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SECOND SERIES.

VOLUME IV.

IN FOUR PARTS.

PARTS I TO III.

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Rear-Admiral Asa Walker, U. S. N.

ASTRONOMICAL DEPARTMENT.

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William S. Eichelberger	*Professor of Mathematics, U. S. N.*
Frank B. Littell	*Professor of Mathematics, U. S. N.*
George A. Hill	*Assistant Astronomer.*
Herbert L. Rice	*Assistant Astronomer.*
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Matt Frederickson	*Computer.*
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Abraham Jablow	*Assistant.*
Etta M. Eaton	*Miscellaneous Computer.*
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ERRATA.

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PAGE xiv, in table, third line, second column: For $3^h\ 57^m\ 44^s.82$ read $3^h\ 56^m\ 44^s.83$.
third column: For $-16^\circ\ 20'\ 52''.48$ read $-16^\circ\ 20'\ 51''.99$.
PAGE 3, No. 29, ninth column: For $57^m\ 45^s.66$ read $56^m\ 45^s.66$.
twelfth column: For $3^h\ 57^m\ 44^s.82$ read $3^h\ 56^m\ 44^s.83$.
thirteenth column: For $16^\circ\ 20'\ 52''.48$ read $16^\circ\ 20'\ 51''.99$.
fourteenth column: For ....read 16° 756.
PAGE 27, No. 49, eleventh column: For VII read VII (B).
thirteenth column: For $15^\circ\ 7'\ 13''.06$ read $15^\circ\ 4'\ 0''.58$.
PAGE 185, No. 115, thirteenth column: For 16° read 14°.
PAGE 236, No. 150, eleventh column: For III (B) read III.
thirteenth column: For $-15^\circ\ 7'\ 13''.92$ read $-15^\circ\ 4'\ 0''.29$.
PAGE 485, No. 27, eleventh column: For $(45)^r.770$ read $44^r.770$.
thirteenth column: For $15^\circ\ 58'\ 45''.37$ read $15^\circ\ 59'\ 4''.59$.
PAGE 485, No. 28, eleventh column: For $(41)^r.360$ read $40^r.360$.
thirteenth column: For $15^\circ\ 53'\ 42''.80$ read $15^\circ\ 54'\ 1''.80$.
PAGE 518, No. 34, eleventh column: For $(44)^r.400$ read $45^r.400$.
thirteenth column: For $15^\circ\ 58'\ 48''.68$ read $15^\circ\ 59'\ 7''.92$.
PAGE 518, No. 35, eleventh column: For $(47)^r.240$ read $48^r.240$.
thirteenth column: For $15^\circ\ 53'\ 44''.42$ read $[15^\circ\ 54'\ 1''.86]$.

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PAGE A 45, No. 38, sixth column: For $-10^s.83$ read $[-10^s.83]$.
PAGE A 47, No. 22, sixth column: For $-\ 9^s.89$ read $[-\ 9^s.89]$.
PAGE A 48, No. 1, sixth column: For $-\ 9^s.72$ read $[-\ 9^s.72]$.
PAGE A 56, No. 33, sixth column: For $-13^s.49$ read $[-13^s.49]$.
PAGE A 67, No. 9, fifth column: For $-\ 0^s.24$ read $-\ 0^s.25$.
sixth column: For $-23^s.70$ read $-23^s.69$.
PAGE A 67, No. 10, fifth column: For $-\ 0^s.22$ read $-\ 0^s.24$.
sixth column: For $-23^s.77$ read $-23^s.75$.
PAGE A 67, No. 11, fifth column: For $-\ 0^s.20$ read $-\ 0^s.22$.
sixth column: For $-\mathbf{23^s.72}$ read $-\mathbf{23^s.70}$.
PAGE A 67, No. 12, fifth column: For $-\ 0^s.20$ read $-\ 0^s.22$.
sixth column: For $-23^s.80$ read $-23^s.78$.
PAGE A 67, No. 13, fifth column: For $-\ 0^s.24$ read $-\ 0^s.26$.
sixth column: For $-23^s.61$ read $-23^s.59$.
PAGE A 81, No. 11, fifth column: For $+\ 0^s.34$ read $+\ 0^s.32$.
sixth column: For $-48^s.65$ read $-48^s.63$.
PAGE A 81, No. 12, fifth column: For $+\ 0^s.47$ read $+\ 0^s.45$.
sixth column: For $-48^s.70$ read $-48^s.68$.
PAGE A 81, No. 13, fifth column: For $+\ 0^s.31$ read $+\ 0^s.30$.
sixth column: For $-48^s.67$ read $-48^s.66$.
PAGE A 81, No. 14, fifth column: For $+\ 0^s.32$ read $+\ 0^s.31$.
sixth column: For $-48^s.67$ read $-48^s.66$.
PAGE A 81, No. 15, fifth column: For $+\ 0^s.52$ read $+\ 0^s.49$.
sixth column: For $-\mathbf{48^s.67}$ read $-\mathbf{48^s.66}$.
eleventh column: For $17^h\ 55^m\ 28^s.85$ read $17^h\ 55^m\ 28^s.83$.
PAGE A 81, No. 16, fifth column: For $+0^s.52$ read $+0^s.49$.
sixth column: For $-\mathbf{48^s.67}$ read $-\mathbf{48^s.66}$.
eleventh column: For $17^h\ 55^m\ 29^s.79$ read $17^h\ 55^m\ 29^s.77$.
PAGE A 81, No. 17, fifth column: For $-2^s.56$ read $-2^s.19$.
sixth column: For $[-49^s.42]$ read $[-49^s.79]$.

ERRATA.

PAGE A 81, No. 18, fifth column: For $+0^{s}.50$ read $+0^{s}.47$.
sixth column: For $-48^{s}.67$ read $-48^{s}.66$.
eleventh column: For $19^{h}\,31^{m}\,11^{s}.98$ read $19^{h}\,31^{m}\,11^{s}.96$.
PAGE A 81, No. 19, fifth column: For $+0^{s}.50$ read $+0^{s}.47$.
sixth column: For $-48^{s}.67$ read $-48^{s}.66$.
eleventh column: For $19^{h}\,31^{m}\,12^{s}.75$ read $19^{h}\,31^{m}\,12^{s}.73$.
PAGE A 81, No. 20, fifth column: For $+0^{s}.47$ read $+0^{s}.44$.
sixth column: For $-48^{s}.67$ read $-48^{s}.66$.
eleventh column: For $19^{h}\,46^{m}\,13^{s}.33$ read $19^{h}\,46^{m}\,13^{s}.31$.
PAGE A 81, No. 21, fifth column: For $+0^{s}.47$ read $+0^{s}.44$.
sixth column: For $-48^{s}.67$ read $-48^{s}.66$.
eleventh column: For $19^{h}\,48^{m}\,33^{s}.59$ read $19^{h}\,48^{m}\,33^{s}.57$.
PAGE A 81, No. 22, fifth column: For $+0^{s}.14$ read $+0^{s}.13$.
sixth column: For $-48^{s}.67$ read $-48^{s}.66$.
PAGE A 81, No. 23, fifth column: For $+0^{s}.30$ read $+0^{s}.28$.
sixth column: For $-48^{s}.66$ read $-48^{s}.64$.
PAGE A 81, No. 24, fifth column: For $+0^{s}.19$ read $+0^{s}.17$.
sixth column: For $-48^{s}.67$ read $-48^{s}.65$.
PAGE A 81, No. 25, fifth column: For $+0^{s}.25$ read $+0^{s}.23$.
sixth column: For $-48^{s}.70$ read $-48^{s}.68$.
PAGE A 87, under Time, ninth line: For $22^{d}\,22^{h}\,0^{m}$ read $16^{d}\,22^{h}\,0^{m}$.
PAGE A 88, No. 12, twelfth column: For ...... read $-1^{s}.68$.
fourteenth column: For ...... read $-9''.6$.
PAGE A 88, No. 26, twelfth column: For ...... read $-1^{s}.66$.
fourteenth column: For ...... read $-9''.5$.
PAGE A 89, No. 14, twelfth column: For ...... read $-1^{s}.62$.
fourteenth column: For ...... read $-9''.3$.
PAGE A 89, No. 36, twelfth column: For ...... read $-1^{s}.60$.
fourteenth column: For ...... read $-9''.3$.
PAGE A 90, No. 18, twelfth column: For ...... read $-1^{s}.45$.
fourteenth column: For ...... read $-8''.8$.
PAGE A 90, No. 40, twelfth column: For ...... read $-1^{s}.43$.
fourteenth column: For ...... read $-8''.6$.
PAGE A 91, No. 26, twelfth column: For ...... read $-1^{s}.33$.
fourteenth column: For ...... read $-8''.0$.
PAGE A 92, No. 3, twelfth column: For ...... read $-1^{s}.21$.
PAGE A 92, No. 41, twelfth column: For ...... read $-1^{s}.10$.
fourteenth column: For ...... read $-6''.4$.
PAGE A 111, No. 3, twelfth column: For ...... read $-4^{s}.42$.
fourteenth column: For ...... read $-2''.5$.
PAGE A 112, No. 14, twelfth column: For ...... read $-4^{s}.43$.
fourteenth column: For ...... read $-2''.3$.
PAGE A 112, No. 26, twelfth column: For ...... read $-4^{s}.43$.
fourteenth column: For ...... read $-2''.3$.
PAGE A 112, No. 38, twelfth column: For ...... read $-4^{s}.44$.
fourteenth column: For ...... read $-2''.2$.
PAGE A 113, No. 31, twelfth column: For ...... read $-4^{s}.42$.
fourteenth column: For ...... read $-2''.0$.
PAGE A 114, No. 24, twelfth column: For ...... read $-4^{s}.37$.
fourteenth column: For ...... read $-1''.9$.
PAGE A 121, No. 2, ninth column: For $-8''.0$ read $-8''.1$.
twelfth column: For ...... read $-5^{s}.03$.
thirteenth column: For $+47^{\circ}\,3'\,21''.4$ read $+47^{\circ}\,3'\,21''.5$.
fourteenth column: For ...... read $-19''.6$.
PAGE A 121, No. 26, twelfth column: For ...... read $-4^{s}.16$.
fourteenth column: For ...... read $-26''.8$.
PAGE A 121, No. 27, twelfth column: For ...... read $-4^{s}.17$.
fourteenth column: For ...... read $-27''.0$.
PAGE A 122, No. 41, twelfth column: For ...... read $-4^{s}.17$.
fourteenth column: For ...... read $-26''.8$.
PAGE A 122, No. 43, twelfth column: For ...... read $-4^{s}.16$.
fourteenth column: For ...... read $-27''.1$.
PAGE A 123, No. 1, twelfth column: For ...... read $-4^{s}.17$.
fourteenth column: For ...... read $-27''.2$.

PAGE A 123, No. 29, twelfth column: For . . . . . . read $-4^{s}.17$.
PAGE A 123, No. 31, twelfth column: For . . . . . . read $-4^{s}.16$.
fourteenth column: For . . . . . . read −27″.2.
PAGE A 123, No. 32, twelfth column: For . . . . . . read $-4^{s}.17$.
fourteenth column: For . . . . . . read −27″.3.
PAGE A 123, No. 36, twelfth column: For . . . . . . read $-5^{s}.11$.
fourteenth column: For . . . . . . read − 21″.6.
PAGE A 124, No. 5, twelfth column: For . . . . . . read $-5^{s}.14$.
fourteenth column: For . . . . . . read −22″.4.
PAGE A 126, No. 8, twelfth column: For . . . . . . read $-5^{s}.22$.
fourteenth column: For . . . . . . read −26″.0.
PAGE A 126, No. 40, twelfth column: For . . . . . . read $-5^{s}.23$.
fourteenth column: For . . . . . . read −26″.8 .
PAGE A 176, No. 11, tenth column: For **24″.4** read **24″.3**.
thirteenth column: For −19° 37′ 11″.3 read −19° 37′ 11″.4.
PAGE A 176, No. 12, tenth column: For **24″.4** read **24″.3**.
thirteenth column: For +20° 8′ 50″.1 read −20° 8′ 50″.2.
PAGE A 176, No. 16, tenth column: For **24″.4** read **24″.3**.
thirteenth column: For +25° 22′ 47″.6 read +25° 22′ 47″.7.
PAGE A 176, under Semidiam., second line: For +15′ 49″.4 read +15′ 49″.3.
under Sum, second line: For +15′ 52″.3 read +15′ 52″.2.
under Semidiam., third line: For −15′ 49″.3 read −15′ 49″.4.
under Sum, third line: For −15′ 46″.5 read −15′ 46″.6.
PAGE A 201, No. 32, twelfth column: For $-0^{s}.17$ read $+0^{s}.17$.
PAGE A 292, sixteenth line, second column: For Br. read B.
PAGE A 294, first line, third column: For — read I.
PAGE A 298, fifth line, tenth column: For −3″.3 read −3″.4.
PAGE A 308, forty-first line, second column: For B. read Br.
PAGE A 320, date of B. D.+46° 4226: For 1801 read 1901.
PAGE A 320, declination of B. D.+46° 4226, first line: For +47° 3′ 1″.8 read +47° 3′ 1″.9.

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PAGE C 6, No. 49, second column: For *ε* Piscium read *e* Piscium.
PAGE C 19, No. 39, second column: For B. D. 37° 151 read B. D. +37° 151.
PAGE C 48, under Adopted Zenith Point Corrections, second line: For 28″.07 read 2′ 28″.07.
PAGE C 90, under *β* Virginis, mean of Circle B, Clamp E.: For 1″.11 read 1″.10.
PAGE C 100, under 21 Cassiopeiæ, mean of Circle B, Clamp W.: For 8″.30 read 8″.29.
PAGE C 120, eighteenth line, sixth column: For 1″.11 read 1″.10.
PAGE C 123, twenty-seventh line, sixth column: For 8″.30 read 8″.29.
PAGE C 126, thirty-first line, eleventh column: For $14^{h}\ 35^{m}\ 11^{s}.395$ read $14^{h}\ 35^{m}\ 11^{s}.396$.

PART I.

TRANSIT CIRCLE OBSERVATIONS

OF THE

SUN, MOON, PLANETS, AND MISCELLANEOUS STARS.

1900–1903.

INTRODUCTION.

This volume contains the transit circle observations of the Sun, Moon, planets, and miscellaneous stars made at the United States Naval Observatory from January 1, 1900, to September 4, 1903. From January 1 to January 16, 1900, the observations were made with the 6-inch transit circle. During this period certain alterations were being made in the piers of the 9-inch transit circle, the floor between the piers, the lanterns for field and microscope illumination, and the supports of the microscopes. From January 23, 1900, to October 25, 1901, the observations were made with the 9-inch transit circle. From October 26, 1901, to September 4, 1903, the observations were made with the 6-inch transit circle. During this last-named period extensive repairs, including the making of a new micrometer and new pivots and the alteration of the system of field and microscope illumination, were being made on the 9-inch transit circle.

Until March 25, 1901, the astronomical work of the Observatory was in charge of the Astronomical Director, Prof. S. J. BROWN, U. S. Navy, under the supervision of the Superintendent, Capt. C. H. DAVIS, U. S. Navy, who at that time assumed direct charge of all this work. Captain DAVIS was succeeded as Superintendent by Capt. (now Rear-Admiral) C. M. CHESTER, U. S. Navy, November 1, 1902.

The 9-inch transit circle was in charge of Prof. A. N. SKINNER until July 30, 1901. By an order of reorganization issued by Superintendent DAVIS, all the work on both transit circles was under the general direction of Prof. A. N. SKINNER, chief of the division of meridian observations, from July 30, 1901, to October 14, 1902, and under the general direction of Prof. W. S. EICHELBERGER, chief of the division of meridian observations, since that time.

PERSONNEL.

These observations were made under the direct supervision of Prof. A. N. SKINNER from January 1, to February 17, 1900; of Prof. W. S. EICHELBERGER from February 17 to September 12, 1900; of Prof. W. S. HARSHMAN from September 12, 1900, to March 28, 1901; of Assistant Astronomer T. I. KING from March 28 to July 30, 1901; and of Prof. F. B. LITTELL from July 30, 1901, to September 4, 1903.

In general, at any given time, the work was carried on by three observers. Due to changes in the personnel, the observers engaged on this work at different times have been Prof. AARON N. SKINNER, U. S. Navy; Prof. MILTON UPDEGRAFF, U. S. Navy; Prof. WILLIAM S. EICHELBERGER, U. S. Navy; Prof. WALTER S.

HARSHMAN, U. S. Navy; Prof. FRANK B. LITTELL, U. S. Navy; Assistant Astronomer THEO I. KING; Assistant Astronomer HERBERT L. RICE, Computer WILLIAM M. BROWN, Computer ERNEST A. BOEGER, Computer GEORGE K. LAWTON, Computer JOHN C. HAMMOND, and Computer EVERETT I. YOWELL.

BUILDINGS AND INSTRUMENTS.

A description of the buildings in which the meridian circles are housed will be found in Publications of the United States Naval Observatory, Second Series, Volume I, page VI.

A detailed description of the PISTOR & MARTINS transit circle will be found in the Washington Observations for 1865. A description of the changes made in this instrument, now known as the 9-inch transit circle, will be found in Publications of the United States Naval Observatory, Second Series, Volume I, page VII, et seq.

A description of the 6-inch transit circle will be found in Publications of the United States Naval Observatory, Second Series, Volume I, page XII, et seq., and a more detailed description in Publications of the United States Naval Observatory, Second Series, Volume III, page D III, et seq.

The chronograph used is a cylinder chronograph designed by Prof. WILLIAM HARKNESS, U. S. Navy, and is regulated by a HIPP spring governor. It has a capacity of two hours.

The standard sidereal clock has been the HOWARD No. 404, except in the intervals noted at the head of TABLE VII. The clock has an eight-day movement, with a DENNISON gravity escapement and mercurial pendulum, and is driven by two weights, one on each side of the case, in an inclosed space separate from that in which the pendulum swings. The clock time is recorded on the chronograph by means of a break circuit, which is broken every second except the sixtieth of each minute. The breaks are effected by a mechanism connected with the arbor of the escapement wheel of the clock.

Previous to October 16, 1901, the clock, HOWARD No. 404, was mounted in the clock room where it was subject to considerable variation of temperature. It was then removed to the clock vault where it has remained ever since From a discussion of the rates of this clock before it was placed in the vault and from experiments after it was placed there its temperature coefficient of about $+0^{s}.06$ per day per degree Fahrenheit was fully demonstrated. As the mercury jars were too short to permit complete temperature compensation a new pendulum with longer jars was purchased from the makers early in 1903. Upon being set up and tested by a mirror attached to the pendulum in the plane of its vibration, as suggested by Prof. SIMON NEWCOMB in the Astronomische Nachrichten Nr. 1940, the action of the pendulum was found to be so irregular that it was sent to the makers for readjustment. However, they did not succeed in overcoming the difficulty, which was finally corrected by Mr. H. C. CLEVE, the instrument maker of the Observatory. Experiments having in view the compensation of this pendulum for temperature were in progress when the new RIEFLER clock with nickel-steel compensated pendulum, and inclosed in an air-tight glass case, arrived. This clock was immediately installed and was used as the standard clock of the Observatory after September 1, 1903.

Clock vault.—The following is taken from the Superintendent's annual report for the year ending June 30, 1901:

> During January and February [1901] a clock vault, 8 feet square and 7 feet high, was built in the basement of the observer's room adjacent to the building which shelters the 6-inch transit circle. The construction of the vault is intended to be such that it will be practicable to keep the temperature within very nearly constant throughout the year. A 9-inch brick wall incloses a wooden house of dimensions above stated, with an air space of 1 foot, which contains hot-water pipes for heating. The whole is roofed over with boards inclosing a 6-inch layer of asbestos wool. The vault contains three brick piers for clocks and one small pier which may be used in mounting a pendulum apparatus for testing the minor irregularities of clock rates. Triple doors are provided and means for slow ventilation.

Heat for the hot water heating system is supplied by a small gas stove in the outside basement and is regulated by a thermostat in the inclosing air chamber. When the heating system has worked at its best it has been possible to keep the weekly variation of temperature within about 2° Fahrenheit. A RICHARD thermograph in the vault records the temperature continuously.

Barometers and thermometers, and thermometer shelters.—The barometer, GREEN No. 1970, with vernier graduated to 0.01 inch has been used in connection with the 9-inch transit circle and the barometer, GREEN No. 2876, with vernier graduated to 0.002 of an inch, in connection with the 6-inch transit circle. Each is of the cistern form, and each is furnished with an attached thermometer. Barometer, GREEN No. 2876, is also provided with a metric scale, but the English scale only has been used in this work. The barometers for both instruments are mounted on the north sides of the piers provided for the counting clocks, with the tops of the mercury columns at a height convenient to be read by an observer standing on the floor. The external thermometer in use was GREEN No. 3881, graduated to degrees, except from October 25 to October 28, 1901 when GREEN No. 3925 was used. Each thermometer shelter for the external thermometer is a box of louvre work about 2 feet square, 2.75 feet high, attached to the outside of the north wall of the observing room about 10 feet above the ground. The thermometer may be read by opening a door in the wall of the observing room. This shelter has also contained during the entire period a RICHARD thermograph, the record of which is sometimes used to supplement incomplete temperature observations. When the Sun is north of the equator, it shines on the shelter early in the morning and late in the afternoon, causing the thermometer to read too high. The corrections to the barometers and thermometers have been determined by the United States Weather Bureau, and have been applied when necessary.

METHODS OF OBSERVATION AND REDUCTION.

The observations in both right ascension and declination are strictly differential, depending upon the star places of the American Ephemeris. In connection with the observations of the Sun and the interior planets the general scheme was to observe four stars in the forenoon and four in the afternoon. For a single object at night four stars were selected with the planet or star whose position was desired in the middle of the group. If the positions of several objects were to be determined and these objects were somewhat scattered, two or more groups were observed so as to properly embrace the period desired.

Right ascensions.—During the last two years it was the custom to observe the azimuth, level, and collimation constants at the beginning of the day observations, before the Sun, and at the end of the day observations; also at the beginning and end of the night observations. Frequently it has been found necessary to assume that one or more of the constants has varied with the time. In the earlier part of the work the constants were not determined so frequently.

The azimuth constant has been determined from the north meridian mark, whose azimuth is deduced from observations of circumpolar stars made on the average about twice a week. The azimuth of the mark has usually been determined in periods of from one to two months and has been considered constant during each period. The azimuths of the mark used from November 15, 1901, to October 3, 1902, were those adopted by Professor UPDEGRAFF from observations by himself and Mr. HAMMOND in connection with their general star work on this instrument. The formula used in reducing the observations on the mark is as follows:

Let A_m = Azimuth of mark, positive when west of north.
D_m = Distance in micrometer revolutions of mark west of c_3 as seen in the field.
C_3 = Collimation correction of c_3.
$= \frac{S+N}{2} M$ which is explained under collimation constant.
M = Value in seconds of time of one revolution of right ascension micrometer screw.
Z = Zenith distance north of mark.
$= 93° 38'$ for the 9-inch transit circle.
$= 92° 22'$ for the 6-inch transit circle.
a = Azimuth of instrument.
b = Level of instrument.

Then $A_m = a - \frac{D_m M + b \cos Z + C_3}{\sin Z}$

$A_m = a - [0.641(2 D_m + S + N - 0.100 b)]$ for the 9-inch.
$A_m = a - [0.951(2 D_m + S + N - 0.043 b)]$ for the 6-inch.
Or $A_m = a - K$ where K stands for the quantity in the brackets.

The quantity K is computed for each measure on the mark and furnishes a convenient means of passing from the azimuth of the instrument to that of the mark, or vice versa, by means of the last equation.

The collimation constant has been determined by means of the horizontal collimators, the south collimator having been adjusted so that one thread is vertical, and the north collimator so that the image of this vertical thread bisects the angle between the pair of intersecting north collimator threads.

The collimation constant is derived from the measures on these collimators as follows:

Let c = Collimation constant.
S = Distance in micrometer revolutions of the vertical thread of the south collimator east of c_3.
N = Distance in micrometer revolutions of the intersection of the threads of the north collimator east of c_3.
M = Value in seconds of time of one revolution of the right ascension micrometer screw.
i = Reduction of c_3 to the mean of the standard set of threads.

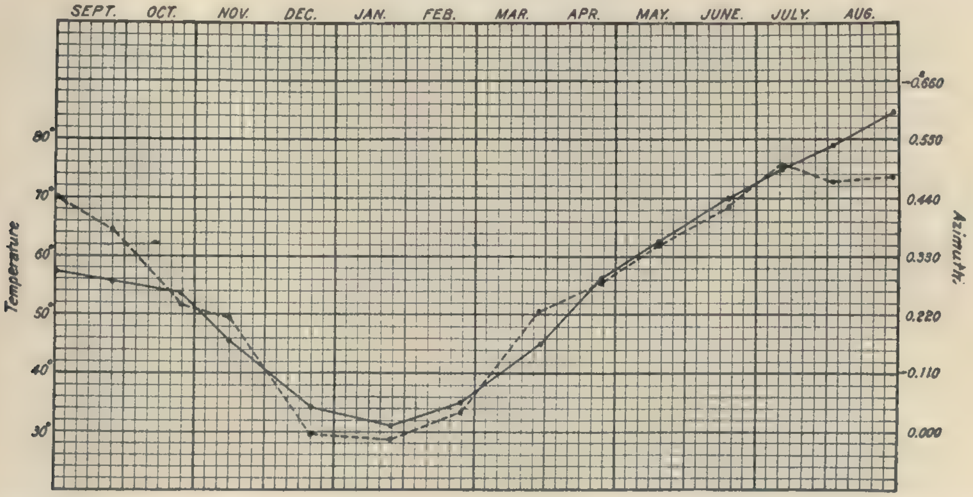
$$c = \frac{S+N}{2} M - i - 0.021 \cos \varphi.$$

For convenience in computation the diurnal aberration $-0.021 \cos \varphi$ is combined with the collimation constant.

The level constant has been determined by means of the hanging spirit levels. The levels have also been determined from the nadir observations, and these values have been used as a check on the values adopted, and as a test of the reality of changes of level indicated by the hanging level determinations.

In working with the 6-inch transit circle it soon became apparent that while the variations in level and azimuth were much less than before the substitution of the brick for the stone piers, they were considerably greater than they were during the last period covered by the discussion of Professor UPDEGRAFF, see Publications of the United States Naval Observatory, Second Series, Volume III, page D XXVIII, et seq. A discussion of all the constants for the year ending September 4, 1903, was therefore undertaken by Professor LITTELL to discover whether any relation could be established between these variations and changes of temperature. As a result of this discussion it was found that the collimation constant was very stable and a variation of $+0^{s}.0007$ for each increase of 1 degree Fahrenheit in temperature was well established. The azimuth constant showed a regular annual variation of $-0^{s}.011$ per degree Fahrenheit, as exhibited in the accompanying diagram. At the same time it showed a diurnal variation of $+0^{s}.005$ per degree Fahrenheit. Probably the annual variation is due to slow temperature changes in the brick piers and their bases, while the diurnal variation is probably due to changes of temperature in the steel microscope bearers which support the wyes of the instrument. The variations in the level constant have been of about the same order of magnitude as those of the azimuth constant, but it has not been possible to connect them with changes of temperature.

Diagram Showing Annual Variation of Azimuth of 6-inch Transit Circle, September, 1902, to September, 1903.



The broken line represents the temperature; the solid line the azimuth. Each point plotted is the mean of thirty observations.

Each clock correction and rate has been determined from the work of a single observer.

Declinations.—The circle was always set on a 2′ division, so that the four microscope readings would be practically the same for all settings, thus eliminating any small error of runs. The position of the object in the field was measured with the zenith distance micrometer. Usually four bisections of the object were made at the vertical threads I, II, VI, and VII.

In general the bisection is made by causing the image of the object to apparently bisect the space between the double threads. Occasionally, however, observations have been made by bisecting the image of the object with the single threads A or B. On account of the closeness of the double threads of the 6-inch transit circle, it was sometimes impossible to see stars near the limit of visibility in the daytime when they were between the double threads, though it was possible to obtain fairly good observations by bisecting with a single thread. Consequently the custom was introduced of bisecting such objects with one of the double threads. For this reason the double threads have been distinguished as D_1 and D_2. The corrections to be applied in using these various threads are given in Table III.

The inclination of the double threads was determined by observations at I and VII of stars not far removed from the equator. The intervals of the other zenith distance threads were measured at I and VII by means of coincidences with one of the fixed horizontal threads.

Circle A was used on the 9-inch transit circle and Circle A on the 6-inch.

The mean equator point derived from the several ephemeris stars observed was usually adopted for reducing the observations in each observing period, but when there were indications of a change interpolated values were used. Since the constants have been taken more frequently, interpolated values have been used only when the change in the equator point derived from stars has been confirmed by a corresponding change in the nadir determined by mercury reflection. The probable errors deduced from a discussion of the observations are as follows:

	Nine-inch Transit Circle.		Six-inch Transit Circle.	
	Night.	Day.	Night.	Day.
	″	″	″	″
Probable error of equator point derived from one star	0.29	0.36	0.46	0.50
Probable error of one observed declination, not including division error	0.22	0.27	0.22	0.30

Evidently the newly divided circles of the 6-inch transit circle are affected by very considerable errors of division, apparently of about the same order as those of the original divisions. For the original graduation of Circle A, Professor Updegraff obtained the value 0″.276 for the probable error due to division for the mean of four microscopes, see Publications of the United States Naval Observatory, Second Series, Volume III, page D LI.

No corrections for flexure or division error have been applied.

An investigation of the division errors of Circle A, 9-inch transit circle, will be found in the Washington Observations for 1865, Appendix. No determination has been made of the division errors of the 6-inch transit circle. A determination of the flexure of the 9-inch transit circle will be found in Publications of the United States Naval Observatory, Second Series, Volume I, page XVII.

The horizontal flexure of the 6-inch transit circle was measured several times during 1901 and 1902 by Professor UPDEGRAFF and Mr. HAMMOND. The mean of the several values obtained is 0″.330. The effect of the flexure is such that the instrumental zenith distances are too small.

At the end of this introduction will be found the following tables:

TABLE I. The equatorial thread intervals.

TABLE II. The adopted values of the readings of the zenith distance micrometer.

TABLE III. The corrections for inclination and distance of the zenith distance threads. For the zenith distance threads A, B, D_1, and D_2 the table gives the reduction to the double threads combined with the correction for the inclination of the double threads.

TABLE IV. The adopted azimuth of the north meridian mark.

TABLE V. The corrections to the semidiameters of the Sun given in the American Ephemeris, obtained from the mean of all the measures made by each observer. The number of observations is indicated by the subscript figures. Incomplete observations of the Sun are corrected by means of this table.

TABLE VI. The adopted values of the collimation, level, and azimuth constants. The column headed *Sidereal Hour* gives the interval for which the adopted values of the constants were used, or the time at which the value of the constant was determined when interpolated values are to be used.

TABLE VI a. The observed values of the azimuth constant of the 6-inch transit circle during January, 1900.

TABLE VII. The adopted corrections and rates of the standard sidereal clock.

TABLE VIII. The equator points derived from observations of ephemeris stars and the zenith point corrections from nadir observations.

TABLE IX. The number of observations made by each observer and the periods during which the observers were engaged in this work.

EXPLANATION OF THE PRINTED OBSERVATIONS.

The first column gives the number on the page for convenience of reference.

The second column gives the astronomical date, the designation of the observer, and the name of the object. The day is assumed to commence with the transit of the Sun. The explanation of the designation of the observer is as follows:

B. =E. A. BOEGER.
Br. =W. M. BROWN.
Ei. =W. S. EICHELBERGER.
Hd. =J. C. HAMMOND.
Hh. =W. S. HARSHMAN.
K. =T. I. KING.
La. =G. K. LAWTON.
L. =F. B. LITTELL.
R. =H. L. RICE.
S. =A. N. SKINNER.
U. =M. UPDEGRAFF.
Y. =E. I. YOWELL.

The third column gives the number of threads over which transits were taken.

The fourth column gives the mean of the times of transit over the threads observed, the hour being omitted, reduced to the position of the mean of the threads

b_1 to d_3 from January 1, 1900, to October 25, 1901, and to the mean of the threads b_2 to d_2 from October 25, 1901, to September 4, 1903.

The fifth column gives the value of $Aa+Bb+Cc$ in MAYER'S formula for reducing transit observations. In the case of the Moon this column includes also the correction for the motion of the Moon while passing from the mean thread to the true meridian.

The sixth column gives the clock correction, including both the observed clock corrections of the ephemeris stars and the adopted clock corrections for the objects whose positions are to be determined, which latter are printed in heavy-face type. Quantities inclosed in brackets were not used in deriving the clock rates.

The seventh column gives the circle reading, the seconds being the mean of the readings of four microscopes, unless otherwise specified at the foot of the page.

The eighth column gives, unless otherwise noted at the bottom of the page, the mean of the readings of the zenith distance micrometer for the bisections made at threads I, II, VI, and VII.

The ninth column gives the correction for refraction computed from COFFIN'S modification of BESSEL'S refraction tables, originally published in the Washington Observations for 1845. These tables were reedited by Prof. JOHN R. EASTMAN, U. S. Navy, and published in 1887. The meteorological record will be found at the lower left-hand corner of each page. When necessary, the readings of the thermometers and barometers have been corrected. These corrections have been furnished through the courtesy of Prof. C. F. MARVIN, of the United States Weather Bureau.

The tenth column gives the seconds of the equator points, including both the seconds of the observed equator points of the ephemeris stars and the seconds of the adopted equator points of the objects whose positions are to be determined, which latter are printed in heavy-face type. Quantities not used in deriving the adopted equator points are inclosed in brackets. The degree and minute may be found in TABLE VIII.

The eleventh column gives the hour and minute of the apparent right ascension of each ephemeris star for convenience of reference, and for the other objects the deduced right ascension, or the sum of the quantities contained in the fourth, fifth, and sixth columns.

The twelfth column gives the correction necessary to reduce the right ascension to the center of the object observed and the reduction to the beginning of the year for miscellaneous stars.

The thirteenth column gives for each object whose position is required the sum of the following six quantities; those contained in the seventh, ninth, and eleventh columns, that in the eighth column transformed into arc by means of TABLE II, the reduction to meridian, and the correction for inclination and distance from TABLE III. In connection with the unsymmetrical observations of the Sun, Moon, and planets the correction for motion is included.

The fourteenth column gives the correction necessary to reduce the declinations of miscellaneous stars to the beginning of the year. In the case of observations of the Sun, Moon, and planets the details of the corrections in declination for parallax, semidiameter, and defective illumination are found in the lower right-hand corner of each page.

TABLE I.—*The Equatorial Thread Intervals.*

Vertical Thread.		NINE-INCH TRANSIT CIRCLE.		SIX-INCH TRANSIT CIRCLE.			
		Jan. 22, 1900, to Nov. 12, 1900.	Nov. 19, 1900, to Oct. 25, 1901.	Jan. 1, 1900, to Jan. 16, 1900.	Oct. 25, 1901, to Dec. 10, 1901.	Dec. 10, 1901, to Jan. 16, 1902.	Jan. 16. 1902, to Feb. 14, 1902.
		s	s	s	s	s	s
I		+37.090	+37.046	+36.291	+35.9	+35.9	+35.9
II		24.714	24.682	23.832	23.9	24.0	23.9
III	b_1	12.389	12.356	11.760	12.0	12.0	12.0
	b_2	9.727	9.775	9.323	9.397	9.364	9.397
	b_3	8.227	8.237	7.565	7.768	7.771	7.768
	c_1	4.163	4.143	4.175	4.188	4.188	4.188
	c_2	2.090	+ 2.119	+ 2.143	+ 2.080	2.103	+ 2.080
IV	c_3	+ 0.032	− 0.032	− 0.094	− 0.009	+ 0.009	− 0.009
	c_4	− 2.119	2.090	2.167	2.103	− 2.080	2.103
	c_5	4.143	4.163	4.166	4.188	4.188	4.188
	d_1	8.237	8.227	7.280	7.771	7.768	7.771
	d_2	9.775	9.727	9.162	9.364	9.397	9.364
V	d_3	12.356	12.389	12.095	12.0	12.0	12.0
VI		24.682	24.714	24.702	24.0	23.9	24.0
VII		−37.046	−37.090	−36.043	−35.9	−35.9	−35.9

Vertical Thread.		SIX-INCH TRANSIT CIRCLE.				
		Feb. 17, 1902, to Apr. 16, 1902.	Apr. 17, 1902, to June 4, 1902.	June 4, 1902, to Aug. 27, 1902.	Aug. 27, 1902, to Oct. 3, 1902.	Oct. 5, 1902, to Sept. 4, 1903.
		s	s	s	s	s
I		+35.9	+35.9	+35.9	+35.9	+35.9
II		24.0	23.9	24.0	23.9	24.0
III	b_1	12.0	12.0	12.0	12.0	12.0
	b_2	9.364	9.397	9.364	9.397	9.364
	b_3	7.771	7.768	7.771	7.768	7.771
	c_1	4.188	4.188	4.188	4.188	4.188
	c_2	2.103	+ 2.080	2.103	+ 2.080	2.103
IV	c_3	+ 0.009	− 0.009	+ 0.009	− 0.009	+ 0.009
	c_4	− 2.080	2.103	− 2.080	2.103	− 2.080
	c_5	4.188	4.188	4.188	4.188	4.188
	d_1	7.768	7.771	7.768	7.771	7.768
	d_2	9.397	9.364	9.397	9.364	9.397
V	d_3	12.0	12.0	12.0	12.0	12.0
VI		23.9	24.0	23.9	24.0	23.9
VII		−35.9	−35.9	−35.9	−35.9	−35.9

TABLE II.—*The Adopted Values of the Readings of the Zenith Distance Micrometer.*

SIX-INCH TRANSIT CIRCLE.

January 1 to January 16, 1900, and October 25, 1901, to September 4, 1903.

One revolution of screw = 28″.4941.

	2′	3′	4′	5′	6′	7′
″	r	r	r	r	r	r
0	22.894	25.000	27.106	29.211	31.317	33.423
1	22.929	25.035	27.141	29.246	31.352	33.458
2	22.964	25.070	27.176	29.282	31.387	33.493
3	23.000	25.105	27.211	29.317	31.422	33.528
4	23.035	25.140	27.246	29.352	31.457	33.563
5	23.070	25.175	27.281	29.387	31.493	33.598
6	23.105	25.211	27.316	29.422	31.528	33.633
7	23.140	25.246	27.351	29.457	31.563	33.668
8	23.175	25.281	27.386	29.492	31.598	33.704
9	23.210	25.316	27.422	29.527	31.633	33.739
10	23.245	25.351	27.457	29.562	31.668	33.774
11	23.280	25.386	27.492	29.597	31.703	33.809
12	23.315	25.421	27.527	29.633	31.738	33.844
13	23.351	25.456	27.562	29.668	31.773	33.879
14	23.386	25.491	27.597	29.703	31.808	33.914
15	23.421	25.526	27.632	29.738	31.844	33.949
16	23.456	25.562	27.667	29.773	31.879	33.984
17	23.491	25.597	27.702	29.808	31.914	34.019
18	23.526	25.632	27.737	29.843	31.949	34.055
19	23.561	25.667	27.773	29.878	31.984	34.090
20	23.596	25.702	27.808	29.913	32.019	34.125
21	23.631	25.737	27.843	29.948	32.054	34.160
22	23.666	25.772	27.878	29.983	32.089	34.195
23	23.701	25.807	27.913	30.019	32.124	34.230
24	23.737	25.842	27.948	30.054	32.159	34.265
25	23.772	25.877	27.983	30.089	32.194	34.300
26	23.807	25.912	28.018	30.124	32.230	34.335
27	23.842	25.948	28.053	30.159	32.265	34.370
28	23.877	25.983	28.088	30.194	32.300	34.405
29	23.912	26.018	28.123	30.229	32.335	34.441
30	23.947	26.053	28.159	30.264	32.370	34.476
31	23.982	26.088	28.194	30.299	32.405	34.511
32	24.017	26.123	28.229	30.334	32.440	34.546
33	24.052	26.158	28.264	30.370	32.475	34.581
34	24.088	26.193	28.299	30.405	32.510	34.616
35	24.123	26.228	28.334	30.440	32.545	34.651
36	24.158	26.263	28.369	30.475	32.581	34.686
37	24.193	26.299	28.404	30.510	32.616	34.721
38	24.228	26.334	28.439	30.545	32.651	34.756
39	24.263	26.369	28.474	30.580	32.686	34.792
40	24.298	26.404	28.510	30.615	32.721	34.827
41	24.333	26.439	28.545	30.650	32.756	34.862
42	24.368	26.474	28.580	30.685	32.791	34.897
43	24.403	26.509	28.615	30.720	32.826	34.932
44	24.438	26.544	28.650	30.756	32.861	34.967
45	24.474	26.579	28.685	30.791	32.896	35.002
46	24.509	26.614	28.720	30.826	32.931	35.037
47	24.544	26.649	28.755	30.861	32.967	35.072
48	24.579	26.685	28.790	30.896	33.002	35.107
49	24.614	26.720	28.825	30.931	33.037	35.142
50	24.649	26.755	28.860	30.966	33.072	35.178
51	24.684	26.790	28.896	31.001	33.107	35.213
52	24.719	26.825	28.931	31.036	33.142	35.248
53	24.754	26.860	28.966	31.071	33.177	35.283
54	24.789	26.895	29.001	31.107	33.212	35.318
55	24.825	26.930	29.036	31.142	33.247	35.353
56	24.860	26.965	29.071	31.177	33.282	35.388
57	24.895	27.000	29.106	31.212	33.318	35.423
58	24.930	27.036	29.141	31.247	33.353	35.458
59	24.965	27.071	29.176	31.282	33.388	35.493
60	25.000	27.106	29.211	31.317	33.423	35.528

TABLE II.—*The Adopted Values of the Readings of the Zenith Distance Micrometer*—Continued.

NINE-INCH TRANSIT CIRCLE.

January 22 to September 8, and September 18 to September 22, 1900.

Mean value of one revolution of screw=19″.16.*

Rev.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″
30	0 0.00	0 1.92	0 3.83	0 5.75	0 7.67	0 9.58	0 11.50	0 13.41	0 15.33	0 17.25
31	0 19.16	0 21.08	0 22.99	0 24.91	0 26.82	0 28.73	0 30.65	0 32.56	0 34.48	0 36.39
32	0 38.31	0 40.22	0 42.13	0 44.05	0 45.96	0 47.87	0 49.78	0 51.70	0 53.61	0 55.52
33	0 57.43	0 59.34	1 1.25	1 3.16	1 5.07	1 6.98	1 8.89	1 10.80	1 12.71	1 14.62
34	1 16.53	1 18.44	1 20.35	1 22.26	1 24.17	1 26.08	1 27.99	1 29.89	1 31.80	1 33.71
35	1 35.62	1 37.52	1 39.43	1 41.34	1 43.24	1 45.15	1 47.06	1 48.96	1 50.87	1 52.78
36	1 54.68	1 56.59	1 58.49	2 0.40	2 2.30	2 4.20	2 6.11	2 8.01	2 9.92	2 11.82
37	2 13.72	2 15.62	2 17.53	2 19.43	2 21.33	2 23.23	2 25.13	2 27.04	2 28.94	2 30.84
38	2 32.74	2 34.64	2 36.54	2 38.44	2 40.34	2 42.24	2 44.14	2 46.04	2 47.94	2 49.84
39	2 51.73	2 53.63	2 55.53	2 57.43	2 59.33	3 1.23	3 3.12	3 5.02	3 6.92	3 8.82
40	3 10.72	3 12.61	3 14.51	3 16.41	3 18.31	3 20.20	3 22.10	3 24.00	3 25.90	3 27.80
41	3 29.70	3 31.59	3 33.49	3 35.39	3 37.29	3 39.19	3 41.09	3 42.99	3 44.89	3 46.79
42	3 48.70	3 50.60	3 52.50	3 54.40	3 56.31	3 58.21	4 0.12	4 2.02	4 3.93	4 5.83
43	4 7.74	4 9.64	4 11.55	4 13.46	4 15.37	4 17.28	4 19.19	4 21.10	4 23.01	4 24.92
44	4 26.84	4 28.75	4 30.66	4 32.58	4 34.49	4 36.41	4 38.33	4 40.24	4 42.16	4 44.08
45	4 46.00	4 47.91	4 49.83	4 51.75	4 53.67	4 55.59	4 57.52	4 59.44	5 1.36	5 3.28
46	5 5.20	5 7.13	5 9.05	5 10.98	5 12.90	5 14.82	5 16.75	5 18.68	5 20.60	5 22.53
47	5 24.45	5 26.38	5 28.31	5 30.24	5 32.16	5 34.09	5 36.02	5 37.95	5 39.88	5 41.81
48	5 43.74	5 45.67	5 47.60	5 49.53	5 51.47	5 53.40	5 55.33	5 57.26	5 59.19	6 1.13
49	6 3.06	6 4.99	6 6.93	6 8.86	6 10.79	6 12.73	6 14.66	6 16.60	6 18.53	6 20.47
50	6 22.40	6 24.34	6 26.27	6 28.20	6 30.14	6 32.07	6 34.01	6 35.94	6 37.87	6 39.81
51	6 41.74	6 43.67	6 45.60	6 47.54	6 49.47	6 51.40	6 53.33	6 55.26	6 57.20	6 59.13
52	7 1.06	7 2.99	7 4.92	7 6.85	7 8.78	7 10.71	7 12.64	7 14.57	7 16.50	7 18.42
53	7 20.35	7 22.28	7 24.21	7 26.14	7 28.07	7 29.99	7 31.92	7 33.85	7 35.77	7 37.70
54	7 39.63	7 41.55	7 43.48	7 45.40	7 47.33	7 49.26	7 51.18	7 53.10	7 55.03	7 56.95
55	7 58.88	8 0.80	8 2.73	8 4.65	8 6.57	8 8.50	8 10.42	8 12.34	8 14.26	8 16.18
56	8 18.11	8 20.03	8 21.95	8 23.87	8 25.79	8 27.71	8 29.63	8 31.55	8 33.47	8 35.39
57	8 37.31	8 39.23	8 41.15	8 43.07	8 44.99	8 46.90	8 48.82	8 50.74	8 52.66	8 54.58
58	8 56.50	8 58.42	9 0.33	9 2.25	9 4.17	9 6.09	9 8.00	9 9.92	9 11.83	9 13.75
59	9 15.66	9 17.58	9 19.49	9 21.41	9 23.32	9 25.24	9 27.15	9 29.06	9 30.98	9 32.89

September 17, 1900.

One revolution of screw=19″.186.

Rev.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
44	4 28.60	4 30.52	4 32.44	4 34.36	4 36.28	4 38.20	4 40.12	4 42.03	4 43.95	4 45.87
45	4 47.79	4 49.71	4 51.63	4 53.55	4 55.46	4 57.38	4 59.30	5 1.22	5 3.14	5 5.06
46	5 6.98	5 8.89	5 10.81	5 12.73	5 14.65	5 16.57	5 18.49	5 20.41	5 22.32	5 24.24
47	5 26.16	5 28.08	5 30.00	5 31.92	5 33.84	5 35.76	5 37.67	5 39.59	5 41.51	5 43.43

*A worn condition of the screw made necessary the adoption of a variable value of one revolution of screw.

TABLE II.—*The Adopted Values of the Readings of the Zenith Distance Micrometer*—Continued.

NINE-INCH TRANSIT CIRCLE.

	September 23, 1900, to July 21, 1901. One revolution of screw=19″.1782.				July 28, 1901, to October 25, 1901. One revolution of screw=19″.1742.			
	3′	4′	5′	6′	3′	4′	5′	6′
″	r	r	r	r	r	r	r	r
0	39.386	42.514	45.643	48.771	39.388	42.517	45.646	48.775
1	39.438	42.566	45.695	48.823	39.440	42.569	45.698	48.827
2	39.490	42.618	45.747	48.876	39.492	42.621	45.750	48.880
3	39.542	42.671	45.799	48.928	39.544	42.673	45.802	48.932
4	39.594	42.723	45.851	48.980	39.596	42.725	45.855	48.984
5	39.646	42.775	45.903	49.032	39.648	42.778	45.907	49.036
6	39.699	42.827	45.956	49.084	39.701	42.830	45.959	49.088
7	39.751	42.879	46.008	49.136	39.753	42.882	46.011	49.140
8	39.803	42.931	46.060	49.188	39.805	42.934	46.063	49.192
9	39.855	42.983	46.112	49.241	39.857	42.986	46.115	49.245
10	39.907	43.036	46.164	49.293	39.909	43.038	46.168	49.297
11	39.959	43.088	46.216	49.345	39.961	43.091	46.220	49.349
12	40.011	43.140	46.268	49.397	40.013	43.143	46.272	49.401
13	40.064	43.192	46.321	49.449	40.066	43.195	46.324	49.453
14	40.116	43.244	46.373	49.501	40.118	43.247	46.376	49.505
15	40.168	43.296	46.425	49.553	40.170	43.299	46.428	49.558
16	40.220	43.348	46.477	49.606	40.222	43.351	46.480	49.610
17	40.272	43.401	46.529	49.658	40.274	43.403	46.533	49.662
18	40.324	43.453	46.581	49.710	40.326	43.456	46.585	49.714
19	40.376	43.505	46.633	49.762	40.379	43.508	46.637	49.766
20	40.428	43.557	46.686	49.814	40.431	43.560	46.689	49.818
21	40.481	43.609	46.738	49.866	40.483	43.612	46.741	49.870
22	40.533	43.661	46.790	49.918	40.535	43.664	46.793	49.923
23	40.585	43.713	46.842	49.971	40.587	43.716	46.846	49.975
24	40.637	43.766	46.894	50.023	40.639	43.768	46.898	50.027
25	40.689	43.818	46.946	50.075	40.691	43.821	46.950	50.079
26	40.741	43.870	46.998	50.127	40.744	43.873	47.002	50.131
27	40.793	43.922	47.051	50.179	40.796	43.925	47.054	50.183
28	40.846	43.974	47.103	50.231	40.848	43.977	47.106	50.236
29	40.898	44.026	47.155	50.283	40.900	44.029	47.158	50.288
30	40.950	44.078	47.207	50.336	40.952	44.081	47.211	50.340
31	41.002	44.131	47.259	50.388	41.004	44.134	47.263	50.392
32	41.054	44.183	47.311	50.440	41.057	44.186	47.315	50.444
33	41.106	44.235	47.363	50.492	41.109	44.238	47.367	50.496
34	41.158	44.287	47.416	50.544	41.161	44.290	47.419	50.548
35	41.211	44.339	47.468	50.596	41.213	44.342	47.471	50.601
36	41.263	44.391	47.520	50.648	41.265	44.394	47.524	50.653
37	41.315	44.443	47.572	50.701	41.317	44.446	47.576	50.705
38	41.367	44.496	47.624	50.753	41.369	44.499	47.628	50.757
39	41.419	44.548	47.676	50.805	41.422	44.551	47.680	50.809
40	41.471	44.600	47.728	50.857	41.474	44.603	47.732	50.861
41	41.523	44.652	47.781	50.909	41.526	44.655	47.784	50.914
42	41.576	44.704	47.833	50.961	41.578	44.707	47.836	50.966
43	41.628	44.756	47.885	51.013	41.630	44.759	47.889	51.018
44	41.680	44.808	47.937	51.066	41.682	44.812	47.941	51.070
45	41.732	44.861	47.989	51.118	41.735	44.864	47.993	51.122
46	41.784	44.913	48.041	51.170	41.787	44.916	48.045	51.174
47	41.836	44.965	48.093	51.222	41.839	44.968	48.097	51.226
48	41.888	45.017	48.146	51.274	41.891	45.020	48.149	51.279
49	41.941	45.069	48.198	51.326	41.943	45.072	48.202	51.331
50	41.993	45.121	48.250	51.378	41.995	45.124	48.254	51.383
51	42.045	45.173	48.302	51.431	42.047	45.177	48.306	51.435
52	42.097	45.226	48.354	51.483	42.100	45.229	48.358	51.487
53	42.149	45.278	48.406	51.535	42.152	45.281	48.410	51.539
54	42.201	45.330	48.458	51.587	42.204	45.333	48.462	51.592
55	42.253	45.382	48.511	51.639	42.256	45.385	48.514	51.644
56	42.306	45.434	48.563	51.691	42.308	45.437	48.567	51.696
57	42.358	45.486	48.615	51.743	42.360	45.490	48.619	51.748
58	42.410	45.538	48.667	51.796	42.413	45.542	48.671	51.800
59	42.462	45.591	48.719	51.848	42.465	45.594	48.723	51.852
60	42.514	45.643	48.771	51.900	42.517	45.646	48.775	51.904

TABLE III.—*The Inclination and Distance of the Zenith Distance Threads.*

Vertical Thread.	Correction for Double Threads.	Correction for Thread A.	Correction for Thread B.
SIX-INCH TRANSIT CIRCLE.			
January 1 to January 16, 1900.			
	″	′ ″	
I	−0.01	+4 51.40	.....
II	0.00	51.84	.....
III	0.00	52.27	.....
IV	0.00	52.70	.....
V	0.00	53.13	.....
VI	+0.01	53.58	.....
VII	+0.01	+4 53.98	.....
NINE-INCH TRANSIT CIRCLE.			
January 22 to September 7, 1900.			
	″	′ ″	′ ″
I	+1.93	+3 17.00	−3 11.26
II	1.29	16.28	11.97
III	+0.64	15.54	12.69
IV	0.00	14.82	13.40
V	−0.64	14.10	14.10
VI	1.29	13.36	14.82
VII	−1.93	+3 12.64	−3 15.53
September 16 to September 20, 1900.			
	″	′ ″	
I	+2.26	+3 17.33	.....
II	1.51	16.49	.....
III	+0.75	15.65	.....
IV	0.00	14.81	.....
V	−0.75	13.97	.....
VI	1.51	13.13	.....
VII	−2.26	+3 12.29	.....

Vertical Thread.	Correction for Double Threads.	Correction for Thread A.
NINE-INCH TRANSIT CIRCLE—Continued.		
September 23 to November 12, 1900.		
	″	′ ″
I	+1.97	+3 16.90
II	1.31	16.19
III	+0.66	15.48
IV	0.00	14.76
V	−0.66	14.04
VI	1.31	13.33
VII	−1.97	+3 12.61
November 19 to December 18, 1900.		
	″	′ ″
I	−2.09	+3 12.49
II	1.39	13.25
III	−0.70	14.00
IV	0.00	14.76
V	+0.70	15.51
VI	1.39	16.26
VII	+2.09	+3 17.02
December 19, 1900, to October 25, 1901.		
	″	′ ″
I	−2.26	+3 12.38
II	1.50	13.18
III	−0.75	13.97
IV	0.00	14.76
V	+0.75	15.55
VI	1.50	16.35
VII	+2.26	+3 17.15

TABLE III.—*The Inclination and Distance of the Zenith Distance Threads*—Continued.

Vertical Thread.	Correction for Double Threads.	Vertical Thread.	Correction for Double Threads.	Correction for Thread D_1.	Vertical Thread.	Correction for Double Threads.	Correction for Thread D_1.	Correction for Thread D_2.
SIX-INCH TRANSIT CIRCLE.								
October 25 to December 10, 1901.		March 29 to April 16, 1902.			October 5 to October 16, 1902.			
	″		″			″	″	″
I	−0.16	I	+0.18	....	I	+0.18	+2.40	−2.04
II	0.11	II	0.12	....	II	0.12	2.37	2.13
III	−0.05	III	+0.06	....	III	+0.06	2.37	2.25
IV	0.00	IV	0.00	....	IV	0.00	2.34	2.34
V	+0.05	V	−0.06	....	V	−0.06	2.31	2.43
VI	0.11	VI	0.12	....	VI	0.12	2.30	2.54
VII	+0.16	VII	−0.18	....	VII	−0.18	+2.27	−2.63
December 10, 1901, to January 16, 1902.		April 17 to June 4, 1902.			October 18 to December 1, 1902.			
	″		″			″	″	
I	+0.16	I	−0.18	....	I	+0.17	+2.39	....
II	0.11	II	0.12	....	II	0.12	2.37	....
III	+0.05	III	−0.06	....	III	+0.06	2.37	....
IV	0.00	IV	0.00	....	IV	0.00	2.34	....
V	−0.05	V	+0.06	....	V	−0.06	2.31	....
VI	0.11	VI	0.12	....	VI	0.12	2.30	....
VII	−0.16	VII	+0.18	....	VII	−0.17	+2.28	....
January 16 to February 14, 1902.		June 4 to August 27, 1902.			December 1, 1902, to April 29, 1903.			
	″		″	″		″	″	
I	−0.16	I	+0.18	+2.40	I	+0.36	+2.58	....
II	0.11	II	0.12	2.37	II	0.24	2.49	....
III	−0.05	III	+0.06	2.37	III	+0.12	2.43	....
IV	0.00	IV	0.00	2.34	IV	0.00	2.34	....
V	+0.05	V	−0.06	2.31	V	−0.12	2.25	....
VI	0.11	VI	0.12	2.30	VI	0.24	2.18	....
VII	+0.16	VII	−0.18	+2.27	VII	−0.36	+2.09	....
February 17 to March 26, 1902.		August 27 to October 3, 1902.			April 29 to September 4, 1903.			
	″		″	″		″	″	
I	+0.16	I	−0.18	+2.27	I	−0.33	+1.89	....
II	0.11	II	0.12	2.30	II	0.22	2.03	....
III	+0.05	III	−0.06	2.31	III	−0.11	2.20	....
IV	0.00	IV	0.00	2.34	IV	0.00	2.34	....
V	−0.05	V	+0.06	2.37	V	+0.11	2.48	....
VI	0.11	VI	0.12	2.37	VI	0.22	2.64	....
VII	−0.16	VII	+0.18	+2.40	VII	+0.33	+2.78	....

TABLE IV.—*The Adopted Azimuth of the North Meridian Mark.*

[Positive when mark is west of north.]

SIX-INCH TRANSIT CIRCLE.	
1900	s
January 1.9 to January 16.1	+0.420
NINE-INCH TRANSIT CIRCLE.	
1900	
January 22.9 to March 28.2	−0.870
April 1.9 to May 26.1	0.861
May 31.9 to August 7.4	0.860
August 7.9 to October 20.5	0.835
October 21.4 to December 6.9	−0.856
1901	
December 8.5 to February 1.1	−0.889
February 1.4 to March 24.2	0.826
March 26.5 to June 6.1	0.870
June 7.9 to August 26.4	0.792
August 27.4 to October 25.5	−0.880
SIX-INCH TRANSIT CIRCLE.	
1901	
October 25.9 to November 14.4	+0.505
November 15.9 to December 10.2	+0.470

SIX-INCH TRANSIT CIRCLE.	
1902	s
December 10.9 to January 8.1	+0.447
January 12.9 to January 15.2	0.448
January 16.9 to February 5.1	0.499
February 5.9 to March 7.1	0.525
March 9.9 to March 25.6	0.500
March 25.9 to April 16.1	0.545
April 17.3 to May 2.1	0.608
May 4.9 to June 4.1	0.569
June 4.9 to July 9.1	0.492
July 10.9 to August 8.2	0.491
August 8.9 to August 27.1	0.448
August 27.8 to October 3.1	0.540
October 5.9 to December 5.2	+0.447
1903	
December 7.9 to January 21.1	+0.468
January 30.4 to April 1.2	0.464
April 4.3 to May 13.6	0.453
May 14.6 to July 17.1	0.471
July 19.8 to September 4.4	+0.478

TABLE V.—*The Corrections to the Semidiameters of the Sun, Given in the American Ephemeris, Obtained from the Mean of all the Measures Made by Each Observer.*

Observer.	Sidereal Time of Semidiameter Passing the Meridian.	Vertical Semidiameter.	Observer.	Sidereal Time of Semidiameter Passing the Meridian.	Vertical Semidiameter.
NINE-INCH TRANSIT CIRCLE.			SIX-INCH TRANSIT CIRCLE.		
1900 and 1901			1901 and 1902		
	s	″		s	″
B.	$+0.08_{53}$	$+1.0_{53}$	B.	$+0.15_{9}$	$+0.8_{10}$
Br.	$+0.076_{61}$	$+1.1_{56}$	Br.	$+0.07_{53}$	$+0.6_{50}$
Ei.	$+0.04_{23}$	$+0.5_{27}$	L.	$+0.11_{56}$	$+0.7_{57}$
Hd.	$+0.03_{16}$	$+0.3_{16}$	R.	$+0.03_{18}$	$+0.8_{18}$
Hh.	$+0.02_{21}$	$+1.0_{21}$	S.	$+0.02_{14}$	0.0_{13}
K.	$+0.08_{3}$	$+0.9_{3}$	Y.	$+0.04_{4}$	$+0.8_{4}$
L.	$+0.07_{8}$	$+0.8_{8}$	1903		
La.	$+0.08_{17}$	$+0.6_{16}$	Br.	$+0.01_{31}$	-0.3_{31}
S.	$+0.02_{5}$	-0.2_{5}	L.	$+0.05_{32}$	-0.7_{33}
Y.	$+0.01_{13}$	$+0.9_{11}$	R.	-0.02_{26}	-0.2_{26}

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants.*

Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE.				
1900	h h	s	s	s
Jan. 1– 2	16.4—21.7	−0.034	+0.028	Values of *a* will be found in TABLE VIa, immediately following.
[illegible]	0.9—13.9	−0.032	+0.049	
3	1.4— 1.9	−0.043	+0.068	
3	13.1—13.8	−0.060	+0.074	
3– 4	16.1—22.1	−0.063	+0.080	
4	5.4— 6.1	−0.028	+0.081	
4– 5	15.9—23.1	−0.023	+0.050	
5– 6	16.4— 0.2	−0.031	+0.039	
7	0.0— 1.5	−0.024	+0.014	
7– 8	16.3—21.7	−0.022	+0.005	
8	1.2— 5.9	−0.040	+0.003	
8	13.0—13.6	−0.108	−0.015	
9	1.0— 3.0	−0.020	+0.019	
12	4.8— 6.1	−0.009	+0.033	
13	5.5— 6.6	−0.041	−0.004	
14–15	18.5— 1.5	−0.032	+0.055	
15	5.4— 8.5	−0.026	+0.033	
15	13.3—13.7	−0.023	+0.019	
15–16	19.7— 1.0	−0.002	+0.035	
NINE-INCH TRANSIT CIRCLE.				
22–23	17.5—22.8	−0.099	.....	+0.428
22	17.5	.....	−0.018	.....
23	22.7	.....	−0.081	.....
23	1.0— 1.7	−0.077	−0.128	+0.320
23	12.8—14.8	−0.093	+0.012	+0.294
23–24	17.5— 1.7	−0.080	.....	.....
23	18.0	.....	+0.030	+0.376
23	20.1	.....	.....	+0.335
24	22.2	.....	.....	+0.310
24	0.9	.....	−0.091	.....
24	1.8	.....	.....	+0.335
25–26	16.3—23.1	−0.136	+0.127	+0.464
26	0.8— 1.4	−0.136	+0.127	+0.534
26	13.3—13.7	−0.163	+0.116	+0.559
26–27	17.1— 0.2	−0.156	+0.094	+0.621
29	0.8— 1.4	−0.143	+0.075	+0.729
29	13.0—13.6	−0.183	+0.127	+0.857
30–31	18.0— 1.4	−0.143	+0.024	+0.749
31	13.3—13.7	−0.212	+0.180	+0.840
31– 1	18.0—23.2	−0.203	.....	+0.798
31	19.9	.....	+0.145	.....
Feb. 1	1.2	.....	+0.096	.....
NINE-INCH TRANSIT CIRCLE—Continued.				
1900	h h	s	s	s
Feb. 1– 2	18.5—21.1	−0.196	+0.122	+0.958
2	2.9— 3.5	−0.154	+0.126	+0.909
2– 3	18.0— 0.6	−0.182	.....	.....
2	18.4	.....	.....	+0.839
2	19.4	.....	+0.040	.....
2	20.8	.....	.....	+0.808
3	0.8	.....	−0.074	+0.768
4– 5	18.7— 2.4	−0.151	+0.020	+0.552
5	13.3—14.2	−0.161	+0.094	+0.566
6	0.8— 3.8	−0.118	+0.021	+0.586
8	0.8— 1.4	−0.156	−0.113	+0.361
8	4.7— 5.5	−0.140	−0.055	+0.429
8	13.0—13.6	−0.163	−0.078	+0.329
9	5.8— 6.6	−0.089	−0.048	+0.459
13	9.0—10.0	−0.062	+0.003	+0.447
13–14	20.5—23.2	−0.063	−0.042	.....
13	20.9	.....	.....	+0.527
14	23.4	.....	.....	+0.472
14	0.0— 1.4	−0.063	−0.042	+0.480
14–15	20.7— 1.1	−0.082	−0.008	+0.452
18–19	19.7— 1.4	−0.162	+0.089	+0.788
19	13.0—15.3	−0.142	+0.100	+0.842
20	14.6—16.0	−0.129	+0.087	+0.781
22	16.4—17.2	−0.113	+0.037	+0.599
25–26	19.3— 1.1	−0.164	+0.088	+0.807
26–27	19.4— 2.1	.....	+0.104	+0.840
26	20.3	−0.208	.....	.....
27	2.4	−0.159	.....	.....
Mar. 3	0.0— 2.1	−0.132	+0.067	+0.624
3	12.8—13.9	−0.160	+0.111	+0.604
7	0.0— 2.1	−0.105	−0.057	+0.502
7	4.3— 5.1	−0.122	+0.028	+0.482
10	1.0— 1.4	−0.117	+0.031	+0.457
10	7.2— 8.5	−0.139	+0.036	+0.428
10	12.9—13.9	−0.140	+0.052	+0.445
11–12	20.7— 2.1	−0.208	+0.104	+0.610
12	5.8— 9.6	−0.188	+0.118	+0.597
13	1.3— 2.1	−0.168	+0.105	+0.628
13	13.3—14.1	−0.141	+0.075	+0.552
14	1.0— 1.4	−0.158	+0.009	+0.482
16	1.0— 1.4	−0.135	+0.125	+0.671
16	11.9—13.7	−0.173	+0.129	+0.681
17	1.0— 2.1	−0.144	+0.116	+0.681
17	12.2—13.7	−0.200	+0.155	+0.690

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

NINE-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
1900	h h	s	s	s
Mar. 19	14.1—15.0	−0.163	+0.083	+0.485
20	14.9—16.0	−0.108	+0.147	+0.516
20–21	20.7— 2.1	−0.144	+0.088	+0.528
21	16.1—17.3	−0.147	+0.114	+0.571
21–22	20.7— 3.0	−0.086	.....	+0.617
21	22.2	.....	+0.087	.....
22	2.5	.....	+0.025	.....
22	17.0—19.1	−0.110	+0.095	+0.516
23–24	21.1— 3.0	−0.090	+0.012	.....
23	21.5	.....	.....	+0.503
23	23.8 ...	.....	.....	+0.447
24	1.5	.....	.....	+0.406
24	6.0— 7.0	−0.101	+0.031	+0.385
26–27	21.1— 3.2	−0.062	+0.068	+0.460
27–28	21.1— 3.7	−0.086	.....	+0.396
27	21.8	.....	+0.037	.....
28	2.6	.....	+0.088	.....
28	6.0— 7.0	−0.102	+0.039	+0.384
Apr. 1	21.6—23.0	−0.077	+0.008	.....
1	21.6	.....	.....	+0.547
1	0.6	.....	.....	+0.420
2	0.7— 3.9	−0.077	+0.008	+0.402
2– 3	21.6— 4.6	−0.056	+0.002	+0.359
3	6.0— 7.0	−0.078	+0.001	+0.305
4	21.6— 0.2	−0.052	+0.010	+0.392
4– 5	0.9— 4.6	−0.052	+0.010	.....
4	0.6	.....	.....	+0.384
5	3.2	.....	.....	+0.291
5	5.8— 7.3	−0.038	−0.019	+0.249
5– 6	22.9— 4.3	−0.056	.....	+0.322
5	23.3	.....	−0.013	.....
6	3.2	.....	−0.077	.....
6	6.0— 6.3	−0.081	−0.054	+0.193
7	7.6— 8.6	−0.063	−0.054	+0.192
8	8.6— 9.4	−0.032	−0.039	+0.177
9	6.0— 7.0	−0.054	−0.074	+0.189
9	9.1—10.1	−0.070	−0.016	+0.157
9–10	22.6— 4.9	.....	.....	+0.226
9	22.4	.....	+0.018	.....
9	23.3	−0.102	.....	.....
10	4.3	.....	−0.039	.....
10	4.7	−0.052	.....	.....
10	10.0—11.1	−0.097	−0.006	+0.218
13–14	0.0— 4.6	−0.028	+0.009	.....
1900	h h	s	s	s
Apr. 13	23.2	.....	.....	+0.274
13	0.9	.....	.....	+0.259
14	4.3	.....	.....	+0.216
14	13.0—13.9	−0.042	+0.001	+0.286
15	12.8—15.2	−0.036	−0.003	+0.268
19	15.9—19.1	−0.014	−0.099	+0.184
23	21.4—23.0	−0.019	−0.152	+0.177
23–24	0.0— 6.1	−0.038	.....	.....
23	23.4	.....	−0.146	.....
23	23.7	.....	.....	+0.139
23	1.6	.....	.....	+0.118
24	4.7	.....	−0.191	.....
24	5.9	.....	.....	+0.067
24–25	22.2— 6.1	−0.017	.....	+0.132
24	23.5	.....	−0.188	.....
25	5.8	.....	−0.138	.....
25	22.9— 1.4	−0.007	−0.140	.....
25	23.3	.....	.....	+0.107
25	1.9	.....	.....	+0.036
26	2.2— 5.9	−0.007	−0.140	+0.040
26	0.0— 2.0	−0.011	−0.144	.....
26	23.8	.....	.....	+0.112
26	2.1	.....	.....	+0.052
27	2.2— 6.1	−0.011	−0.144	+0.046
27–28	0.0— 5.9	−0.001	−0.181	+0.077
May 3– 4	0.0— 6.0	−0.006	.....	+0.082
3	0.3	.....	−0.134	.....
4	6.7	.....	−0.088	.....
4– 5	0.0— 9.2	+0.026	.....	+0.072
4	0.4	.....	−0.067	.....
5	5.7	.....	−0.170	.....
6	9.1— 9.7	−0.025	−0.166	+0.062
7	9.9—11.8	+0.012	−0.211	+0.146
7– 8	1.0— 7.7	+0.007	.....	+0.084
7	0.2	.....	−0.145	.....
8	5.0	.....	−0.242	.....
8	10.0—11.4	+0.019	−0.207	−0.017
9	11.5—13.7	+0.027	−0.189	+0.084
9–10	0.0— 6.8	.....	−0.108	+0.070
9	0.8	+0.015	.....	.....
10	5.5	+0.063	.....	.....
10	12.0—13.4	+0.031	−0.168	+0.056
13–14	0.6— 7.5	+0.042	−0.323	+0.062
14	15.7—17.1	+0.018	−0.224	+0.043

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
NINE-INCH TRANSIT CIRCLE—Continued.				
1900	h h	s	s	s
May 14–15	0.6— 7.7	+0.062	.....	+0.115
14	0.8	.....	−0.232	.....
15	5.3	.....	−0.297	.....
15	11.1—11.8	+0.033	−0.309	−0.028
15	13.9—14.5	+0.046	−0.249	+0.033
15	15.9—18.6	+0.058	−0.184	+0.077
15–16	0.6— 7.5	+0.064	.....	.....
15	0.5	.....	.....	+0.107
15	2.0	.....	−0.254	.....
15	3.3	.....	.....	+0.069
16	6.6	.....	.....	+0.052
16	7.6	.....	−0.327	.....
16	15.7—16.4	+0.047	−0.190	−0.031
17	15.7—18.9	+0.102	−0.233	+0.177
19	11.1—14.2	+0.070	−0.183	+0.162
20	11.2—12.0	+0.049	−0.195	+0.095
20–21	1.8— 7.5	+0.032	.....	−0.007
20	2.8	.....	−0.133	.....
21	7.9	.....	−0.224	.....
21	11.1—11.8	+0.050	−0.249	+0.010
21	12.8—13.4	+0.050	−0.232	+0.010
21	14.1—15.0	+0.050	−0.204	+0.010
21	22.2—23.1	+0.054	−0.152	+0.014
21–22	0.6— 7.6	+0.106	.....	.....
21	0.5	.....	−0.104	.....
21	1.6	.....	.....	+0.087
22	5.8	.....	−0.255	.....
22	6.0	.....	.....	+0.024
22	11.7—14.7	+0.062	−0.282	−0.055
22	22.6— 0.1	+0.077	−0.121	+0.025
23	12.8—15.1	+0.057	−0.290	−0.016
25	12.4—14.2	+0.050	−0.253	−0.027
25–26	1.0— 7.3	+0.066	.....	.....
25	1.6	.....	.....	+0.091
25	2.2	.....	−0.180	.....
26	5.5	.....	−0.227	.....
26	6.9	.....	.....	+0.008
31– 1	1.3— 8.4	+0.046	.....	+0.058
31	2.4	.....	−0.244	.....
June 1	8.0	.....	−0.298	.....
1	13.3—13.7	+0.049	−0.296	+0.043
3	9.3—10.1	+0.115	−0.237	+0.070
4	10.0—11.2	+0.056	−0.291	+0.008
4– 5	2.9— 7.7	+0.079	−0.276	+0.050
June 5	10.0—11.6	+0.074	−0.250	+0.027
5– 6	1.3— 7.7	+0.060	.....	+0.003
5	2.2	.....	−0.242	.....
6	8.1	.....	−0.342	.....
6	12.0—13.7	+0.075	−0.287	−0.008
6– 7	2.0— 7.7	+0.104	.....	+0.036
6	2.3	.....	−0.263	.....
7	8.2	.....	−0.358	.....
7	12.2—13.7	+0.104	−0.294	+0.067
7– 8	1.3— 5.9	+0.062	−0.314	+0.026
8	15.9—16.9	+0.044	−0.284	−0.007
8– 9	3.0— 7.7	+0.102	−0.336	+0.059
9	14.2—16.6	+0.062	−0.323	+0.065
10	14.7—15.8	+0.111	−0.306	+0.006
10–11	1.3— 8.1	+0.057	−0.294	−0.010
11	15.9—18.4	+0.074	−0.339	+0.027
14	19.4—19.9	+0.097	−0.235	+0.049
19	23.0— 1.4	+0.067	−0.192	+0.004
19–20	2.9—10.1	+0.056	−0.262	−0.036
20	0.0— 1.9	+0.066	−0.213	−0.006
20–21	2.9— 7.6	+0.108	.....	+0.042
20	3.3	.....	−0.194	.....
21	8.3	.....	−0.361	.....
21	1.0— 2.1	+0.110	−0.220	+0.046
22	12.8—13.4	+0.036	−0.272	−0.016
23	12.8—13.8	+0.064	−0.292	+0.042
25–26	3.6— 9.3	+0.064	−0.348	.....
25	3.3	.....	.....	+0.033
25	6.1	.....	.....	+0.050
26	9.6	.....	.....	+0.105
26	0.9— 1.4	+0.091	−0.282	+0.068
26–27	4.5— 9.4	+0.081	.....	+0.060
26	3.8	.....	−0.282	.....
27	8.8	.....	−0.395	.....
28–29	4.5— 9.4	+0.076	.....	+0.022
28	4.1	.....	−0.298	.....
29	8.9	.....	−0.381	.....
29	13.0—13.8	+0.058	−0.378	+0.024
30	7.2— 9.8	+0.092	−0.191	−0.008
30	13.3—13.9	+0.100	−0.273	−0.010
July 1	10.0—11.0	+0.127	−0.285	+0.022
1– 2	4.5—11.3	+0.089	−0.260	−0.010
2	13.3—13.8	+0.118	−0.319	+0.006
4	1.0— 1.6	+0.081	−0.267	+0.029

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*	Date.	Sidereal Hour.	*c*	*b*	*a*
NINE-INCH TRANSIT CIRCLE—Continued.					NINE-INCH TRANSIT CIRCLE—Continued.				
1900	h h	s	s	s	1900	h h	s	s	s
July 4–5	4.8—9.8	+0.102	.....	+0.040	July 16–17	5.1—10.3	+0.112	.....	+0.030
4	4.6	.....	−0.349	.....	16	6.0	.....	−0.417	.....
5	9.9	.....	−0.426	.....	17	10.7	.....	−0.470	.....
5	1.0—1.6	+0.108	−0.292	+0.056	17	23.3—1.9	+0.125	−0.403	+0.045
5–6	4.5—9.4	+0.082	.....	+0.013	17–18	4.5—11.8	+0.104	.....	.....
5	4.7 ...	.....	−0.321	.....	17	4.6	.....	.....	+0.044
6	9.1	.....	−0.406	.....	17	5.4	.....	−0.408	.....
6	13.3—16.9	+0.075	−0.418	+0.009	17	7.7	.....	.....	−0.008
6–7	4.8—10.3	+0.088	.....	+0.006	18	9.7	.....	.....	−0.042
6	5.2	.....	−0.322	.....	18	10.4	.....	−0.508	.....
7	10.5	.....	−0.449	.....	18–19	5.1—11.2	+0.142	−0.415	+0.034
7	14.6—15.5	+0.111	−0.370	+0.043	19–20	5.1—10.1	+0.144	.....	+0.041
8	15.3—16.6	+0.095	−0.379	+0.031	19	7 2	.....	−0.392	.....
9	13.3—18.4	+0.076	.....	.....	20	10.5	.....	−0.447	.....
9	14.2	.....	−0.334	.....	20	3.4—4.0	+0.134	−0.405	+0.034
9	14.6	.....	.....	+0.027	20–21	5.1—11.2	+0.135	−0.460	+0.021
9	18.6	.....	−0.277	.....	21	18.0—18.9	+0.142	−0.393	+0.010
9	18.7	.....	.....	−0.072	23–24	5.1—10.8	+0.132	.....	−0.012
9–10	5.1—10.1	+0.114	.....	0.000	23	6.0	.....	−0.333	.....
9	4.7	.....	−0.261	.....	24	10.6	.....	−0.390	.....
10	10.3	.....	−0.378	.....	24	17.8—18.9	+0.147	−0.407	−0.014
10	15.1—15.5	+0.117	−0.385	−0.056	27	15.6—18.1	+0.111	−0.320	−0.060
10	18.0—18.4	+0.081	−0.323	−0.088	27–28	5.1—10.8	+0.118	.....	−0.015
10–11	4.5—9.7	+0.090	−0.377	−0.045	27	6.8	.....	−0.295	.....
11	13.3—13.8	+0.076	−0.445	−0.039	28	11.0	.....	−0.350	.....
11	17.5—19.4	+0.087	−0.380	−0.026	30–31	5.7—12.5	+0.135	−0.386	−0.008
11–12	4.5—11.0	+0.112	−0.410	+0.002	31	17.7—19.1	+0.131	−0.366	−0.035
12	1.0—1.6	+0.095	−0.352	+0.028	31–1	6.2—10.3	+0.145	.....	−0.016
12–13	4.5—10.9	+0.096	−0.332	.....	31	5.9	.....	−0.389	.....
12	4.3	.....	.....	+0.005	Aug. 1	10.3	.....	−0.464	.....
12	7.3	.....	.....	−0.054	1	12.8—13.5	+0.182	−0.415	+0.011
13	9.8	.....	.....	−0.084	1–2	5.7—11.2	+0.136	−0.317	−0.033
13	15.6—17.2	+0.072	−0.349	−0.063	2	13.4—14.3	+0.150	−0.353	−0.074
13	20.6—21.5	+0.084	−0.305	−0.023	2	17.7—18.1	+0.145	−0.290	−0.087
13	1.0—1.6	+0.096	−0.244	−0.037	2–3	5.8—11.8	+0.136	.....	−0.050
13–14	5.1—11.2	+0.122	.....	−0.029	2	6.4	.....	−0.288	.....
13	4.9	.....	−0.307	.....	3	11.6	.....	−0.359	.....
14	10.4	.....	−0.399	.....	3	14.1—15.0	+0.138	−0.387	−0.046
14	15.6—18.3	+0.087	−0.319	−0.039	3	18.0—18.9	+0.131	−0.311	−0.071
14	21.6—22.3	+0.099	−0.293	−0.028	3–4	6.2—11.8	+0.168	−0.328	+0.035
15	22.7—23.3	+0.105	−0.346	−0.069	4	14.9—18.2	+0.163	−0.414	+0.019
15–16	4.5—9.7	+0.101	−0.392	−0.035	5	16.1—17.1	+0.138	−0.347	−0.104
16	15.7—16.6	+0.109	−0.450	−0.007	5–6	6.5—11.9	+0.135	.....	.....
16	23.5—1.6	+0.105	−0.366	+0.043	5	6.5	.....	.....	+0.005

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*	Date.	Sidereal Hour.	*c*	*b*	*a*
NINE-INCH TRANSIT CIRCLE—Continued.					NINE-INCH TRANSIT CIRCLE—Continued.				
1900	h h	s	s	s	1900	h h	s	s	s
Aug. 5	7.1	.....	−0.374	.....	Aug. 30	13.5	.....	−0.455	.....
6	11.4	.....	....	−0.051	30	17.7—19.1	+0.299	−0.424	−0.002
6	12.1	.....	−0.470	.....	30	7.2—10.1	+0.298	.....	−0.056
6	17.2—18.9	+0.127	−0.458	−0.038	30	7.9	.....	−0.379	.....
6–7	5.8—12.7	+0.151	.....	.....	30	10.5	.....	−0.469	.....
6	6.0	.....	.....	−0.002	31	10.6—16.0	+0.298	−0.472	−0.056
6	6.9	.....	−0.409	.....	31	7.4— 7.7	+0.313	−0.421	−0.021
7	10.2—12.7	.....	.....	−0.069	31	9.3—10.3	+0.313	.....	.....
7	12.3	.....	−0.500	.....	31	9.4	.....	−0.463	−0.035
7	18.1—19.3	+0.181	−0.540	+0.063	31	10.2	.....	−0.494	−0.042
7–8	6.5—12.2	+0.164	.....	+0.021	Sept. 1	10.6—14.2	+0.313	−0.522	.....
7	6.2	.....	−0.394	.....	1	10.7	.....	.....	−0.050
8	12.1	.....	−0.470	.....	1	14.0	.....	.....	−0.097
8	17.2—19.8	+0.154	−0.436	+0.017	1	15.7—16.6	+0.313	−0.522	−0.085
8–9	5.8—13.4	+0.164	.....	−0.016	1	18.0—19.1	+0.313	−0.522	−0.022
8	7.1	.....	−0.385	.....	2	16.5—17.4	+0.297	−0.492	−0.051
9	12.2	.....	−0.442	.....	3	17.2—18.4	+0.307	−0.466	−0.073
9	17.9—20.6	+0.161	−0.386	−0.017	3–4	7.5—14.2	+0.350	−0.446	−0.012
9	6.0— 8.4	+0.171	.....	−0.051	4	18.0—19.4	+0.336	−0.502	−0.044
9	6.4	.....	−0.273	.....	4	7.5—10.6	+0.304	−0.420	−0.057
9	8.6	.....	−0.400	.....	5	10.9—13.9	+0.304	.....	−0.057
10	9.3—11.3	+0.171	−0.416	−0.051	5	10.7	.....	−0.424	.....
10	21.3—21.9	+0.168	−0.392	+0.016	5	13.7	.....	−0.553	.....
10–11	6.5—11.3	+0.169	.....	−0.042	5	19.8—20.4	+0.300	−0.500	−0.088
10	7.0	.....	−0.326	.....	5–6	7.3—14.2	+0.308	−0.506	−0.064
11	11.5	.....	−0.506	....	6	18.0—21.5	+0.293	−0.522	−0.110
11	17.5—19.3	+0.160	−0.404	−0.011	7	21.5—22.2	+0.343	−0.480	−0.031
11	22.3—23.0	+0.160	−0.404	−0.071	16	0.2— 1.5	−0.009	−0.400	+0.094
13–14	6.5—12.9	+0.164	.....	−0.029	17	7.5— 9.5	−0.004	−0.328	−0.062
13	7.1	......	−0.327	.....	18	0.2— 1.5	−0.022	−0.278	−0.085
14	12.8	.....	−0.434	.....	18–19	8.7—14.7	−0.019	.....	....
14	0.9— 1.7	+0.157	−0.397	−0.020	18	9.6	.....	−0.263	.....
16	2.9— 4.6	+0.151	−0.350	+0.003	18	9.8	.....	.....	−0.048
17	18.0—18.9	+0.307	−0.443	−0.081	18	11.5	.....	−0.283	.....
24–25	6.9—14.2	+0.311	.....	−0.023	18	11.6	.....	.....	−0.072
24	7.8	.....	−0.385	.....	19	15.1	.....	−0.317	.....
25	13.2	....	−0.468	.....	19	15.2	.....	.....	−0.134
25	17.8—19.1	+0.306	−0.473	−0.014	19	0.2— 1.5	−0.047	−0.223	−0.086
26–27	6.9—13.9	+0.322	−0.452	−0.015	19–20	8.6—14.2	.....	.....	−0.081
27–28	7.3—15.6	+0.340	−0.442	0.000	19	9.1	.....	−0.238	.....
28	17.8—19.1	+0.351	−0.470	+0.118	19	9.6	−0.051	.....	.....
28	7.2— 7.7	+0.304	−0.401	−0.055	19	11.3	.....	−0.269	.....
29–30	7.2—14.8	+0.293	.....	−0.004	20	14.0	0.000	.....	.....
29	8.2	.....	−0.383	.....	20	14.5	.....	−0.336	.....

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*	Date.	Sidereal Hour.	*c*	*b*	*a*
NINE-INCH TRANSIT CIRCLE—Continued.					NINE-INCH TRANSIT CIRCLE—Continued.				
1900	h h	s	s	s	1900	h h	s	s	s
Sept. 23	8.6—10.3	−0.043	−0.278	−0.097	Oct. 16–17	10.0—15.7	−0.004	−0.148	+0.001
24	12.0—14.7	.....	.....	−0.097	17	0.2— 1.5	−0.052	−0.115	−0.080
23	11.8	.....	−0.281	.....	17–18	9.6—15.3	+0.002	.....	+0.014
24	12.1	−0.015	.....	.....	17	10.5	.....	−0.075	.....
24	15.0	+0.036	.....	.....	17	13.2	.....	−0.127	.....
24	15.3	.....	−0.388	.....	18	15.4	.....	−0.151	.....
24	0.2— 1.5	−0.002	−0.321	−0.154	18–19	10.0—15.2	−0.030	−0.203	−0.059
24–25	9.2—13.9	+0.034	−0.315	−0.073	19	0.2— 1.5	−0.080	−0.162	−0.118
25	9.2—10.3	+0.034	−0.285	−0.088	19–20	11.0—15.6	−0.028	−0.123	−0.040
25	11.8	.....	−0.282	.....	20	0.2— 1.5	−0.046	−0.123	−0.066
26	12.1—14.8	+0.034	.....	−0.088	21	0.2— 1.5	−0.030	−0.184	−0.064
26	15.2	.....	−0.358	.....	21–22	11.1—16.6	−0.021	.....	−0.065
26	0.2— 1.5	+0.005	−0.354	−0.078	21	10.9	.....	−0.192	.....
26–27	9.2—16.2	+0.023	.....	−0.124	21	13.6	.....	−0.232	.....
26	9.5	.....	−0.372	.....	22	15.9	.....	−0.243	.....
26	11.6	.....	−0.426	.....	23	11.1—14.0	.....	−0.252	.....
27	15.9	.....	−0.464	.....	23	11.9	.....	.....	−0.036
Oct. 5	22.2—22.8	+0.013	−0.363	−0.088	23	12.0	−0.019	.....	.....
5– 6	9.6—14.7	−0.023	.....	−0.130	23	13.6	.....	.....	−0.001
5	10.7	.....	−0.340	.....	24	14.2	.....	−0.273	.....
5	12.4	.....	−0.379	.....	24	14.5	+0.034	.....	.....
6	15.2	.....	−0.405	.....	24	15.1	.....	−0.315	.....
6	22.7— 0.1	−0.011	−0.407	−0.148	24	15.5	.....	.....	+0.015
6	0.2— 1.5	+0.008	−0.381	−0.010	24	0.2— 1.5	−0.020	−0.234	−0.038
7	0.2— 1.5	+0.010	−0.353	−0.047	24–25	11.1—16.4	+0.014	−0.242	.....
9	0.2— 3.5	−0.044	−0.185	−0.058	24	12.0	.....	.....	−0.013
9–10	10.0—15.2	+0.014	−0.171	+0.002	24	13.6	.....	.....	+0.003
10	0.2— 1.5	−0.036	−0.149	−0.094	25	15.9	.....	.....	+0.038
10–11	10.2—14.5	+0.020	.....	−0.033	26	0.2— 1.5	−0.040	−0.215	−0.080
10	10.7	.....	−0.164	.....	26–27	12.8—17.8	−0.030	−0.244	−0.063
10	13.5	.....	−0.211	.....	27	0.2— 1.5	−0.036	−0.255	−0.044
11	14.9	.....	−0.234	.....	29	18.2—19.6	+0.021	−0.232	−0.060
11	0.2— 1.5	−0.016	−0.200	−0.040	29	0.2— 1.5	−0.041	−0.140	−0.054
11	4.3— 6.2	+0.005	−0.226	−0.012	29–30	11.7—17.1	−0.033	.....	−0.053
14	7.2— 7.8	+0.019	−0.188	−0.049	29	12.4	.....	−0.146	.....
14–15	10.0—15.5	+0.018	−0.253	−0.090	29	13.9	.....	−0.178	.....
15	0.2— 1.5	−0.008	−0.238	−0.108	30	17.3	.....	−0.201	.....
15	5.8— 9.0	−0.016	−0.226	−0.109	30	19.8—20.5	−0.034	−0.203	−0.079*
15–16	10.7—15.2	+0.024	.....	−0.076	30	0.2— 1.5	−0.027	−0.221	−0.079
15	11.6	.....	−0.206	.....	Nov. 2	20.2—23.4	−0.027	−0.274	−0.081
15	13.0	.....	−0.240	.....	4	0.7— 1.3	−0.030	−0.228	−0.007
16	15.9	.....	−0.312	.....	4– 5	11.7—16.4	+0.010	.....	.....
16	0.2— 1.5	−0.014	−0.198	−0.080	4	11.7—13.4	.....	.....	+0.066
16	8.5— 9.7	−0.039	−0.131	−0.037	4	12.5	.....	−0.155	.....

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* The value $-0^{s}.053$ was incorrectly used in the reductions of Nos. 9 to 13 on page A 67, but this does not affect the apparent right ascension of the Moon.

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
NINE-INCH TRANSIT CIRCLE—Continued.				
1900	h h	s	s	s
Nov. 4	13.3	.....	−0.172	.....
5	14.7	.....	−0.198	+0.054
5	16.9	.....	.....	−0.022
5	17.0	.....	−0.243	.....
5	0.2— 1.5	−0.041	−0.154	−0.060
5–6	12.1—17.2	−0.029	−0.141	−0.011
6–7	11.7—16.6	−0.020	−0.149	+0.003
8–9	11.7—17.8	−0.004	−0.058	+0.127
9	0.2— 1.5	−0.068	−0.072	+0.078
9	5.4— 6.4	−0.033	−0.071	+0.137
9–10	12.5—17.9	−0.016	.....	.....
9	12.3	.....	.....	+0.220
9	13.7	.....	−0.050	.....
9	14.8	.....	−0.065	.....
9	14.9	.....	.....	+0.145
10	15.3	.....	.....	+0.145
10	18.1	.....	.....	+0.113
10	18.4	.....	−0.104	.....
11–12	11.7—16.9	−0.024	−0.062	+0.147
12	8.6—10.5	−0.023	−0.061	+0.207
19	0.2— 1.5	+0.080	−0.365	+0.169
21–22	12.9—15.9	+0.081	−0.321	+0.115
22	23.5— 0.1	+0.061	−0.357	+0.133
22	0.2— 1.5	+0.074	−0.375	+0.133
27	20.1—21.6	+0.101	−0.174	+0.247
27	0.2— 1.5	+0.068	−0.248	+0.256
29	22.4—23.1	+0.081	−0.203	+0.141
29–30	13.3—19.9	.....	−0.171	+0.312
29	13.1	+0.049	.....	.....
30	20.2	+0.116	.....	.....
30	22.7— 0.0	+0.074	−0.209	+0.363
30	0.2— 1.5	+0.100	−0.232	+0.390
30–1	13.8—19.8	+0.108	−0.164	.....
30	14.0	.....	.....	+0.430
Dec. 1	18.8	.....	.....	+0.370
2	0.9— 1.9	+0.093	−0.172	+0.350
4	2.9— 3.9	+0.101	−0.115	+0.291
4–5	13.8—20.4	+0.104	−0.119	.....
4	13.5	.....	.....	+0.345
4	16.3	.....	.....	+0.324
5	19.2	.....	.....	+0.297
5	0.2— 5.9	+0.104	−0.162	+0.344
6	0.2— 1.5	+0.133	−0.136	.....
6	0.0	.....	.....	+0.318
NINE-INCH TRANSIT CIRCLE—Continued.				
1900	h h	s	s	s
Dec. 6	2.9	.....	.....	+0.415
6	13.8—15.0	+0.086	−0.064	+0.346
8	5.4— 8.2	+0.134	−0.015	+0.348
9	8.1— 9.1	+0.102	−0.007	+0.365
9–10	13.8—19.1	+0.092	−0.027	+0.399
10	8.1—10.7	+0.103	−0.058	+0.424
11	0.2— 1.5	+0.100	−0.070	+0.461
11	9.6—11.4	+0.106	+0.039	+0.478
12–13	14.4—19.8	+0.095	.....	.....
12	14.6	.....	.....	+0.437
12	15.7	.....	−0.028	.....
12	16.9	.....	−0.095	.....
12	17.1	.....	.....	+0.405
13	19.5	.....	.....	+0.316
13	20.2	.....	−0.135	.....
13	0.2— 1.5	+0.101	.....	+0.384
13	0.2	.....	−0.183	.....
13	3.2	.....	−0.073	.....
13	10.0—12.7	+0.103	−0.035	+0.271
13–14	14.1—19.5	+0.088	−0.060	.....
13	16.0	.....	.....	+0.305
13	16.9	.....	.....	+0.309
14	19.2	.....	.....	+0.356
14	10.3—12.7	+0.113	+0.006	+0.443
14–15	15.2—19.1	+0.103	.....	.....
14	14.7	.....	+0.024	.....
14	14.8	.....	.....	+0.445
14	17.1	.....	.....	+0.437
14	17.2	.....	−0.014	.....
15	19.2	.....	.....	+0.382
15	19.3	.....	−0.086	.....
15	10.4—13.6	+0.081	.....	+0.480
15	11.2	.....	−0.034	.....
15	12.8	.....	+0.040	.....
16–17	13.8—19.8	+0.113	+0.025	+0.606
17–18	14.7—19.1	+0.117	+0.003	.....
17	15.1	.....	.....	+0.581
17	17.5	.....	.....	+0.525
18	19.3	.....	.....	+0.524
19	0.2— 1.5	+0.154	−0.092	+0.389
21	0.2— 1.5	+0.197	−0.048	+0.438
26	22.0—22.7	+0.123	−0.191	+0.370
26	0.2— 1.5	+0.152	−0.108	+0.448
27	22.5—23.6	+0.143	−0.045	+0.452

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

NINE-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
1900	h h	s	s	s
Dec. 27	0.2— 1.5	+0.168	−0.064	+0.492
28	0.0— 0.8	+0.122	−0.068	+0.425
28–29	15.6—20.6	+0.150	.....	+0.478
28	16.1	.....	−0.022	.....
28	18.2	.....	−0.034	.....
29	20.3	.....	−0.097	.....
29	0.7— 1.4	+0.136	−0.106	+0.572
1901				
Jan. 1	3.8— 4.4	+0.128	−0.118	+0.363
2	4.7— 5.2	+0.106	−0.070	+0.438
2– 3	16.0—22.1	+0.132	−0.002	+0.467
3	0.2— 1.5	+0.142	−0.026	.....
3	0.1	....	.....	+0.435
3	2.4	.....	.....	+0.533
3	4.7— 6.6	+0.144	+0.035	+0.489
3– 4	15.5—20.8	+0.150	−0.010	+0.581
4	0.2— 1.5	+0.138	+0.030	+0.507
4	5.3— 7.4	+0.142	−0.033	+0.548
5	5.8— 8.5	+0.148	+0.031	+0.511
6	8.5— 9.7	+0.147	−0.017	+0.551
7	9.6—11.4	+0.162	−0.048	+0.531
7– 8	16.4—20.6	+0.150	−0.023	+0.457
8	10.2—11.3	+0.129	−0.074	+0.446
9	0.2— 1.5	+0.146	−0.114	+0.438
9	10.7—12.3	+0.131	−0.062	+0.367
11–12	16.8—22.1	+0.138	−0.077	+0.329
12	10.6—14.2	+0.123	−0.012	+0.370
13	14.1—14.8	+0.139	+0.057	+0.431
14–15	16.8—22.1	+0.140	.....	+0.355*
14	17.4	.....	+0.005	.....
14	19.2	.....	−0.033	.....
15	21.9	.....	−0.177	.....
15–16	16.3—21.7	+0.148	−0.070	+0.368
16	6.0— 7.0	+0.102	−0.120	+0.300
18	6.0— 7.0	+0.130	−0.038	+0.470
18–19	17.0— 1.6	+0.167	+0.063	+0.459
28	3.1— 7.0	+0.134	+0.001	+0.535
29	4.5— 6.8	+0.134	−0.012	+0.540
30	18.9—19.8	+0.202	+0.038	+0.574
31	5.3— 7.7	+0.147	+0.048	+0.497
31– 1	18.2 0.3	+0.150	.....	.....
31	18.1 ...	.....	.....	+0.633
31	19.1	.....	+0.108	.....
31	20.3	.....	.....	+0.597
1901	h h	s	s	s
Jan. 31	20.5	.....	+0.072	.....
Feb. 1	23.2	.....	.....	+0.580
1	23.4	.....	−0.007	.....
1	5.3— 8.0	+0.123	−0.009	+0.643
1– 2	18.7—22.7	+0.143	−0.008	+0.663
3– 4	18.9— 0.2	+0.156	−0.046	+0.550
4	9.3—13.4	+0.159	−0.033	+0.560
4– 5	18.5— 1.1	+0.135	−0.011	+0.533
5	10.2—13.9	+0.147	+0.033	+0.592
5– 6	18.5— 0.2	+0.164	.....	+0.654
5	18.0	.....	+0.024	.....
5	20.6	.....	+0.071	.....
6	23.4	.....	−0.038	.....
6	10.7—12.3	+0.131	+0.037	+0.666
6– 7	18.7— 0.2	+0.171	+0.010	.....
6	19.1	.....	.....	+0.687
6	21.0	.....	.....	+0.671
7	0.3	.....	.....	+0.633
9	13.6—15.2	+0.143	+0.056	+0.640
10	14.7—15.7	+0.171	+0.038	+0.706
11–12	18.7— 1.1	+0.133	−0.004	.....
11	19.1	.....	.....	+0.619
11	21.3	.....	.....	+0.595
12	0.6	.....	.....	+0.568
12	5.8— 7.3	+0.122	−0.001	+0.580
12	16.4—17.2	+0.129	+0.041	+0.686
13–14	19.0— 1.1	+0.181	+0.017	+0.712
14	6.0— 7.0	+0.179	+0.037	+0.715
15–16	19.4— 0.2	+0.130	+0.022	.....
15	19.5	.....	.....	+0.651
15	21.7	.....	.....	+0.629
16	0.3	.....	.....	+0.566
18–19	19.0— 1.9	+0.126	.....	.....
18	18.9	.....	.....	+0.492
18	19.3	.....	−0.026	.....
18	21.6	.....	−0.071	.....
18	21.8	.....	.....	+0.452
19	1.2	.....	.....	+0.420
19	1.5	.....	−0.094	.....
19	5.8— 7.3	+0.122	−0.067	+0.429
19–20	18.7— 0.7	+0.164	+0.026	+0.560
24	2.6— 3.9	+0.184	−0.026	+0.633
24–25	19.6— 3.7	+0.145	+0.034	.....
24	20.3	.....	.....	+0.695

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* The value $+0^{s}.385$ was incorrectly used in the reductions of Nos. 11 to 25 on page A 81. The necessary changes, however, have been made in the right ascensions of the Sun, Mercury, and Venus on pages A 285, A 302, and A 307.

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

NINE-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
1901	h h	s	s	s
Feb. 24	22.4	.....	.....	+0.654
25	0.9	.....	.....	+0.608
25	2.7	.....	.....	+0.593
25	4.3— 7.0	+0.161	−0.002	+0.633
26	6.0— 7.0	+0.114	−0.006	+0.510
26–27	19.6— 3.9	+0.156	−0.011	+0.583
27	6.0— 7.0	+0.159	−0.072	+0.585
27–28	21.1— 1.1	+0.176	+0.023	.....
27	20.4	.....	.....	+0.628
27	22.5	.....	.....	+0.608
28	0.9	.....	.....	+0.553
28	3.0— 3.9	+0.139	+0.002	+0.517
28	7.2— 8.5	+0.154	−0.061	+0.574
Mar. 1	8.1— 8.5	+0.125	−0.011	+0.521
5	9.7—12.0	+0.131	+0.008	+0.519
6	3.0— 3.9	+0.115	+0.122	+0.551
6	9.7—12.5	+0.135	+0.108	+0.586
6– 7	20.7— 4.4	+0.166	+0.007	.....
6	21.3	.....	.....	+0.701
7	23.3	.....	.....	+0.694
7	4.1	.....	.....	+0.616
7	12.2—14.2	+0.146	−0.002	+0.660
11	16.3—17.4	+0.158	−0.165	+0.533
11–12	20.7— 3.5	+0.117	.....	+0.439
11	20.6	.....	−0.088	.....
11	23.2	.....	−0.177	.....
12	2.4	.....	−0.126	.....
16	6.0— 7.0	+0.130	−0.150	+0.458
17–18	20.7— 3.9	+0.119	.....	.....
17	20.9	.....	.....	+0.513
17	21.3	.....	−0.102	.....
17	23.4	.....	.....	+0.486
17	23.5	.....	−0.191	.....
18	2.3	.....	.....	+0.440
18	2.5	.....	−0.148	.....
18	6.0— 7.0	+0.120	−0.119	+0.442
20	21.1—23.5	+0.112	−0.096	+0.400
21–22	21.1— 3.5	+0.133	−0.186	.....
21	21.8	.....	.....	+0.469
22	2.8	.....	.....	+0.402
22–23	21.1— 2.1	+0.134	.....	.....
22	20.9	.....	.....	+0.438
22	21.0	.....	−0.157	.....
22	23.3	.....	−0.242	.....

NINE-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
1901	h h	s	s	s
Mar. 22	23.5	.....	.....	+0.445
23	2.9	.....	−0.209	.....
23	3.1	.....	.....	+0.371
24	3.0— 4.4	+0.158	−0.255	+0.442
26	12.2—13.7	+0.093	−0.256	+0.336
28	7.6— 8.5	+0.102	−0.107	+0.363
28–29	21.6— 3.9	+0.129	.....	.....
28	21.9	.....	....	+0.409
28	22.6	.....	−0.149	.....
28	0.4	.....	−0.185	+0.389
29	2.5	.....	.....	+0.324
29	3.5	.....	−0.211	.....
31– 1	22.0— 1.1	+0.129	.....	+0.388
31	21.9	.....	−0.043	.....
31	0.5	.....	−0.125	.....
Apr. 1	9.6—11.8	+0.100	−0.115	+0.288
4	12.0—14.2	+0.114	−0.064	+0.382
4– 5	21.2— 3 9	+0.142	−0.167	.....
4	21.2	.....	.....	+0.455
5	4.1	.....	.....	+0.360
9	16.8—19.0	+0.131	−0.165	+0.320
9–10	22.0— 4.6	+0.116	−0.181	+0.293
10	16.5—19.6	+0.112	−0.176	+0.286
10–11	22.6— 3.9	+0.116	.....	.....
10	22.8	.....	−0.167	.....
10	22.9	.....	.....	+0.291
10	0.9	.....	−0.253	.....
10	1.1	.....	.....	+0.224
11	3.3	.....	−0.176	.....
11	3.4	.....	.....	+0.173
11	17.5—20.3	+0.118	−0.203	+0.313
11–12	23.0— 4.6	+0.117	.....	+0.343
11	22.5	.....	−0.192	.....
11	0.8	.....	−0.249	.....
12	3.5	.....	−0.258	.....
15–16	23.0— 2.1	+0.123	−0.183	+0.293
16	6.0— 7.0	+0.123	−0.218	+0.223
16–17	22.6— 4.4	+0.110	−0.202	+0.233
17	12.2—13.4	+0.113	−0.268	+0.250
25–26	0.2— 4.3	+0.140	−0.251	.....
25	23.4	.....	.....	+0.295
25	2.0	.....	.....	+0.266
26	4.2	.....	.....	+0.200
26	9.2—13.4	+0.088	−0.298	+0.177

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
NINE-INCH TRANSIT CIRCLE—Continued.				
1901	h h	s	s	s
Apr. 27	9.6–13.7	+0.106	−0.308	+0.191
28	10.6–13.4	+0.104	−0.438	+0.230
28–29	0.0 – 5.2	+0.134	.....	+0.170
28	23.8	.....	−0.285	.....
28	2.3	.....	−0.312	.....
29	4.7	.....	−0.347	.....
29	9.9–12.1	+0.096	−0.303	+0.144
29	12.2–13.4	+0.104	−0.376	+0.170
29–30	0.0– 4.6	+0.120	.....	+0.171
29	23.7	.....	−0.328	.....
29	2.1	.....	−0.376	.....
30	4.9	.....	−0.474	.....
30	9.6–13.4	+0.098	−0.396	+0.166
May 2– 3	0.0– 4.4	+0.092	−0.326	+0.127
3	14.7–17.3	+0.068	−0.252	+0.121
3– 4	0.8– 5.4	+0.075	−0.292	+0.060
4	15.7–17.3	+0.071	−0.263	+0.112
5	16.3–19.4	+0.031	−0.360	+0.063
6	16.5–18.6	+0.063	−0.273	+0.105
11	22.0–22.7	+0.081	−0.274	+0.081
12–13	0.6– 5.4	+0.057	.....	+0.053
12	1.4	.....	−0.294	.....
12	2.9	.....	−0.384	.....
13	5.5	.....	−0.314	.....
13–14	0.0– 5.2	+0.062	−0.295	+0.085
14	12.2–13.4	+0.038	−0.408	+0.070
16	12.2–13.4	+0.084	−0.381	+0.102
22	12.2–13.4	+0.072	−0.421	+0.097
23	7.3– 9.7	+0.058	0.395	+0.117
23	18.0–19.1	+0.072	−0.328	+0.116
28	12.2–13.7	+0.098	−0.370	+0.195
29	11.9–14.3	+0.054	−0.326	+0.171
30	14.6–16.1	+0.053	−0.334	+0.094
31	15.2–17.4	+0.047	−0.316	+0.141
June 3	16.5–19.3	+0.045	−0.338	+0.149
3– 4	1.8– 7.7	+0.094	.....	+0.198
3	2.4	.....	−0.340	.....
3	5.7	.....	−0.410	.....
4	7.0	.....	0.492	.....
4	16.5–19.4	+0.063	−0.435	+0.160
5	18.8–20.5	+0.042	−0.384	+0.134
5– 6	2.0– 6.7	+0.034	−0.409	+0.135
7– 8	1.8– 6.8	+0.060	−0.318	+0.179
8	22.5–23.2	+0.038	−0.285	+0.143
1901	h h	s	s	s
June 9	18.0– 0.0	+0.051	−0.350	+0.173
9–10	1.8– 7.3	+0.050	−0.371	.....
9	2.2	.....	.....	+0.197
9	5.0	.....	.....	+0.129
10	6.7	.....	.....	+0.111
10	17.8– 1.1	+0.057	−0.367	+0.214
10–11	2.6– 7.5	.....	.....	+0.224
10	2.3	+0.037	.....	.....
10	2.5	.....	−0.318	.....
10	5.0	.....	−0.438	.....
11	6.9	+0.106	.....	.....
11	7.0	.....	−0.471	.....
11–12	1.0–10.1	+0.014	−0.439	+0.192
17–18	4.5– 7.9	+0.068	.....	+0.228
17	4.7	.....	−0.364	.....
18	8.1	.....	−0.429	.....
18	10.8–11.6	+0.068	.....	+0.156
18	10.8	.....	−0.468	.....
18	11.1	.....	−0.472	.....
18	18.0–19.3	+0.040	−0.458	+0.130
19	9.6–12.1	+0.031	−0.543	+0.142
19	17.2–19.4	+0.036	−0.506	+0.114
21	10.0–11.4	+0.079	−0.483	+0.255
23	11.7–12.3	+0.047	−0.451	+0.170
23	17.2–19.1	+0.009	−0.426	+0.223
23–24	4.5– 8.3	+0.052	.....	+0.204
23	3.8	.....	−0.450	.....
23	6.0	.....	−0.492	.....
24	8.8	.....	−0.523	.....
24	12.5–13.4	+0.057	−0.514	+0.254
24	17.5–19.1	+0.043	−0.480	+0.217
24–25	4.5– 7.9	+0.062	−0.471	+0.230
25	13.3–14.3	+0.038	−0.470	+0.184
25–26	3.7– 7.9	+0.034	−0.487	.....
25	3.2	.....	.....	+0.202
25	6.1	.....	.....	+0.168
26	8.3	....	.....	+0.150
26	14.1–17.4	+0.008	−0.478	+0.160
27	14.9–16.2	+0.035	−0.539	.....
27	14.5	.....	.....	+0.141
27	17.2	.....	.....	+0.201
27–28	3.8– 9.9	+0.068	−0.486	+0.198
28	15.9–16.6	+0.027	−0.585	+0.245
28–29	3.7– 9.4	+0.012	.....	+0.154

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

NINE-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
1901	h h	s	s	s
June 28	3.5	.....	−0.450	.....
28	6.2	.....	−0.511	.....
29	8.9	.....	−0.565	.....
29	16.4—19.4	−0.008	−0.470	+0.183
30	17.2—19.0	+0.033	−0.510	+0.196
30– 1	4.8— 7.7	+0.025	−0.531	+0.205
July 1	17.2—19.6	+0.008	−0.542	+0.255
1– 2	4.5— 6.8	+0.047	−0.512	+0.244
[illegible]	19.3—19.9	+0.031	−0.512	+0.236
2– 3	4.5— 8.1	+0.018	.....	+0.182
2	4.3	.....	−0.464	.....
2	6.5	.....	−0.505	.....
3	9.7	.....	−0.549	.....
3	17.2—21.6	+0.006	−0.425	+0.214
4– 5	4.5— 8.3	+0.064	.....	.....
4	4.2	.....	.....	+0.211
4	4.3	.....	−0.429	.....
5	8.0	.....	−0.508	.....
5	8.3	.....	.....	+0.270
5	22.2—23.1	+0.038	−0.457	+0.220
5– 6	4.5— 7.7	+0.016	−0.515	+0.168
8– 9	4.5— 9.7	+0.036	.....	.....
8	4.4	.....	.....	+0.195
8	4.7	.....	−0.364	.....
8	7.1	.....	.....	+0.150
8	8.0	.....	−0.436	.....
9	9.5	.....	.....	+0.123
9	17.2—19.3	+0.022	−0.416	+0.161
10	17.1—19.1	+0.013	−0.468	+0.170
10	2.6— 3.9	+0.006	−0.428	+0.145
15	17.2—19.0	+0.008	−0.535	+0.202
15–16	4.8— 9.3	+0.044	.....	+0.184
15	5.7	.....	−0.544	.....
15	7.5	.....	−0.526	.....
16	9.7	.....	−0.449	.....
19–20	4.8—12.2	+0.038	.....	+0.171
19	4.7	.....	−0.430	.....
19	7.6	.....	−0.464	.....
20	12.4	.....	−0.531	.....
21	12.0—13.1	−0.005	−0.511	+0.110
21	17.2—19.0	+0.031	−0.534	+0.218
23	13.5—19.0	+0.036	−0.520	+0.180
28	18.0—19.1	+0.019	−0.420	+0.195
28–29	6.7—11.2	+0.030	.....	.....
1901	h h	s	s	s
July 28	5.0	.....	−0.466	.....
28	5.3	.....	.....	+0.168
28	8.1	.....	.....	+0.197
28	8.2	.....	−0.564	.....
29	11.3	.....	.....	+0.235
29	11.5	.....	−0.553	.....
29	17.2—19.8	+0.012	−0.496	+0.260
29–30	5.8—10.3	+0.017	−0.509	+0.205
30	18.0—18.9	+0.006	−0.414	+0.211
31	18.3—21.6	+0.024	−0.386	+0.215
31– 1	5.8—11.8	+0.030	−0.412	.....
31	7.0	.....	.....	+0.168
Aug. 1	8.9	.....	.....	+0.136
1	11.9	.....	.....	+0.097
1	21.6—22.6	+0.028	−0.366	+0.166
1– 2	6.1—10.5	+0.010	−0.398	+0.189
2– 3	6.5—10.6	+0.027	.....	+0.162
2	6.8	.....	−0.381	.....
3	10.8	.....	−0.468	.....
7– 8	5.8—12.2	+0.014	.....	+0.116
7	6.9	.....	−0.384	.....
7	8.8	.....	−0.409	.....
8	12.7	.....	−0.466	.....
8	17.9—19.1	+0.024	0.476	+0.159
8	4.3— 5.6	+0.029	−0.379	+0.149
8– 9	6.5—11.3	+0.003	−0.445	+0.143
9	18.0—19.1	+0.001	−0.467	+0.101
9–10	5.7—11.8	+0.008	.....	+0.157
9	5.1	.....	−0.393	.....
9	8.4	.....	−0.481	.....
10	12.5	.....	−0.532	.....
13	18.0—19.1	−0.011	−0.432	+0.077
16	18.0—19.1	−0.012	−0.473	+0.138
19	17.8—19.0	+0.025	−0.549	+0.077
20	13.8—14.8	+0.032	−0.519	+0.166
20	18.0—19.0	+0.011	−0.496	+0.101
20–21	7.4—12.9	−0.006	.....	+0.107
20	6.8	.....	−0.471	.....
20	9.4	.....	−0.495	.....
21	15.4—16.1	−0.006	.....	+0.053
21	16.7	.....	−0.554	.....
21–22	7.2—12.6	+0.005	−0.504	+0.136
22	15.6—18.2	−0.002	−0.530	+0.110
25–26	7.2—13.4	+0.012	.....	+0.108

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
NINE-INCH TRANSIT CIRCLE—Continued.				
1901	h h	s	s	s
Aug. 25	8.2	.....	−0.432	.....
25	9.7	.....	−0.470	.....
26	13.8	.....	−0.536	.....
26	17.2—20.4	+0.002	−0.487	+0.110
27	20.5—21.5	+0.006	−0.455	−0.017
27–28	8.6—14.2	+0.016	−0.473	+0.008
28	17.8—19.0	+0.016	−0.473	−0.067
28	21.4—22.3	+0.013	−0.495	+0.110
29	22.3—23.2	+0.006	−0.472	−0.017
29–30	7.4—13.6	+0.008	.....	+0.026
29	8.1	.....	−0.438	.....
29	10.9	.....	−0.433	.....
30	13.7	.....	−0.507	.....
31	0.1— 1.0	+0.002	−0.410	−0.094
Sept. 1	0.2— 1.9	+0.011	−0.449	−0.024
3	23.2— 3.9	+0.025	−0.397	+0.036
3– 4	7.5—14.5	+0.041	−0.387	+0.012
4	22.0—22.4	+0.038	−0.458	+0.029
4	4.3— 5.0	+0.017	−0.339	−0.059
4– 5	9.2—14.7	+0.034	.....	+0.006
4	7.9	.....	−0.406	.....
4	10.4	.....	−0.443	.....
5	15.2	.....	−0.576	.....
5	4.9— 6.3	+0.035	−0.465	+0.035
5– 6	9.2—13.6	+0.018	.....	+0.030
5	8.5	.....	−0.402	.....
6	11.2	.....	−0.457	.....
6	13.2	.....	−0.480	.....
6– 7	8.1—13.9	+0.030	−0.513	−0.012
7	21.8—22.4	−0.013	−0.538	−0.056
7	7.2— 7.7	+0.031	−0.449	+0.004
8	7.4—10.3	+0.037	.....	+0.002
8	7.0	.....	−0.360	.....
8	10.7	.....	−0.457	.....
9	11.1—13.0	+0.037	.....	.....
9	11.1	.....	−0.461	+0.040
9	13.7	.....	.....	+0.084
9	13.9	.....	−0.485	.....
9	21.5— 1.5	+0.019	−0.432	+0.073
10–11	10.0—14.2	+0.020	−0.508	−0.028
12	23.5— 1.5	+0.029	−0.519	+0.041
12–13	9.2—13.0	+0.022	−0.458	.....
12	8.8	.....	.....	−0.012
13	11.7	.....	.....	−0.064
NINE-INCH TRANSIT CIRCLE—Continued.				
1901	h h	s	s	s
Sept. 15–16	9.2—14.2	+0.036	.....	−0.041
15	8.9	.....	−0.416	.....
15	11.1	.....	−0.438	.....
16	16.0	.....	−0.558	.....
20–21	10.0—15.0	+0.018	.....	.....
20	9.4	.....	−0.355	.....
20	10.5	.....	.....	−0.047
21	15.2	.....	.....	−0.100
21	15.5	.....	−0.432	.....
21	18.1—19.3	+0.053	−0.468	−0.079
22	19.2—19.7	+0.017	−0.470	−0.226
22–23	9.6—15.3	+0.051	.....	−0.053
22	9.3	.....	−0.367	.....
22	11.6	.....	−0.438	.....
23	15.4	.....	−0.478	.....
23	17.8—20.8	+0.053	−0.538	+0.036
23–24	9.3—14.8	+0.047	.....	+0.002
23	10.4	.....	−0.458	.....
24	12.6	.....	−0.440	.....
24	14.9	.....	−0.518	.....
24	20.6— 1.5	+0.026	−0.437	−0.006
25	22.0—22.4	+0.033	−0.471	−0.108
25–26	9.3—15.7	+0.030	−0.402	−0.121
26	22.7—23.6	+0.026	−0.438	−0.019
27	23.2— 0.6	+0.049	−0.364	−0.111
29–30	10.0—15.3	+0.049	.....	.....
29	9.3	.....	−0.479	.....
29	11.4	.....	.....	+0.123
29	11.9	.....	−0.519	.....
30	15.5	.....	.....	+0.187
30	15.7	.....	−0.541	.....
30	2.7— 3.8	+0.042	−0.414	+0.171
30– 1	9.6—15.3	+0.071	−0.388	.....
30	10.3	.....	.....	+0.173
Oct. 1	13.5	.....	.....	+0.107
1	14.9	.....	.....	+0.107
1	1.4— 2.2	+0.043	−0.364	+0.085
2– 3	9.7—15.2	+0.076	.....	+0.115
2	10.6	.....	−0.299	.....
[illegible]	12.4	.....	−0.348	.....
3	15.7	.....	−0.359	.....
3– 4	10.0—16.1	+0.066	.....	+0.112
3	9.9	.....	−0.249	.....
4	13.4	.....	−0.305	.....

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
NINE-INCH TRANSIT CIRCLE—Continued.				
1901	h h	s	s	s
Oct. 4	15.3	.....	−0.321	.....
4	6.9— 7.6	+0.028	−0.320	+0.099
4– 5	10.0—15.7	+0.053	.....	.....
4	11.0	.....	−0.235	.....
4	11.5	.....	.....	+0.119
5	15.4	.....	−0.314	.....
5	15.8	.....	.....	+0.061
5	8.0— 8.4	+0.058	−0.246	+0.164
6– 7	8.6—15.7	+0.060	−0.275	+0.153
7	17.8—19.0	+0.067	−0.343	+0.075
7– 8	9.6—15.8	+0.066	.....	+0.120
7	10.5	.....	−0.250	.....
8	15.4	.....	−0.358	.....
8	17.8—19.0	+0.072	−0.338	+0.114
10–11	11.1—16.1	+0.064	.....	+0.098
10	10.8	.....	−0.323	.....
10	12.9	.....	−0.423	.....
11	16.1	.....	−0.467	.....
14–15	11.1—16.2	+0.060	−0.322	+0.071
15	17.8—19.0	+0.054	−0.362	+0.029
15–16	10.7—16.9	+0.047	−0.350	+0.072
16–17	10.7—15.7	+0.044	−0.324	+0.064
17	23.9— 1.7	+0.070	−0.308	+0.084
17–18	11.1—16.4	+0.066	.....	+0.120
17	10.8	.....	−0.245	.....
17	13.1	.....	−0.266	.....
18	16.4	.....	−0.346	.....
18	18.2—18.9	+0.056	−0.281	+0.077
18	11.0	.....	−0.267	.....
18	11.4	+0.068	.....	.....
18	11.5	.....	.....	+0.216
19	12.8	+0.065	.....	.....
19	13.3	.....	−0.286	.....
19	14.3	.....	.....	+0.161
19	17.3	.....	−0.394	.....
19	17.5	+0.008	.....	.....
19	17.6	.....	.....	+0.073
19	17.8—19.4	+0.008	−0.430	+0.046
20	19.7—20.4	+0.081	−0.345	+0.115
20–21	10.7—16.9	+0.042	.....	.....
20	10.9	.....	−0.301	.....
20	12.5	.....	.....	+0.116
20	13.2	.....	−0.311	.....
20	13.3	.....	.....	+0.112
Oct. 21	17.5	.....	−0.363	.....
21	17.7	.....	.....	+0.057
21	17.8—19.1	+0.043	−0.387	+0.057
21	20.5—21.5	+0.043	−0.387	+0.040
21–22	11.7—16.7	+0.049	.....	+0.101
21	11.2	.....	−0.261	.....
21	13.2	.....	−0.345	.....
22	16.9	.....	−0.408	.....
22	21.4—22.2	+0.022	.....	+0.090
22	21.2	.....	−0.404	.....
22	22.4	.....	−0.504	.....
22–23	11.1—17.8	+0.052	.....	+0.047
22	10.8	.....	−0.292	.....
22	12.9	.....	−0.403	.....
23	17.9	.....	−0.501	.....
23–24	11.1—16.9	+0.038	−0.361	+0.035
24	23.3— 1.5	+0.058	−0.329	+0.060
24–25	11.7—17.1	.....	−0.256	.....
24	11.5	+0.093	.....	.....
24	11.6	.....	.....	+0.136
24	12.4	.....	.....	+0.098
24	14.6	+0.076	.....	.....
25	17.4	+0.045	.....	+0.061
25	0.3— 1.0	+0.058	−0.232	+0.076
SIX-INCH TRANSIT CIRCLE.				
25–26	11.1—17.6	+0.001	+0.050	+0.029
26	0.2— 2.2	+0.006	.....	.....
26	0.5	.....	.....	−0.014
26	0.6	.....	+0.073	.....
26	2.0	.....	+0.008	.....
26	2.3	.....	.....	+0.072
27	2.2— 3.2	+0.001	−0.010	+0.034
27–28	12.8—17.8	−0.007	.....	+0.020
27	11.4	.....	+0.057	.....
27	13.6	.....	+0.054	.....
28	18.5	.....	+0.128	.....
29	4.7— 7.4	0.000	+0.034	−0.026
29–30	11.7—17.6	+0.004	+0.088	+0.018
30	5.5— 6.3	−0.006	+0.064	+0.026
Nov. 1	6.3— 8.5	+0.015	+0.139	+0.032
1– 2	11.7—17.8	+0.002	+0.096	+0.007
2	8.5— 9.2	−0.006	0.000	+0.019

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
1901	h h	s	s	s
Nov. 3	9.1—10.3	−0.017	+0.042	−0.016
5– 6	11.1—18.3	−0.009	.....	+0.018
5	11.6	.....	+0.069	.....
5	14.1	.....	+0.099	.....
6	17.7	.....	+0.126	.....
6	0.2— 1.5	0.000	+0.100	+0.024
6– 7	12.1—18.4	−0.011	.....	+0.044
6	12.6	.....	+0.068	.....
6	14.5	.....	+0.093	.....
7	18.6	.....	+0.137	.....
7– 8	11.7—18.8	−0.005	+0.097	+0.043
8	0.2— 1.5	−0.012	+0.073	+0.049
10–11	13.8—18.6	−0.016	.....	.....
10	12.0	.....	.....	+0.007
10	12.1	.....	+0.044	.....
10	14.3	.....	.....	+0.048
10	14.6	.....	+0.060	.....
11	17.9	.....	.....	+0.076
11	18.1	.....	+0.140	.....
12–13	14.1—18.6	−0.002	+0.032	+0.068
13–14	12.9—19.8	+0.006	+0.012	+0.068
14	0.2— 1.5	+0.014	+0.002	+0.086
15	0.9— 1.5	−0.002	−0.040	.....
15	23.9	.....	.....	+0.072
15	1.6	.....	.....	+0.130
15	12.8—14.7	−0.022	−0.008	+0.025
19	22.0—22.7	+0.004	+0.005	+0.100
19	1.2— 1.5	−0.005	+0.015	.....
19	0.9	.....	.....	+0.121
19	1.7	.....	.....	+0.119
19–20	12.8—19.4	−0.002	+0.038	+0.075
20	22.7—23.6	+0.018	+0.046	+0.083
20	0.9— 1.5	+0.002	+0.042	.....
20	0.1	.....	.....	+0.067
20	1.7	.....	.....	+0.141
21	23.5— 0.8	+0.016	+0.084	+0.145
21–22	13.3—19.5	−0.012	.....	+0.038
21	13.1	.....	+0.049	.....
21	15.2	.....	+0.053	.....
22	19.8	.....	+0.105	.....
22	0.7— 1.4	−0.003	+0.067	+0.125
24–25	13.8—19.5	−0.017	+0.083	+0.139
25	1.4— 2.1	+0.008	+0.078	.....
25	1.0	.....	.....	+0.181
25	1.6	.....	.....	+0.187
1901	h h	s	s	s
Nov. 25	3.0	.....	.....	+0.231
25–26	14.1—19.7	−0.006	+0.045	+0.143
26	1.2— 1.5	−0.006	+0.032	.....
26	23.9	.....	.....	+0.176
26	1.7	.....	.....	+0.229
26	4.8— 6.6	+0.004	+0.020	+0.262
26–27	13.8—19.8	−0.004	+0.023	+0.209
27	1.0— 1.5	−0.004	+0.018	.....
27	23.9	.....	.....	+0.189
27	1.2	.....	.....	+0.232
27	2.1 ...	.....	.....	+0.235
27	13.4— 4.2	−0.011	+0.031	+0.163
28	5.8— 8.0	+0.001	−0.002	+0.312
29–30	14.0—20.2	+0.002	+0.066	+0.107
30	12.8—13.5	0.000	+0.054	+0.148
Dec. 1	9.9—10.7	+0.017	+0.087	−0.033
1	12.8—13.5	+0.008	+0.071	−0.031
1– 2	14.1—20.2	+0.002	+0.096	−0.031
3	11.5—12.2	−0.005	+0.073	−0.054
3	12.9—13.5	+0.007	+0.085	−0.018
4	1.2— 1.5	+0.004	+0.105	.....
4	1.0	.....	.....	−0.007
4	1.6	.....	.....	+0.020
4	12.2—13.4	+0.012	+0.086	−0.114
4– 5	14.1—20.4	+0.002	.....	.....
4	14.0	.....	.....	−0.083
4	14.9	.....	+0.018	.....
4	16.1	.....	.....	+0.011
4	16.2	.....	+0.047	.....
5	19.2	.....	+0.085	.....
5	19.9	.....	.....	+0.041
5	1.2— 1.7	+0.006	+0.064	.....
5	1.2	.....	.....	+0.001
5	1.9	.....	.....	+0.015
5– 6	13.0—20.6	0.000	.....	.....
5	13.2	.....	.....	+0.102
5	13.6	.....	+0.078	.....
5	16.1	.....	+0.052	.....
5	16.2	.....	.....	+0.068
6	19.8	.....	+0.131	.....
6	20.0	.....	.....	−0.021
6	1.2— 1.5	+0.012	+0.151	.....
6	1.0	.....	.....	−0.030
6	2.2	.....	.....	+0.016
6– 7	14.2—20.6	+0.022	+0.203	.....

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.				
1901	h h	s	s	s
Dec. 6	14.5	.....	.....	−0.037
6	16.3	.....	.....	+0.009
7	20.5	.....	.....	+0.070
7	1.2— 1.5	+0.001	+0.183	.....
7	0.0	.....	.....	+0.087
7	1.6	.....	.....	+0.113
8	1.2— 1.5	+0.012	+0.064	.....
8	1.0	.....	.....	+0.006
8	2.2	.....	.....	+0.025
9	13.4—13.8	+0.014	+0.078	−0.134
9–10	14.1—20.8	+0.013	.....	−0.126
9	15.3	.....	+0.056	.....
9	16.6	.....	+0.072	.....
10	19.9	.....	+0.107	.....
10	12.9—13.9	−0.053	+0.046	−0.218
10–11	14.1—20.8	−0.057	+0.038	.....
10	14.4	.....	.....	−0.200
10	16.7	.....	.....	−0.164
11	20.8	.....	.....	−0.137
11	13.4—13.9	−0.051	+0.035	−0.215
11–12	14.1—21.2	−0.056	+0.021	−0.230
14	13.4—14.2	−0.054	+0.041	−0.282
15	19.6—22.1	−0.043	+0.034	−0.304
15	12.9—13.9	−0.079	+0.002	−0.285
16	1.2— 1.7	−0.062	+0.012	.....
16	1.0	.....	.....	−0.131
16	2.2	.....	.....	−0.109
16–17	14.6—23.0	−0.047	+0.098	−0.278
17	1.2— 1.5	−0.051	+0.061	−0.220
18	23.5— 0.1	−0.048	+0.020	−0.086
18	1.2— 1.7	−0.059	+0.058	−0.102
19	0.0— 1.3	−0.051	+0.049	+0.052
20	1.2— 1.8	−0.053	+0.053	.....
20	0.0	.....	.....	+0.010
20	1.2	.....	.....	+0.087
20	2.0	.....	.....	+0.113
21	12.8—13.5	−0.072	+0.012	−0.064
22	3.1— 4.0	−0.052	+0.034	+0.040
23	12.8—13.5	−0.068	+0.012	+0.039
23–24	15.1—21.7	−0.067	+0.032	+0.079
24	5.3— 6.2	−0.067	−0.026	+0.040
25	5.7— 7.5	−0.064	−0.028	+0.022
26	12.9—13.9	−0.062	−0.020	−0.012
26–27	15.5—21.7	−0.058	−0.026	+0.001
27	1.2— 1.5	−0.070	+0.010	−0.022
1901	h h	s	s	s
Dec. 27	5.4— 9.3	−0.074	−0.014	+0.024
30	11.2—12.0	−0.070	−0.012	−0.071
30–31	15.7—21.8	−0.066	+0.019	.....
30	16.1	.....	.....	−0.056
30	18.0	.....	.....	−0.017
31	21.1	.....	.....	+0.010
31	1.2— 1.5	−0.055	.....	.....
31	0.6	.....	+0.021	+0.019
31	1.6	.....	+0.016	+0.006
31	12.1—12.7	−0.066	+0.015	−0.098
1902				
Jan. 1– 2	17.1—23.0	−0.058	−0.011	.....
1	16.8	.....	.....	−0.171
1	18.3	.....	.....	−0.124
2	22.2	.....	.....	−0.043
2– 3	16.3—22.1	−0.070	−0.028	−0.104
3	1.2— 1.5	−0.076	−0.018	−0.142
3	13.4—13.9	−0.090	+0.003	−0.154
3– 4	14.6—22.1	−0.070	−0.020	−0.111
4	14.7—16.0	−0.076	+0.048	−0.101
7– 8	16.4—22.1	−0.063	−0.019	−0.081
11	4.0— 7.0	−0.070	−0.010	−0.096
12	4.9— 7.0	−0.080	−0.041	−0.117
12–13	17.1—23.0	−0.059	.....	−0.030
12	16.7	.....	−0.089	.....
12	19.0	.....	−0.056	.....
13	23.2	.....	−0.036	.....
13	4.0— 7.0	−0.073	−0.042	−0.076
13–14	17.1— 0.0	−0.065	−0.043	−0.091
14	4.0— 7.0	−0.071	−0.045	−0.092
14–15	17.1— 1.0	−0.069	−0.053	.....
14	16.8	.....	.....	−0.092
14	19.1	.....	.....	−0.065
15	23.5	.....	.....	+0.010
16	4.0— 7.0	−0.069	.....	−0.039
16	3.9	.....	−0.104	.....
16	6.4	.....	−0.086	.....
16	8.3	.....	−0.068	.....
16–17	17.0—22.7	+0.030	.....	−0.076
16	17.3	.....	−0.010	.....
16	19.5	.....	+0.003	.....
17	22.4	.....	+0.051	.....
17	4.0— 7.0	+0.027	+0.011	−0.003
17	2.0— 2.6	+0.033	+0.034	−0.043
19	3.6— 6.4	+0.038	+0.006	+0.007

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*	Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
1902	h h	s	s	s	1902	h h	s	s	s
Jan. 19–20	17.0—23.0	+0.027	.....	−0.040	Feb. 13	21.2	.....	+0.174	.....
19	17.7	.....	+0.014	.....	14	0.5	.....	+0.212	.....
19	19.2	.....	+0.046	.....	14	2.3— 3.0	+0.020	+0.212	+0.109
20	22.9	.....	+0.082	.....	14	3.1— 3.5	+0.021	+0.172	+0.109
20	4.7— 5.9	+0.029	+0.005	−0.008	14	6.9— 7.4	+0.021	+0.140	+0.164
23	5.7— 8.7	+0.033	+0.062	−0.006	17	5.7— 6.4	−0.072	+0.014	+0.030
27	11.7—12.5	+0.030	+0.087	−0.062	17–18	18.7— 1.1	−0.070	+0.023	+0.015
27–28	17.5—22.3	+0.034	+0.082	−0.077	18	5.5— 7.4	−0.062	+0.014	+0.052
28	4.0— 5.0	+0.024	+0.078	−0.087	18–19	19.6— 1.1	−0.076	+0.016	+0.056
Feb. 2– 3	16.8—23.0	+0.035	.....	+0.083	19	5.5— 8.5	−0.076	+0.009	.....
2	18.2	.....	+0.072	.....	19	5.6	.....	.....	+0.061
2	20.4	.....	+0.093	.....	19	7.4	.....	.....	+0.124
3	23.5	.....	+0.107	.....	23	6.9— 7.4	−0.055	−0.012	+0.122
3	4.0— 7.0	+0.023	.....	.....	23–24	18.9— 2.2	−0.055	−0.025	.....
3	3.8	.....	+0.114	+0.042	23	19.2	.....	.....	+0.042
3	5.3	.....	+0.112	+0.055	23	21.8	.....	.....	+0.085
3	6.4	.....	+0.110	+0.061	24	1.2	.....	.....	+0.128
3	7.1	.....	+0.099	+0.086	26	6.9— 7.4	−0.067	−0.060	+0.158
4	4.0— 7.0	+0.024	.....	.....	26	13.6—14.8	−0.058	−0.046	+0.115
4	3.8	.....	+0.126	+0.038	28	15.1—16.0	−0.055	−0.016	+0.027
4	5.3	.....	+0.103	+0.035	28– 1	19.6— 2.1	−0.067	−0.005	.....
4	6.6	.....	+0.080	+0.055	28	20.0	.....	.....	+0.012
4	8.3	.....	+0.053	+0.050	28	22.3	.....	.....	+0.061
4– 5	18.2— 0.1	+0.009	+0.080	+0.042	Mar. 1	1.5	.....	.....	+0.130
5– 6	17.8— 0.9	+0.016	+0.135	.....	3	6.9— 7.4	−0.064	+0.002	−0.095
5	18.3	.....	.....	−0.040	5– 6	19.3— 1.1	−0.055	.....	−0.110
5	20.3	.....	.....	−0.026	5	20.0	.....	+0.007	.....
6	23.6	.....	.....	+0.036	6	1.6	.....	+0.055	.....
6– 7	18.5—23.0	+0.021	+0.153	+0.047	6	6.9— 7.4	−0.059	+0.016	−0.090
7– 8	18.5— 0.6	+0.029	+0.155	+0.010	6– 7	19.4— 1.1	−0.040	−0.027	.....
8	6.9— 7.4	+0.032	+0.114	+0.072	6	20.2	.....	.....	−0.078
9	6.9— 7.4	+0.024	+0.094	+0.148	6	22.3	.....	.....	−0.053
9–10	18.2— 0.6	+0.028	.....	+0.121	7	1.3	.....	.....	+0.073
9	19.5	.....	+0.053	.....	9	4.9— 6.2	−0.036	+0.039	−0.035
9	20.8	.....	+0.073	.....	9	16.9—18.3	−0.041	+0.050	−0.130
10	23.6	.....	+0.102	.....	9–10	19.6— 2.1	−0.043	+0.047	−0.108
11–12	18.5— 1.9	+0.040	+0.101	+0.093	10	4.3— 6.2	−0.024	+0.061	−0.010
12–13	18.2— 2.2	+0.030	.....	+0.078	11	4.3— 6.1	−0.026	+0.037	+0.014
12	19.4	.....	+0.088	.....	13	1.8— 3.7	−0.044	+0.001	−0.147
12	21.1	.....	+0.102	.....	13–14	20.1— 3.9	−0.041	+0.019	.....
13	1.1	.....	+0.156	.....	13	20.4	.....	.....	−0.345
13	6.9— 7.4	+0.008	+0.118	+0.102	13	22.7	.....	.....	−0.341
13–14	18.7— 1.1	+0.020	.....	+0.114	14	4.0	.....	.....	−0.207
13	19.2	.....	+0.154	.....	19	8.1— 8.9	−0.056	+0.018	−0.236

Table VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*	Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
1902	h h	s	s	s	1902	h h	s	s	s
Mar. 19–20	20.7— 2.1	—0.044	.....	.....	Apr. 11	0.9	.....	.....	—0.146
19	20.8	.....	.....	—0.226	12	5.6	.....	.....	—0.075
19	20.9	.....	+0.012	.....	12	9.3—13.4	—0.026	+0.036	—0.215
19	23.2	.....	.....	—0.180	13	9.3—13.4	—0.028	+0.023	—0.285
19	23.4	.....	+0.068	.....	13	22.0— 0.1	—0.036	+0.034	—0.256
20	2.4	.....	.....	—0.163	15	7.3— 9.1	—0.024	—0.010	.....
20	2.7	.....	+0.074	.....	15	7.1	.....	.....	—0.184
20	9.1—10.0	—0.048	+0.014	—0.112	15	9.4	.....	.....	—0.253
20	16.9—18.3	—0.036	+0.015	—0.140	15	13.0—13.4	—0.013	+0.012	—0.171
20–21	20.7— 2.1	—0.034	+0.011	.....	15–16	22.7— 4.6	—0.027	.....	.....
20	21.4	.....	.....	—0.109	15	23.3	.....	—0.030	—0.283
20	23.4	.....	.....	—0.054	15	0.9	.....	.....	—0.246
21	1.4	.....	.....	—0.053	15	1.0	.....	—0.038	.....
21	10.2—10.8	—0.042	+0.016	—0.060	16	3.9	.....	.....	—0.192
22	11.0—12.0	—0.036	+0.022	—0.114	16	4.2	.....	+0.018	.....
22	16.9—18.3	—0.046	+0.022	—0.189	17	9.7—10.7	+0.022	+0.046	—0.113
23	6.0— 7.0	—0.022	+0.036	—0.053	17	13.0—13.4	+0.038	+0.028	—0.074
23	11.7—12.7	—0.044	.....	—0.134	18	10.4—11.6	+0.020	+0.036	—0.132
23	11.3	.....	—0.001	.....	19	11.3—12.2	+0.038	.....	.....
23	13.3	.....	+0.063	....	19	10.9	.....	+0.035	.....
23	18.0—19.1	—0.034	+0.015	—0.163	19	11.1	.....	.....	—0.198
23–24	21.1— 2.1	—0.046	+0.009	.....	19	12.6	.....	.....	—0.144
23	20.9	.....	.....	—0.141	19	13.0	.....	—0.017	.....
23	23.3	.....	.....	—0.170	20	9.3—10.1	+0.040	+0.051	—0.141
24	2.2	.....	.....	—0.072	20	12.2—13.1	+0.012	+0.052	—0.182
24	12.4—13.5	—0.044	—0.035	—0.212	21	9.3—10.1	+0.026	+0.052	—0.071
24–25	21.1— 2.1	—0.043	+0.017	.....	22	9.3—10.1	+0.022	+0.012	—0.066
24	21.0	.....	.....	—0.272	22	13.8—14.5	+0.007	+0.008	—0.040
24	23.6	.....	.....	—0.224	23	9.3—13.4	+0.009	.....	.....
25	1.9	.....	.....	—0.217	23	9.2	.....	.....	—0.171
25	6.0— 7.1	—0.035	—0.002	—0.171	23	10.0	.....	+0.016	—0.188
25	13.3—14.2	—0.054	—0.008	—0.236	23	10.8	.....	.....	—0.185
25	18.0—19.1	—0.044	+0.018	—0.220	23	11.2	.....	—0.012	—0.190
25–26	21.1— 4.6	—0.058	+0.032	—0.143	23	12.0	.....	.....	—0.212
26	9.3—10.1	—0.034	—0.018	—0.164	23	13.2	.....	—0.026	—0.268
27	9.3—10.1	—0.027	—0.028	—0.142	23	14.7—15.8	—0.012	—0.019	—0.294
29	9.3—13.4	—0.027	—0.032	—0.183	23–24	21.6— 5.4	—0.007	+0.059	.....
29	16.5—18.0	—0.034	+0.008	—0.219	23	22.3	.....	.....	—0.375
30	9.3—10.1	—0.026	—0.013	—0.222	23	1.0	.....	.....	—0.335
31	18.2—19.4	—0.025	—0.114	—0.295	24	5.0	.....	.....	—0.298
Apr. 3	9.3—13.4	—0.028	—0.106	—0.215	24	9.3—13.4	+0.011	+0.032	—0.246
5	9.3—13.4	—0.028	—0.069	—0.159	24	15.6—17.6	+0.014	+0.017	—0.240
11–12	21.6— 5.6	—0.028	+0.024	.....	26	9.3—10.1	+0.020	+0.036	—0.194
11	22.0	.....	.....	—0.238	26	17.0—18.2	—0.012	—0.005	—0.314

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*	Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
1902	h h	s	s	s	1902	h h	s	s	s
Apr. 27	9. 3—13. 4	+0. 014	—0. 037	.....	May 18	12. 9—13. 5	—0. 027	—0. 034	—0. 365
27	9. 3	.....	.....	—0. 310	19	13. 4—14. 3	—0. 030	—0. 024	—0. 330
27	10. 0	.....	.....	—0. 323	19–20	1. 0— 5. 9	—0. 057	.....	—0. 415
27	12. 3	.....	.....	—0. 273	19	1. 2	.....	+0. 006	.....
27	13. 2	.....	.....	—0. 249	19	3. 1	.....	+0. 032	.....
27	17. 0—18. 9	—0. 010	—0. 038	—0. 310	20	5. 6	.....	+0. 084	.....
29	19. 9—20. 6	+0. 008	—0. 022	—0. 294	21	14. 7—18. 2	—0. 037	—0. 051	.....
29	22. 9— 1. 1	—0. 012	.....	.....	21	14. 2	.....	.....	—0. 483
29	22. 8	.....	+0. 018	.....	21	16. 8	.....	.....	—0. 415
29	23. 1	.....	.....	—0. 306	21–22	0. 0— 5. 6	—0. 045	+0. 009	.....
29	1. 6	.....	.....	—0. 301	21	0. 9	.....	.....	—0. 469
29	1. 7	.....	+0. 003	.....	21	3. 2	.....	.....	—0. 397
30	9. 3—13. 4	+0. 004	—0. 006	—0. 252	22	5. 7	.....	.....	—0. 348
30	20. 5—21. 5	+0. 002	+0. 002	—0. 367	22	12. 9—13. 4	—0. 041	0. 000	—0. 336
30– 1	22. 2— 5. 4	—0. 002	—0. 001	.....	22	15. 9—17. 1	—0. 039	—0. 018	—0. 324
30	23. 3	.....	.....	—0. 407	22–23	0. 1— 6. 6	—0. 060	.....	.....
30	1. 5	.....	.....	—0. 403	22	0. 3	.....	+0. 024	.....
May 1	5. 5	.....	.....	—0. 333	22	0. 4	.....	.....	—0. 403
1	9. 3—13. 4	+0. 016	—0. 043	—0. 232	22	3. 1	.....	+0. 023	.....
1	20. 7—22. 7	+0. 004	—0. 058	—0. 384	22	3. 2	....	.....	—0. 358
1– 2	22. 9— 5. 4	- 0. 012	—0. 003	—0. 380	23	6. 8	.....	+0. 064	.....
4– 5	22. 9— 5. 9	—0. 014	.....	.....	23	6. 9	.....	.....	—0. 351
4	23. 3	.....	.....	—0. 433	25	16. 5—22. 1	—0. 043	—0. 032	—0. 462
4	23. 5	.....	+0. 009	.....	25–26	1. 0— 7. 6	—0. 053	.....	.....
4	1. 1	.....	.....	—0. 390	25	1. 2	.....	.....	—0. 464
4	2. 2	.....	+0. 001	.....	25	1. 6	.....	—0. 008	.....
5	5. 7	.....	.....	—0. 272	25	3. 4	.....	.....	—0. 417
5	6. 2	.....	+0. 051	.....	25	3. 6	.....	—0. 004	.....
5– 6	23. 9— 5. 5	—0. 056	—0. 018	—0. 401	26	7. 0	.....	.....	—0. 404
7– 8	23. 9— 5. 5	—0. 036	—0. 029	.....	26	7. 5	.....	+0. 027	.....
7	0. 4	.....	.....	—0. 474	27	21. 1—21. 6	—0. 051	—0. 086	—0. 556
7	2. 3	.....	.....	—0. 532	28	19. 7—22. 6	—0. 045	—0. 102	.....
8	5. 7	.....	.....	—0. 475	28	20. 4	. ...	.....	—0. 515
8	13. 0—13. 9	—0. 039	—0. 066	—0. 441	28	22. 6	.....	.....	—0. 460
9	12. 8—13. 4	—0. 045	—0. 082	—0. 506	28–29	0. 6— 6. 3	—0. 040	—0. 082	—0. 468
9–10	22. 0— 7. 7	—0. 035	—0. 037	—0. 505	29	13. 3—13. 7	—0. 044	—0. 110	.....
11	12. 9—13. 4	—0. 046	—0. 064	—0. 451	29	12. 8	.....	.....	—0. 475
12	12. 8—13. 4	—0. 036	—0. 054	—0. 382	29	13. 9	.....	.....	—0. 458
13–14	22. 7— 6. 6	—0. 039	—0. 014	—0. 409	29	19. 8—22. 7	—0. 040	—0. 100	—0. 398
14–15	0. 0— 5. 5	—0. 033	—0. 023	—0. 408	30	13. 3—13. 7	—0. 042	—0. 115	.....
15	10. 2—11. 3	—0. 026	—0. 050	—0. 356	30	12. 7	.....	.....	—0. 379
15	12. 8—13. 4	—0. 040	—0. 066	—0. 364	30	13. 9	.....	.....	—0. 333
15	16. 8—18. 2	—0. 026	—0. 077	—0. 340	June 1	13. 3—13. 7	—0. 048	—0. 109	—0. 390
17	12. 0—13. 0	—0. 040	—0. 044	—0. 278	1– 2	1. 0— 7. 3	—0. 050	—0. 049	—0. 376

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.				
1902	h h	s	s	s
June 2	13.3—13.7	−0.046	−0.079	−0.343
2– 3	1.0— 7.5	−0.058	−0.023	.....
2	1.6	.....	.....	−0.373
2	4.0	.....	.....	−0.388
3	6.6	.....	.....	−0.330
3– 4	1.0— 7.7	−0.066	.....	−0.484
3	1.4	.....	−0.083	.....
3	4.1	.....	−0.079	.....
4	8.0	.....	−0.046	.....
4	13.3—13.7	−0.052	.....	−0.531
4	12.7	.....	−0.076	.....
4	14.5	.....	−0.088	.....
4	1.4— 3.0	+0.012	+0.004	−0.328
5	13.3—13.7	+0.009	−0.045	−0.348
5– 6	1.0— 7.3	+0.017	−0.035	−0.292
6	13.3—13.7	+0.011	−0.069	−0.274
8	13.3—13.7	+0.009	−0.063	−0.345
8– 9	1.8— 9.3	+0.002	−0.058	.....
8	1.8	.....	.....	−0.359
8	4.4	.....	.....	−0.312
9	8.4	.....	.....	−0.271
9	13.3—13.7	+0.008	−0.083	−0.318
9–10	2.0— 9.7	0.000	−0.053	.....
9	2.5	.....	.....	−0.334
9	4.4	.....	.....	−0.293
10	8.9	.....	.....	−0.215
10	13.3—13.7	+0.020	−0.065	−0.220
11–12	2.5—11.8	+0.016	−0.068	.....
11	2.7	.....	.....	−0.398
11	4.7	.....	.....	−0.333
12	8.3	.....	.....	−0.275
12	11.9	.....	.....	−0.183
12–13	1.8— 7.7	+0.048	−0.022	.....
12	2.3	.....	.....	−0.330
12	4.8	.....	.....	−02.62
13	7.3	.....	.....	−0.209
14	12.2—13.4	+0.046	−0.093	−0.217
16–17	2.6— 7.7	+0.022	.....	.....
16	2.5	.....	−0.026	−0.407
16	4.9	.....	−0.082	.....
16	5.0	.....	.....	−0.423
17	7.3	.....	−0.048	.....
17	7.6	.....	.....	−0.351
17	14.9—15.8	+0.027	−0.083	−0.322
June 17–18	1.8— 7.6	.....	−0.058	.....
17	1.2	−0.015	.....	.....
17	1.3	.....	.....	−0.374
17	4.7	+0.009	.....	.....
17	4.8	.....	.....	−0.396
18	7.8	+0.025	.....	.....
18	7.9	....	.....	−0.335
18	15.9—17.3	+0.017	−0.118	−0.337
19	16.3—18.0	+0.022	−0.078	−0.338
19–20	2.6— 7.7	+0.020	−0.049	.....
19	3.4	.....	.....	−0.328
19	5.4	.....	.....	−0.313
20	7.4	.....	.....	−0.262
21	16.8—17.0	+0.011	−0.068	−0.376
21	17.0—21.4	+0.007	−0.106	−0.348
23	16.8—17.0	+0.012	−0.102	−0.315
23	19.7—21.6	+0.012	−0.087	−0.329
23–24	2.9— 7.5	+0.015	.....	−0.297
23	3.1	.....	−0.037	.....
23	5.6	.....	−0.054	.....
24	9.5	.....	−0.082	.....
24	19.7—21.6	+0.017	−0.086	−0.308
25–26	1.8— 9.4	+0.017	−0.075	−0.290
30– 1	3.7—11.2	+0.015	−0.011	−0.310
July 1– 2	2.9—10.1	.....	−0.005	.....
1	2.2	−0.006	.....	.....
1	2.3	.....	.....	−0.299
1	5.8	+0.012	.....	.....
1	5.9	.....	.....	−0.286
2	7.1	+0.023	.....	.....
2	8.2	.....	.....	−0.197
4– 5	2.9—10.1	+0.032	.....	.....
4	3.3	.....	.....	−0.344
4	4.1	.....	+0.033	.....
4	6.1	.....	.....	−0.313
4	6.2	.....	+0.005	.....
5	8.9	.....	.....	−0.280
5	9.0	.....	−0.021	.....
8	16.8—17.0	+0.035	−0.048	.....
8	16.6	.....	.....	−0.272
8	17.4	.....	.....	−0.242
8– 9	4.5—11.8	+0.034	−0.014	.....
8	3.4	.....	.....	−0.404
8	6.4	.....	.....	−0.335

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*	Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
1902	h h	s	s	s	1902	h h	s	s	s
July 9	11.4	.....	.....	—0.259	July 23	9.6	.....	.....	—0.271
10	16.8—17.0	+0.025	—0.080	—0.381	23	22.5—23.2	+0.032	—0.162	—0.332
10–11	4.5—10.3	.....	—0.077	.....	23–24	5.1—11.8	+0.041	—0.117	.....
10	4.4	.....	.....	—0.355	23	5.0	.....	.....	—0.333
10	4.7	+0.029	.....	.....	23	7.4	.....	.....	—0.310
10	6.5	+0.042	.....	.....	24	11.6	.....	.....	—0.268
10	6.7	.....	.....	—0.307	24	23.5— 0.2	+0.014	—0.173	—0.396
11	10.4	+0.060	.....	.....	27	16.1—16.5	+0.042	—0.072	—0.280
11	10.5	.....	.....	—0.320	31	16.1—16.6	+0.025	—0.057	—0.354
11	12.2—13.1	+0.051	—0.119	—0.318	31– 1	5.7—13.4	+0.039	—0.029	.....
12	12.9—14.2	+0.040	—0.142	—0.310	31	6.2	.....	.....	—0.348
13	14.1—14.8	+0.023	—0.150	—0.277	31	8.1	.....	.....	—0.293
13–14	3.7—11.2	+0.036	—0.106	—0.379	Aug. 1	12.0	.....	.....	—0.273
14	14.1—16.1	+0.022	—0.152	—0.345	1– 2	5.0—12.9	+0.027	—0.032	.....
14	4.5— 5.9	+0.028	—0.100	.....	1	5.7	.....	.....	—0.373
14	4.7	.....	.....	—0.389	1	8.0	.....	.....	—0.376
14	7.1	.....	.....	—0.348	2	12.7	.....	.....	—0.246
15	15.9—19.3	+0.036	—0.116	—0.302	2	16.1—16.6	+0.041	—0.053	—0.346
15–16	3.8—13.4	+0.016	—0.087	.....	3	16.1—16.4	+0.053	—0.063	—0.330
15	4.3	.....	.....	—0.353	3– 4	5.1—12.5	+0.033	—0.019	.....
15	6.9	.....	.....	—0.429	3	5.0	.....	.....	—0.387
16	9.6	.....	.....	—0.405	3	8.1	.....	.....	—0.364
16	16.3—17.1	+0.020	—0.130	—0.345	4	11.5	.....	.....	—0.281
16–17	5.1—11.2	+0.044	—0.126	.....	4	16.1—16.6	+0.020	—0.063	—0.432
16	6.6	.....	.....	—0.408	4– 5	5.3—13.4	+0.027	—0.041	—0.369
16	7.5	.....	.....	—0.359	6– 7	5.3—13.4	+0.031	—0.083	.....
17	10.7	.....	.....	—0.276	6	6.0	.....	.....	—0.416
17	16.5—21.6	+0.035	—0.130	—0.311	6	8.1	.....	.....	—0.409
17	4.5— 5.6	+0.030	—0.120	—0.280	7	13.2	.....	.....	—0.369
21	20.8—21.6	+0.023	—0.117	—0.387	7	16.1—16.6	+0.041	—0.113	—0.382
21–22	4.8—12.5	+0.030	—0.089	.....	7– 8	5.8—13.9	.....	—0.074	.....
21	4.0	.....	.....	—0.402	7	6.0	.....	.....	—0.364
21	7.5	.....	.....	—0.325	7	6.1	+0.012	.....	.....
22	11.5	.....	.....	—0.295	7	8.6	+0.037	.....	.....
22	16.1—16.6	+0.019	—0.112	—0.368	7	8.7	.....	.....	—0.311
22	19.2—22.3	+0.016	.....	—0.344	8	12.4	+0.059	.....	.....
22	18.9	.....	—0.146	.....	8	12.5	.....	.....	—0.288
22	22.7	.....	—0.192	.....	8– 9	5.8—14.2	.....	—0.096	.....
22–23	3.8—11.2	.....	—0.118	.....	8	6.0	.....	.....	—0.413
22	4.0	—0.005	.....	.....	8	6.4	+0.010	.....	.....
22	4.1	.....	.....	—0.402	8	8.4	+0.031	.....	.....
22	7.0	+0.026	.....	.....	8	8.5	.....	.....	—0.377
22	7.1	.....	.....	—0.281	9	13.6	.....	.....	—0.358
23	9.5	+0.030	.....	.....	9	13.7	+0.050	.....	.....

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.				
1902	h h	s	s	s
Aug. 11	15.5—17.4	+0.030	−0.076	.....
11	14.8	.....	.....	−0.393
11	17.7	.....	.....	−0.483
11	19.3—20.3	+0.023	−0.105	−0.435
11–12	5.8—12.9	+0.035	−0.083	−0.426
12	16.0—17.6	+0.049	−0.140	−0.407
12	19.3—20.3	+0.036	−0.117	−0.429
12–13	6.5—14.7	+0.038	−0.115	−0.369
14–15	6.2—13.9	+0.035	−0.084	.....
14	6.6	.....	.....	−0.414
14	9.1	.....	.....	−0.347
15	13.2	.....	.....	−0.303
16	12.9—13.9	+0.051	−0.074	−0.369
16	18.1—21.5	+0.022	−0.116	.....
16	17.9	.....	.....	−0.412
16	21.2	.....	.....	−0.358
17	18.8—21.4	+0.033	−0.100	−0.356
17–18	6.5—14.8	+0.033	.....	.....
17	6.4	.....	.....	−0.413
17	6.9	.....	−0.084	.....
17	8.9	.....	−0.119	.....
17	9.1	.....	.....	−0.421
18	14.5	.....	.....	−0.321
18	14.9	.....	−0.074	.....
18	18.8—22.3	+0.030	−0.097	−0.345
18	6.8	+0.025	.....	.....
18	6.9	.....	.....	−0.372
18	7.0	.....	−0.062	.....
18	8.9	+0.040	.....	.....
18	9.1	.....	.....	−0.328
18	9.2	.....	−0.078	.....
19	13.9	.....	−0.020	.....
19	14.1	.....	.....	−0.288
19	14.3	+0.060	.....	.....
19	18.9—20.3	+0.038	−0.085	−0.340
19	22.3—23.2	+0.034	−0.080	−0.364
20	19.3—20.3	+0.041	−0.066	−0.370
21	19.3—20.0	+0.031	−0.055	−0.333
21–22	6.6—14.5	+0.037	−0.043	−0.396
22	19.3—20.3	+0.038	−0.075	−0.394
22	0.7— 1.4	+0.040	.....	−0.431
22	0.6	.....	−0.032	.....
22	1.6	.....	−0.090	.....
22–23	6.5—13.9	+0.023	−0.091	−0.436
SIX-INCH TRANSIT CIRCLE—Continued.				
1902	h h	s	s	s
Aug. 23	19.3—19.9	+0.032	−0.102	−0.353
23	1.6— 2.4	+0.018	−0.115	−0.452
24	19.3—20.3	+0.038	−0.126	−0.373
24	2.7— 3.5	+0.032	.....	−0.398
24	2.5	.....	−0.098	.....
24	3.3	.....	−0.136	.....
24–25	7.2—14.2	+0.039	.....	−0.402
24	7.9	.....	−0.129	.....
24	9.8	.....	−0.108	.....
25	13.5	.....	−0.078	.....
25	19.3—20.3	+0.034	−0.126	−0.385
25	3.7— 4.4	+0.032	−0.121	−0.408
25–26	6.6—14.7	+0.037	−0.091	.....
25	7.1	.....	.....	−0.392
25	9.7	.....	.....	−0.403
26	13.5	.....	.....	−0.287
26	4.5— 5.4	+0.010	−0.141	−0.404
26	7.1	+0.013	.....	.....
26	7.8	.....	−0.092	.....
26	7.9	.....	.....	−0.394
26	9.8	+0.023	.....	.....
26	9.9	.....	.....	−0.358
26	10.0	.....	−0.104	.....
27	13.4	+0.047	.....	.....
27	13.5	.....	.....	−0.316
27	13.7	.....	−0.064	.....
27	5.8— 6.6	−0.069	−0.026	−0.300
27–28	7.4—14.2	−0.056	+0.025	.....
27	8.5	.....	.....	−0.290
27	9.5	.....	.....	−0.272
28	14.5	.....	.....	−0.235
28	19.2—19.6	−0.058	−0.036	−0.279
28–29	7.4—14.2	−0.060	.....	−0.274
28	8.3	.....	−0.023	.....
28	10.1	.....	−0.028	.....
29	13.6	.....	+0.019	.....
29	19.2—19.6	−0.049	−0.011	.....
29	19.1	.....	.....	−0.274
29	20.0	.....	.....	−0.250
30	19.2—19.6	−0.065	0.000	.....
30	19.1	.....	.....	−0.227
30	20.0	.....	.....	−0.191
31	19.2—19.6	−0.046	+0.019	.....
31	19.1	.....	.....	−0.207

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*	Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
1902	h h	s	s	s	1902	h h	s	s	s
Aug. 31	20. 1	.....	.....	−0. 198	Sept. 14	18. 9	.....	.....	−0. 262
Sept. 4	19. 2—19. 6	−0. 055	−0. 014	.....	14	21. 2	.....	.....	−0. 197
4	18. 9	.....	.....	−0. 324	14–15	9. 2—14. 2	−0. 064	.....	.....
4	19. 7	.....	.....	−0. 306	14	8. 1	.....	.....	−0. 293
4– 5	6. 7—14. 2	−0. 076	−0. 004	−0. 293	14	8. 2	.....	−0. 018	.....
5	19. 2—19. 6	−0. 050	−0. 026	.....	14	10. 7	.....	.....	−0. 347
5	17. 9	.....	.....	−0. 312	14	10. 8	....	+0. 018	.....
5	19. 5	.....	.....	−0. 259	15	13. 7	.....	.....	−0. 315
5	20. 6	.....	.....	−0. 230	15	14. 4	.....	+0. 020	.....
5– 6	6. 5—15. 3	−0. 049	.....	−0. 230	15	21. 8—22. 5	−0. 054	−0. 037	−0. 211
5	6. 9	.....	−0. 021	.....	16	22. 6—23. 4	−0. 058	−0. 020	−0. 252
5	10. 2	.....	+0. 015	.....	17–18	7. 3—15. 7	−0. 063	.....	−0. 231
6	14. 9	.....	+0. 039	.. ..	17	8. 0	.....	−0. 011	.....
7	14. 6—15. 7	−0. 052	−0. 013	−0. 202	17	11. 2	.....	+0. 032	.....
7– 8	6. 6—16. 6	−0. 051	.....	.....	18	16. 0	.....	+0. 029	.....
7	7. 1	.....	+0. 012	.....	18	0. 3— 1. 3	−0. 054	+0. 011	−0. 210
7	7. 2	.....	.....	−0. 294	22	23. 9— 0. 3	−0. 045	+0. 125	−0. 202
7	10. 4	.....	.....	−0. 195	22	4. 3— 5. 0	−0. 064	+0. 118	−0. 232
7	10. 5	.....	+0. 063	.....	23	23. 9— 0. 3	−0. 044	+0. 135	−0. 203
8	14. 4	.....	.....	−0. 201	23	5. 4— 6. 6	−0. 058	+0. 114	−0. 236
8	14. 5	.....	+0. 073	.....	28–29	9. 2—14. 7	−0. 064	.....	−0. 315
8	17. 0	.....	.....	−0. 227	28	9. 5	.....	+0. 155	.....
8	17. 4	.....	+0. 032	.....	28	11. 6	.....	+0. 152	.....
10	16. 3—21. 4	−0. 041	−0. 024	.....	29	14. 8	.....	+0. 197	.....
10	16. 0	.....	.....	−0. 277	29	23. 9— 0. 3	−0. 040	+0. 124	−0. 288
10	21. 1	.....	.....	−0. 181	30– 1	10. 0—14. 7	−0. 056	+0. 156	−0. 296
10–11	7. 6—13. 9	−0. 074	+0. 012	−0. 252	Oct. 1	23. 9— 0. 3	−0. 031	+0. 118	−0. 264
11	18. 1—20. 8	−0. 058	−0. 010	.....	1– 2	9. 2—15. 6	−0. 065	+0. 127	.....
11	18. 5	.....	.....	−0. 246	1	9. 2	.....	.....	−0. 344
11	20. 4	.....	.....	−0. 197	1	12. 0	.....	.....	−0. 333
11–12	7. 6—14. 5	−0. 062	.....	.....	2	14. 9	.....	.....	−0. 296
11	8. 1	.....	.....	−0. 271	2	23. 9— 0. 3	−0. 039	+0. 114	−0. 278
11	8. 3	.....	−0. 009	.....	2– 3	9. 2—15. 3	−0. 065	+0. 128	.....
11	10. 5	.....	.....	−0. 258	2	9. 1	.....	.....	−0. 333
11	10. 6	.....	+0. 008	.....	2	12. 0	.....	.....	−0. 283
12	13. 1	.....	.....	−0. 235	3	14. 6	.....	.....	−0. 342
12	13. 6	.....	+0. 029	.....	5– 6	10. 0—16. 9	.....	+0. 069	.....
12	18. 1—21. 4	−0. 048	−0. 020	.....	5	9. 8	+0. 003	.....	.....
12	17. 9	.....	.....	−0. 243	5	10. 0	.....	.....	−0. 415
12	21. 1	.....	.....	−0. 202	5	12. 1	+0. 028	.....	−0. 380
13	18. 5—20. 8	−0. 056	.....	−0. 262	6	16. 6	+0. 043	.....	−0. 366
13	18. 6	.....	−0. 014	.....	6	23. 9— 0. 3	+0. 031	+0. 062	−0. 392
13	21. 0	.....	−0. 092	.....	7	16. 3—18. 1	+0. 028	+0. 035	−0. 328
14	18. 5—21. 5	−0. 060	−0. 028	.....	8– 9	10. 0—19. 9	+0. 029	+0. 038	.....

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*	Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
1902	h h	s	s	s	1902	h h	s	s	s
Oct. 8	10.7	.....	.....	—0.378	Oct. 24–25	9.1—17.3	+0.069	+0.072	.....
8	12.4	.....	.....	—0.382	24	8.8	.....	.....	—0.270
9	17.0	.....	.....	—0.328	24	12.4	.....	.....	—0.261
9	19.8	.....	.....	—0.324	25	14.8	.....	.....	—0.220
9–10	9.6—14.2	.....	+0.037	.....	25	17.0	.....	.....	—0.161
9	9.5	+0.005	.....	.....	27–28	10.8—18.1	+0.054	+0.102	.....
9	9.9	.....	.....	—0.408	27	10.9	.....	.....	—0.315
9	12.0	+0.028	.....	.....	27	13.3	.....	.....	—0.300
9	12.1	.....	.....	—0.383	28	18.2	.....	.....	—0.269
10	14.8	+0.045	.....	.....	28	0.2— 1.5	+0.054	.....	—0.309
10	14.9	.....	.....	—0.358	28	23.7	.....	+0.096	.....
10	19.2—20.6	+0.033	+0.001	—0.360	28	1.8	.....	+0.034	.....
12	21.4—22.5	+0.033	+0.076	—0.300	28–29	11.1—17.1	+0.068	+0.060	.....
12–13	10.0—15.7	+0.026	.....	.....	28	11.0	.....	.....	—0.311
12	10.3	.....	.....	—0.311	28	13.6	.....	.....	—0.299
12	10.5	.....	+0.092	.....	29	17.2	.....	.....	—0.212
12	12.4	.....	.....	—0.313	29–30	11.1—17.2	+0.069	+0.033	.....
12	12.7	.....	+0.088	.....	29	11.3	.....	.....	—0.264
13	15.9	.....	.....	—0.256	29	13.4	....	.....	—0.257
13	16.1	.....	+0.132	.....	30	16.6	.....	.....	—0.203
13	22.0— 0.0	+0.035	+0.101	—0.241	30	0.2— 1.5	+0.060	+0.049	—0.214
14	22.8— 1.5	+0.018	+0.046	—0.352	30–31	11.2—19.5	+0.051	—0.001	.....
14–15	9.3—16.6	+0.019	+0.061	—0.391	30	11.0	.....	.....	—0.237
15	23.5— 1.5	+0.021	+0.042	—0.336	30	13.6	.....	.....	—0.259
15–16	10.2—16.5	+0.037	+0.025	.....	31	15.8	.....	.....	—0.199
15	10.6	.....	.....	—0.325	31	19.5	.....	.....	—0.213
15	12.6	.....	.....	—0.320	31– 1	10.7—17.2	+0.066	+0.042	.....
16	16.7	.....	.....	—0.265	31	11.4	.....	.....	—0.255
16	0.2— 1.7	+0.032	+0.032	—0.294	31	13.9	.....	.....	—0.236
18	0.2— 3.8	+0.060	+0.056	—0.290	Nov. 1	17.1	.....	.....	—0.215
19	4.1— 6.4	+0.052	+0.061	—0.304	1	0.2— 1.5	+0.062	+0.022	.....
19–20	10.2—16.4	+0.073	+0.060	—0.290	1	0.0	.....	.....	—0.265
20	4.9— 6.4	+0.058	+0.094	—0.366	1	1.7	.....	.....	—0.214
20–21	10.0—15.6	+0.056	+0.080	—0.331	2– 3	11.7—17.8	+0.071	+0.035	—0.194
21	6.0— 7.5	+0.055	+0.013	—0.348	3– 4	11.1—18.3	+0.049	.....	—0.206
21–22	10.0—16.2	+0.074	+0.027	.....	3	11.6	.....	+0.022	.....
21	10.4	.....	.....	—0.337	3	13.9	.....	+0.059	.....
21	12.7	.....	.....	—0.391	4	18.6	.....	+0.060	.....
22	15.4	.....	.....	—0.305	7	20.1—21.4	+0.055	.....	—0.246
22	6.1— 8.2	+0.064	+0.060	—0.296	7	19.5	.....	+0.106	.....
22–23	10.0—16.5	+0.058	+0.038	.....	7	21.6	.....	+0.066	.....
22	10.5	.....	.....	—0.299	9	22.0—22.6	+0.058	+0.094	—0.200
22	13.4	.....	.....	—0.240	9–10	12.8—17.8	+0.066	.....	.....
23	16.8	.....	.....	—0.213	9	12.5	.....	.....	—0.183

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*	Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
1902	h h	s	s	s	1902	h h	s	s	s
Nov. 9	12.7	.....	+0.108	.....	Dec. 1	23.9— 1.5	+0.012	+0.108	−0.138
9	14.1	.....	.....	−0.214	1– 2	13.3—18.6	+0.004	+0.113	−0.149
9	14.3	.....	+0.138	.....	3	19.0—19.8	+0.016	+0.124	−0.074
10	17.9	.....	.....	−0.131	5	20.4—21.7	+0.008	+0.136	−0.118
10	18.1	.....	+0.168	.....	7– 8	13.8—19.8	+0.016	+0.093	−0.058
12	0.1— 2.2	+0.070	+0.120	−0.154	8	23.3— 4.3	+0.007	+0.086	.....
12–13	12.8—17.2	.....	+0.122	.....	8	23.5	.....	.....	−0.046
12	12.3	+0.056	.....	.....	8	3.3	.....	.....	−0.010
12	12.4	.....	.....	−0.222	8– 9	14.1—19.5	+0.003	.....	.....
12	14.4	+0.079	.....	.....	8	14.3	.....	.....	−0.061
12	14.5	.....	.....	−0.169	8	14.9	.....	+0.096	.....
13	17.4	+0.095	.....	.....	8	16.4	.....	.....	−0.046
13	17.5	.....	.....	−0.104	8	16.5	.....	+0.049	.....
13	0.2 – 1.5	+0.070	+0.137	−0.152	9	19.3	.....	.....	−0.043
13	1.6 – 3.0	+0.075	+0.114	−0.162	9	19.7	.....	+0.118	.....
14	0.2— 3.5	+0.056	+0.108	−0.196	9	23.9— 4.3	+0.008	+0.096	.....
15	2.3— 5.5	+0.060	+0.124	−0.124	9	23.8	.....	.....	+0.010
16	4.6— 6.4	+0.046	.....	−0.222	9	4.7	.....	.....	+0.044
16	3.9	.....	+0.096	.....	9–10	13.3—19.5	+0.012	+0.143	.....
16	7.1	.....	+0.030	.....	9	14.1	.....	.....	−0.102
18–19	13.8—17.6	+0.070	+0.117	.....	9	16.1	.....	.....	−0.124
18	14.0	.....	.....	−0.230	10	19.1	.....	.....	−0.052
18	16.1	.....	.....	−0.198	10	1.0— 1.9	+0.016	+0.076	.....
19	17.9	.....	.....	−0.166	10	0.6	.....	.....	−0.119
19	0.0— 1.5	+0.058	+0.138	−0.213	10	2.5	.....	.....	−0.072
19	6.0— 9.1	+0.066	+0.116	.....	14	3.4— 6.7	+0.007	+0.152	.....
19	5.8	.....	.....	−0.259	14	3.2	.....	.....	−0.054
19	9.7	.....	.....	−0.176	14	6.9	.....	.....	−0.019
19–20	12.9—17.9	+0.057	+0.104	−0.189	17	7.9—12.3	+0.008	+0.186	.....
20	23.9— 1.5	+0.041	+0.107	−0.198	17	8.1	.....	.....	−0.068
20–21	12.8—17.8	+0.052	+0.114	.....	17	12.2	.....	.....	−0.023
20	13.6	.....	.....	−0.215	17–18	14.4—20.8	+0.012	.....	−0.047
20	14.8	.....	.....	−0.239	17	15.0	.....	+0.178	.....
21	17.3	.....	.....	−0.157	17	17.2	.....	+0.197	.....
21	23.9— 1.5	+0.079	+0.116	−0.151	18	20.4	.....	+0.253	.....
21	8.1—10.8	+0.059	+0.114	−0.252	18	7.9—13.5	+0.009	.....	.....
22	10.4—12.9	+0.056	+0.134	−0.268	18	7.7	.....	+0.230	.....
27–28	13.3—19.0	+0.058	+0.061	−0.180	18	7.8	.....	.....	−0.094
28	23.9— 1.5	+0.056	+0.080	−0.175	18	12.4	.....	+0.198	.....
28–29	12.8—17.9	+0.066	+0.069	−0.196	18	12.9	.....	.....	−0.031
30– 1	13.3—18.8	+0.058	.....	−0.176	18–19	15.1—20.8	+0.008	+0.180	−0.011
30	13.5	.....	+0.126	.....	21	8.6—13.5	+0.015	+0.216	−0.080
30	15.6	.....	+0.107	.....	22	11.0—13.9	+0.008	+0.266	−0.128
Dec. 1	19.7	.....	+0.090	.....	23	23.9— 2.7	+0.002	+0.200	−0.108

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*	Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE--Continued.				
1902	h h	s	s	s	1903	h h	s	s	s
Dec. 23	3. 1— 4. 4	0. 000	+0. 200	—0. 108	Jan. 18	14. 2	.....	+0. 193	.....
23	13. 6—16. 5	+0. 019	+0. 196	—0. 070	18–19	17. 0—23. 1	+0. 011	.....	—0. 038
25–26	15. 1—21. 2	—0. 005	+0. 241	—0. 142	18	17. 4	.....	+0. 258	.....
26	0. 0— 4. 0	+0. 004	+0. 182	—0. 130	18	19. 3	.....	+0. 264	.....
26–27	15. 5—21. 2	+0. 010	.....	+0. 026	19	22. 3	.....	+0 221	.....
26	15. 4	.....	+0. 162	.....	19	12. 0—12. 5	+0. 010	+0. 228	+0. 107
26	17. 9 ...	.....	+0. 154	.....	20–21	17. 2—23. 1	—0. 006	.....	+0. 032
27	20. 8	.....	+0. 126	.....	20	17. 0	.....	+0. 172	.....
27	3. 1— 4. 0	+0. 010	+0. 116	—0. 024	20	19. 3	.....	+0. 156	.....
29–30	15. 6—19. 8	+0. 016	+0. 127	.....	21	21. 9	.....	+0. 148	.....
29	16. 0	.....	.....	—0. 064	30	5. 8— 7. 5	+0. 002	+0. 255	—0. 120
29	18. 1	.....	.....	—0. 062	30–31	17. 5— 0. 2	+0. 009	+0. 262	.....
30	19. 9	.....	.....	+0. 012	30	17. 4	.....	.....	—0. 096
1903					30	19. 9	.....	.....	—0. 070
Jan. 6	0. 0— 1. 5	+0. 007	+0. 197	—0. 076	31	0. 0	.....	.....	+0. 005
8– 9	16. 4—23. 0	+0. 012	.....	.....	Feb. 5	2. 9— 4. 0	+0. 017	+0. 198	—0. 152
8	16. 7	.....	.....	—0. 001	6	4. 1— 7. 5	+0. 002	+0. 168	—0. 108
8	17. 0	.....	+0. 150	.....	8	5. 7— 7. 8	+0. 005	+0. 159	—0. 060
8	18. 8	.....	.....	—0. 095	8– 9	17. 5— 1. 1	+0. 009	+0. 160	—0. 136
8	19. 1	.....	+0. 196	.....	9	5. 5— 8. 0	+0. 012	.....	—0. 094
9	22. 2	.....	.....	—0. 109	9	5. 2	.....	+0. 194	.....
9	22. 4	.....	+0. 189	.....	9	8. 0	.....	+0. 146	.....
9	3. 1— 4. 3	—0. 004	+0. 164	—0. 096	9–10	17. 5— 2. 1	+0. 001	+0. 158	.....
9–10	16. 1—21. 7	0. 000	+0. 186	+0. 023	9	17. 6	.....	.....	—0. 167
10	3. 4— 6. 6	+0. 007	+0. 133	+0. 034	9	20. 6	.....	.....	—0. 125
11	5. 3— 7. 7	—0. 002	+0. 132	—0. 014	10	1. 6	.....	.....	—0. 031
11–12	16. 1—21. 7	+0. 003	.....	-0. 013	10	5. 5— 8. 9	—0. 005	+0. 129	—0. 054
11	16. 7	.....	+0. 156	.....	11	9. 4—10. 3	—0. 002	+0. 177	—0. 040
11	18. 9	.....	+0. 116	.....	11–12	18. 5— 1. 1	+0. 008	.....	.....
12	21. 6	.....	+0. 097	.....	11	17. 9	.....	+0. 169	.....
12	6. 0— 9. 1	+0. 006	.....	0. 000	11	18. 1	.....	.....	—0. 048
12	5. 3	.....	+0. 150	.....	12	21. 5	.....	.....	+0. 008
12	8. 9	.....	+0. 106	.....	12	21. 8	.....	+0. 210	.....
12–13	17. 1—22. 7	+0. 007	+0. 124	—0. 055	12	0. 5	.....	.....	+0. 096
13	6. 9— 9. 3	—0. 001	+0. 094	+0. 014	12	0. 8	.....	+0. 208	.....
14	7. 9—10. 5	0. 000	+0. 138	.....	12	9. 6—11. 2	+0. 018	+0. 220	-0. 046
14	8. 1	.....	.....	—0. 058	12–13	18. 5— 2. 1	+0. 014	.....	.....
14	10. 1	.....	.....	—0. 005	12	18. 3	.....	+0. 212	.....
14–15	17. 8—21. 7	+0. 020	+0. 137	+0. 025	12	18. 4	.....	.....	—0. 088
15	9. 9—13. 5	+0. 010	+0. 136	+0. 060	12	21. 0	.....	.....	—0. 048
15–16	17. 7—22. 7	+0. 019	+0. 118	+0. 052	12	21. 1	.....	+0. 195	.....
17	9. 9—13. 9	—0. 002	+0. 185	—0. 013	13	1. 2	.....	.....	+0. 035
18	9. 7—13. 7	+0. 002	.....	—0. 051	13	1. 6	.....	+0. 238	.....
18	10. 7	.....	+0. 161	.....	13	9. 6—13. 4	+0. 014	+0. 176	.....

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*	Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
1903	h h	s	s	s	1903	h h	s	s	s
Feb. 13	9.5	.....	.....	—0.056	Mar. 12	9.2—11.4	+0.008	+0.185	.....
13	12.5	.....	.....	—0.059	12	9.0	.....	.....	—0.085
13	13.7	.....	.....	—0.095	12	11.5	.....	.....	—0.128
17–18	19.4— 3.0	+0.005	.....	.....	12–13	19.4— 3.7	—0.002	+0.191	.....
17	19.6	.....	.....	—0.231	12	19.6	.....	.....	—0.149
17	20.2	.....	+0.233	.....	12	23.7	.....	.....	—0.152
17	21.0	.....	.....	—0.166	13	3.2	.....	.....	0.000
17	21.4	.....	+0.254	.....	13	11.5—13.7	+0.010	+0.162	—0.100
18	1.6	.....	+0.183	.....	13–14	20.3— 2.1	+0.030	+0.213	.....
18	1.7	.....	.....	—0.040	13	20.2	.....	.....	—0.121
18–19	18.5— 1.9	—0.010	.....	.....	13	22.9	.....	.....	—0.062
18	18.7	.....	+0.247	.....	14	2.3	.....	.....	—0.037
18	18.9	.....	.....	—0.378	14	11.9—13.7	+0.006	+0.176	—0.133
18	21.3	.....	+0.172	.....	17	12.0—15.8	+0.010	+0.144	—0.125
18	21.4	.....	.....	—0.325	17–18	20.3— 2.1	+0.016	+0.244	.....
19	1.3	.....	+0.173	.....	17	20.6	.....	.....	—0.151
19	1.4	.....	.....	—0.351	17	23.0	.....	.....	—0.109
19–20	19.6— 1.9	—0.001	+0.151	.....	18	1.9	.....	.....	—0.134
19	19.1	.....	.....	—0.284	24	6.6— 7.7	+0.007	+0.156	—0.224
19	21.4	.....	.....	—0.206	24–25	20.3— 3.1	+0.020	+0.227	.....
20	1.2	.....	.....	—0.062	24	20.0	.....	.....	—0.299
23–24	18.9— 1.9	+0.002	.....	.....	24	23.2	.....	.....	—0.298
23	19.1	.....	.....	+0.008	25	2.4	.....	.....	—0.247
23	19.4	.....	+0.198	.....	25	6.6— 7.7	+0.016	+0.202	—0.266
23	21.6	.....	.....	+0.028	25	20.0	.....	+0.203	.....
23	21.7	.....	+0.196	.....	25	20.3	—0.012	.....	.....
24	1.6	.....	.....	+0.137	25	20.4	.....	.....	—0.255
24	1.7	.....	+0.130	.....	25	23.2	+0.002	.....	.....
24–25	18.9— 1.1	—0.001	+0.201	.....	25	23.6	.....	+0.204	.....
24	18.9	.....	.....	—0.012	25	23.7	.....	.....	—0.232
24	21.4	.....	.....	—0.033	26	3.4	+0.048	.....	.....
25	0.4	.....	.....	+0.007	26	3.6	.....	+0.168	.....
25	5.7— 7.8	—0.004	+0.174	+0.019	26	4.0	.....	.....	—0.133
25–26	19.4— 1.9	+0.007	+0.196	.....	26	6.9— 7.4	+0.022	+0.180	—0.130
25	19.4	.....	.....	—0.033	26	19.9	.....	+0.219	.....
25	21.7	.....	.....	+0.032	26	20.2	+0.004	.....	.....
26	1.7	.....	.....	+0.082	26	20.3	.....	.....	—0.219
26	5.7— 7.3	—0.003	—0.189	+0.100	26	23.6	—0.003	.....	.....
Mar. 2– 3	19.6— 3.0	—0.004	+0.192	.....	26	23.7	.....	.....	—0.199
2	19.9	.....	.....	—0.072	26	23.8	.....	+0.190	.....
2	21.2	.....	.....	—0.031	27	4.1	+0.040	.....	.....
3	2.3	.....	.....	+0.057	27	4.2	.....	.....	—0.073
11	9.4—10.8	+0.003	+0.185	—0.102	27	4.6	.....	+0.172	.....
11–12	19.6— 3.0	+0.008	+0.196	—0.084	31	20.6	—0.009	.....	.....

Table VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
1903	h h	s	s	s
Mar. 31	21.0	.....	.....	−0.240
31	21.4	.....	+0.220	.....
31	23.8	+0.005	.....	.....
31	23.9	.....	.....	−0.182
31	0.2	.....	+0.216	.....
Apr. 1	4.7	+0.026	.....	.....
1	4.8	.....	.....	−0.220
1	5.0	.....	+0.172	.....
4	6.3—7.8	−0.021	.....	−0.452
4	6.3	.....	+0.233	.....
4	8.1	.....	+0.276	.....
5	6.7—9.6	+0.012	+0.194	−0.259
5–6	21.1—3.9	+0.016	+0.205	.....
5	21.4	.....	.....	−0.258
5	0.3	.....	.....	−0.222
6	4.0	.....	.....	−0.174
6	8.5—9.8	+0.023	+0.183	.....
6	8.4	.....	.....	−0.178
6	9.6	.....	.....	−0.220
8	10.4—11.2	+0.015	+0.195	−0.270
8–9	20.7—5.6	+0.011	.....	.....
8	20.6	.....	.....	−0.313
8	20.9	.....	+0.250	.....
8	0.5	.....	+0.252	.....
8	0.6	.....	.....	−0.200
9	5.4	.....	.....	−0.106
9	5.8	.....	+0.174	.....
9	11.3—13.4	+0.018	+0.211	−0.178
9–10	20.7—5.5	+0.008	+0.215	.....
9	20.5	.....	.....	−0.279
9	0.3	.....	.....	−0.306
10	5.7	.....	.....	−0.224
10	11.5—13.7	+0.006	+0.194	−0.271
16–17	21.1—5.6	0.000	+0.221	.....
16	20.8	.....	.....	−0.316
16	1.3	.....	.....	−0.260
17	5.2	.....	.....	−0.219
17	17.1—19.2	−0.001	.....	−0.338
17	16.7	.....	+0.213	.....
17	19.7	.....	+0.150	.....
17–18	21.1—5.2	+0.028	+0.247	.....
17	21.4	.....	.....	−0.271
17	0.8	.....	.....	−0.261
18	4.1	.....	.....	−0.217
Apr. 18	19.1—20.2	+0.002	+0.252	−0.348
19	19.9—21.7	+0.005	+0.215	−0.335
20–21	20.7—5.9	+0.014	+0.234	−0.362
23–24	20.7—6.8	+0.005	+0.189	.....
23	20.5	.....	.....	−0.363
23	1.2	.....	.....	−0.326
24	6.4	.....	.....	−0.227
26	11.5—13.4	−0.007	+0.216	−0.288
26–27	21.4—5.6	+0.017	+0.200	.....
26	21.6	.....	.....	−0.267
26	1.9	.....	.....	−0.231
27	5.7	.....	.....	−0.229
27	11.5—13.4	+0.024	+0.191	−0.216
27–28	21.4—5.6	.....	+0.186	.....
27	21.3	.....	.....	−0.322
27	21.8	−0.014	.....	.....
27	1.3	+0.023	.....	.....
27	1.4	.....	.....	−0.230
28	5.6	.....	.....	−0.180
28	5.7	+0.038	.....	.....
28	11.5—13.4	+0.012	+0.153	.....
28	11.2	.....	.....	−0.256
28	13.5	.....	.....	−0.223
28–29	21.4—5.6	+0.039	+0.200	.....
28	21.5	.....	.....	−0.262
28	2.1	.....	.....	−0.201
29	5.7	.....	.....	−0.153
29	11.5—13.4	+0.036	+0.190	−0.253
29–30	21.6—5.6	+0.056	+0.214	.....
29	21.9	.....	.....	−0.332
29	2.1	.....	.....	−0.306
30	5.9	.....	.....	−0.129
30–1	21.6—6.7	+0.025	+0.289	.....
30	21.4	.....	.....	−0.448
30	2.2	.....	.....	−0.517
May 1	6.8	.....	.....	−0.498
1–2	22.9—5.6	+0.056	+0.377	.....
1	23.5	.....	.....	−0.384
1	2.0	.....	.....	−0.427
2	6.0	.....	.....	−0.390
3–4	22.0—5.9	+0.041	+0.311	.....
3	22.1	.....	.....	−0.386
3	2.4	.....	.....	−0.395
4	5.7	.....	.....	−0.342

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
1903	h h	s	s	s
May 4	9. 1—13. 4	+0. 054	+0. 308	—0. 330
4- 5	22. 0— 6. 7	+0. 031	+0. 334	.....
4	21. 8	.....	.....	—0. 422
4	2. 0	.....	.....	—0. 356
5	6. 0	.....	.....	—0. 333
5	10. 0—13. 4	+0. 034	+0. 300	—0. 328
5- 6	22. 9— 5. 6	+0. 052	+0. 344	.....
5	23. 4	.....	.....	—0. 403
5	2. 3	.....	.....	—0. 351
6	5. 1	.....	.....	—0. 315
6	11. 0—13. 4	+0. 040	+0. 307	.....
6	10. 9	.....	.....	—0. 331
6	13. 2	.....	.....	—0. 282
6- 7	22. 6— 5. 9	+0. 049	+0. 331	.....
6	22. 5	.....	.....	—0. 337
6	2. 5	.....	.....	—0. 302
7	5. 8	.....	.....	—0. 291
7	11. 5—13. 4	+0. 050	+0. 342	—0. 328
7- 8	21. 6— 5. 9	+0. 052	+0. 353	.....
7	21. 8	.....	.....	—0. 392
7	2. 1	.....	.....	—0. 409
8	5. 5	.....	.....	—0. 363
8	11. 3—13. 7	+0. 032	+0. 298	—0. 392
8- 9	22. 8— 5. 9	+0. 058	+0. 351	.....
8	23. 4	.....	.....	—0. 386
8	2. 4	.....	.....	—0. 314
9	5. 5	.....	.....	—0. 310
9	11. 7—14. 3	+0. 034	+0. 315	—0. 372
10	14. 6—15. 4	+0. 030	+0. 326	.....
10	14. 4	.....	.....	—0. 375
10	15. 6	.....	.....	—0. 414
11	15. 1—18. 0	+0. 053	+0. 342	.....
11	15. 1	.....	.....	—0. 354
11	17. 6	.....	.....	—0. 413
12	15. 7—18. 0	+0. 046	+0. 330	—0. 376
12–13	22. 9— 6. 1	+0. 066	+0. 369	—0. 333
13	15. 7—18. 3	+0. 050	+0. 358	—0. 372
14	17. 9—19. 4	+0. 054	+0. 366	—0. 365
14–15	0. 0— 7. 6	+0. 055	+0. 358	.....
14	23. 5	.....	.....	—0. 379
14	2. 7	.....	.....	—0. 333
15	7. 8	.....	.....	—0. 284
15	17. 3—20. 0	+0. 042	+0. 346	—0. 388
16	18. 9—20. 6	+0. 042	+0. 389	—0. 412
1903	h h	s	s	s
May 17	20. 4—22. 1	+0. 032	+0. 389	—0. 454
18–19	21. 4— 7. 7	+0. 060	+0. 388	.....
18	21. 2	.....	.....	—0. 411
18	22. 5	.....	.....	—0. 390
18	3. 5	.....	.....	—0. 338
19	7. 4	.....	.....	—0. 332
19–20	22. 0— 5. 9	+0. 064	.....	.....
19	22. 4	.....	+0. 399	.....
19	22. 7	.....	.....	—0. 472
19	3. 1	.....	.....	—0. 503
19	3. 3	.....	+0. 351	.....
20	6. 1	.....	+0. 339	.....
20	6. 3	.....	.....	—0. 382
20–21	22. 6— 7. 7	.....	+0. 386	.....
20	22. 7	.....	.....	—0. 478
20	22. 8	+0. 045	.....	.....
20	3. 1	+0. 068	.....	.....
20	3. 6	.....	.....	—0. 393
21	7. 0	+0. 078	.....	.....
21	7. 4	.....	.....	—0. 373
28	11. 5—13. 5	+0. 068	+0. 353	—0. 410
June 1	9. 6—10. 3	+0. 058	+0. 368	—0. 442
2	10. 4—13. 5	+0. 044	+0. 354	.....
2	10. 2	.....	.....	—0. 394
2	13. 6	.....	.....	—0. 451
2- 3	1. 0— 7. 8	+0. 063	+0. 381	.....
2	1. 7	.....	.....	—0. 519
2	4. 1	.....	.....	—0. 472
3	7. 3	.....	.....	—0. 414
3	11. 3—13. 5	+0. 054	+0. 360	.....
3	11. 3	.....	.....	—0. 442
3	15. 2	.....	.....	—0. 485
3- 4	0. 0— 7. 9	+0. 056	+0. 365	.....
3	23. 9	.....	.....	—0. 494
3	4. 5	.....	.....	—0. 412
4	7. 9	.....	.....	—0. 355
4	11. 7—13. 5	+0. 062	+0. 342	—0. 381
8	15. 9—18. 2	+0. 066	+0. 376	—0. 433
9	16. 8—17. 6	+0. 038	+0. 350	—0. 456
10	17. 3—21. 4	+0. 048	+0. 376	—0. 465
11–12	1. 8— 9. 3	+0. 047	+0. 388	.....
11	1. 7	.....	.....	—0. 557
11	4. 6	.....	.....	—0. 545
12	8. 6	.....	.....	—0. 511

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.				
1903	h h	s	s	s
June 14	20.2—22.1	+0.045	+0.329	—0.536
14–15	1.8—10.3	+0.068	+0.368	—0.466
15	22.0—22.6	+0.058	+0.338	—0.494
15–16	2.9—10.1	.....	+0.335	.....
15	1.7	.....	.....	—0.511
15	1.9	+0.038	.....	.....
15	4.7	+0.023	.....	.....
15	4.8	.....	.....	—0.504
16	9.5	.....	.....	—0.439
16	9.8	+0.063	.....	.....
17	23.1— 0.2	+0.048	+0.397	—0.536
17–18	1.8— 9.7	+0.061	.....	.....
17	1.7	.....	.....	—0.510
17	2.3	.....	+0.380	.....
17	5.0	.....	+0.342	.....
17	5.4	.....	.....	—0.443
18	9.4	.....	+0.346	.....
18	9.6	.....	.....	—0.425
18–19	2.9—10.3	+0.039	+0.348	.....
18	1.8	.....	.....	—0.537
18	5.1	.....	.....	—0.509
19	10.5	.....	.....	—0.414
21–22	2.9— 7.7	+0.073	+0.409	.....
21	3.2	.....	.....	—0.470
21	5.7	.....	.....	—0.434
22	10.6	.....	.....	—0.408
23	18.7—19.1	+0.038	+0.341	—0.510
29	17.0—19.4	+0.055	+0.371	—0.472
29–30	4.5—10.1	+0.048	+0.351	.....
29	4.9	.....	.....	—0.508
29	6.0	.....	.....	—0.469
30	10.6	.....	.....	—0.398
30	17.0—19.4	+0.046	+0.340	—0.451
30– 1	3.7—13.4	+0.060	+0.381	.....
30	3.2	.....	.....	—0.474
30	5.8	.....	.....	—0.458
July 1	9.7	.....	.....	—0.410
1	12.1	.....	.....	—0.395
1	13.2	.....	.....	—0.380
1– 2	3.7—10.1	+0.062	.....	.....
1	3.5	.....	+0.382	.....
1	3.6	.....	.....	—0.444
1	6.0	.....	+0.414	.....
1	6.4	.....	.....	—0.434
SIX-INCH TRANSIT CIRCLE—Continued.				
1903	h h	s	s	s
July 2	9.8	.....	+0.427	.....
2	9.9	.....	.....	—0.392
2– 3	3.7—10.3	+0.059	+0.330	.....
2	3.5	.....	.....	—0.515
2	6.0	.....	.....	—0.524
3	10.4	.....	.....	—0.445
6	15.2—18.0	+0.064	+0.304	—0.474
6– 7	3.7—10.3	+0.048	.....	.....
6	3.6	.....	+0.312	—0.533
6	6.3	.....	+0.282	.....
6	6.5	.....	.....	—0.484
7	9.9	.....	.....	—0.478
7	10.5	.....	+0.312	.....
7	15.2—19.4	+0.052	+0.276	—0.492
7– 8	2.9—11.3	+0.073	+0.302	.....
7	3.6	.....	.....	—0.531
7	6.6	.....	.....	—0.473
8	10.7	.....	.....	—0.463
8	15.2—19.6	+0.053	+0.270	—0.476
8– 9	3.7—10.3	+0.057	+0.305	.....
8	3.9	.....	.....	—0.485
8	6.9	.....	.....	—0.475
9	10.5	.....	.....	—0.440
9	17.0—19.8	+0.070	+0.272	—0.506
9–10	3.8—11.2	+0.062	.....	.....
9	3.5	.....	.....	—0.583
9	3.6	.....	+0.270	.....
9	6.5	.....	+0.286	.....
9	6.6	.....	.....	—0.503
10	9.9	.....	+0.316	.....
10	10.5	.....	.....	—0.481
10	18.9—21.4	+0.062	+0.260	—0.560
10–11	3.8—10.5	+0.075	+0.302	.....
10	5.1	.....	.....	—0.560
10	6.4	.....	.....	—0.492
11	10.6	.....	.....	—0.453
11	18.9—21.6	+0.056	.....	—0.553
11	18.6	.....	+0.298	.....
11	21.9	.....	+0.257	.....
13	20.4—23.1	+0.064	+0.284	—0.584
13–14	3.7—11.2	+0.038	+0.291	.....
13	3.6	.....	.....	—0.613
13	6.8	.....	.....	—0.575
14	11.0	.....	.....	—0.538

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*	Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
1903	h h	s	s	s	1903	h h	s	s	s
July 14	23.1— 1.5	+0.052	.....	—0.614	July 24	17.1—19.4	+0.048	+0.258	—0.534
14	22.7	.....	+0.314	.....	24–25	4.5—11.8	+0.067	+0.295	.....
14	0.9	.....	+0.277	.....	24	4.4	.....	.....	—0.589
14–15	4.5—11.3	+0.056	.....	—0.572	24	7.4	.....	.....	—0.557
14	4.6	.....	+0.324	.....	25	11.5	.....	.....	—0.491
14	6.9	.....	+0.319	.....	25	17.0—19.7	+0.056	+0.266	—0.514
15	11.0	.....	+0.294	.....	27–28	4.5—12.5	+0.056	+0.292	.....
15	23.1— 1.5	+0.057	.....	—0.608	27	4.6	.....	.....	—0.628
15	23.0	.....	+0.334	.....	27	8.1	.....	.....	—0.588
15	1.2	.....	+0.225	.....	28	12.6	.....	.....	—0.560
15–16	4.5—11.3	+0.069	.....	.....	29–30	4.8—11.8	+0.058	+0.291	.....
15	4.6	.....	+0.300	.....	29	5.1	.....	.....	—0.553
15	4.7	.....	.....	—0.580	29	8.3	.....	.....	—0.519
15	7.0	.....	+0.274	.....	30	12.7	.....	.....	—0.483
15	7.4	.....	.....	—0.565	Aug. 4– 5	5.8—14.2	+0.067	.....	.....
16	11.5	.....	+0.300	.....	4	6.1	.....	+0.310	.....
16	11.6	.....	.....	—0.490	4	6.2	.....	.....	—0.584
16	23.2— 1.7	+0.058	+0.276	—0.592	4	8.3	.....	+0.274	.....
16–17	4.5—11.2	+0.056	+0.293	.....	4	8.4	.....	.....	—0.603
16	4.4	.....	.....	—0.631	5	12.7	.....	+0.288	.....
16	7.2	.....	.....	—0.581	5	12.9	.....	.....	—0.534
17	11.0	.....	.....	—0.502	5	18.4—19.9	+0.078	+0.267	.....
19–20	3.7—11.8	+0.057	+0.316	.....	5	18.4	.....	.....	—0.562
19	3.6	.....	.....	—0.526	5	19.8	.....	.....	—0.599
19	7.6	.....	.....	—0.491	6– 7	5.5—12.9	+0.050	.....	.....
20	11.6	.....	.....	—0.476	6	5.6	.....	.....	—0.642
20–21	4.5—11.8	+0.045	.....	.....	6	6.0	.....	+0.315	.....
20	4.3	.....	+0 325	.....	6	8.2	.....	.....	—0.584
20	4.6	.....	.....	—0.614	6	8.3	.....	+0.287	.....
20	7.2	.....	+0.267	.....	7	12.0	.....	+0.306	.....
20	7.7 ...	.....	.....	—0.548	7	12.1	.....	.....	—0.567
21	10.8	.....	.....	—0.496	7	18.7—21.4	+0.052	+0.304	—0.627
21	11.3	.....	+0.303	.....	9	20.2—23.7	+0.048	+0.264	—0.582
22–23	5.1—11.3	+0.074	.....	—0.535	9–10	5.8—14.2	+0.069	+0.303	—0.524
22	4.9	.....	+0.320	.....	11	23.1— 1.5	+0.057	+0.280	—0.637
22	7.4	.....	+0.288	.....	11–12	5.5—13.0	+0.059	+0.318	.....
23	10.9	.....	+0.309	.....	11	5.7	.....	.....	—0.654
23–24	4.5—11.8	+0.048	.....	.....	11	8.7	.....	.....	—0.658
23	4.4	.....	+0.298	.....	12	12.8	.....	.....	—0.611
23	4.6	.....	.....	—0.565	12	23.1— 0.0	+0.060	+0.316	—0.658
23	7.4	.....	+0.258	.....	16–17	4.5—14.8	+0.060	+0.325	.....
23	7.5	.....	.....	—0.543	16	5.1	.....	.....	—0.608
24	10.8	.....	+0.278	.....	16	8.4	.....	.....	—0.559
24	11.3	.....	.....	—0.486	17	14.3	.....	.....	—0.527

TABLE VI.—*The Adopted Values of the Collimation, Level, and Azimuth Constants*—Continued.

Date.	Sidereal Hour.	*c*	*b*	*a*
SIX-INCH TRANSIT CIRCLE—Continued.				
1903	h h	s	s	s
Aug. 20	18. 7—20. 8	+0. 048	+0. 258	—0. 629
20–21	6. 1—13. 4	+0. 066	+0. 334	.....
20	6. 4	.....	.....	—0. 672
20	9. 3	.....	.....	—0. 621
21	12. 8	.....	.....	—0. 609
21	18. 9—20. 8	+0. 051	+0. 313	—0. 640
21–22	5. 8—13. 4	+0. 056	.....	.....
21	5. 6	.....	.....	—0. 675
21	5. 7	.....	+0. 336	.....
21	9. 4	.....	+0. 290	.....
21	9. 6	.....	.....	—0. 587
22	13. 2	.....	.....	—0. 554
22	13. 6	.....	+0. 279	.....
22	18. 7—20. 8	+0. 052	+0. 278	—0. 562
23–24	7. 2—14. 7	+0. 074	+0. 326	—0. 635
24	18. 9—20. 8	+0. 060	+0. 320	—0. 640
24–25	4. 8—14. 2	+0. 055	+0. 326	.....
24	4. 7	.....	.....	—0. 663
24	9. 5	.....	.....	—0. 619
SIX-INCH TRANSIT CIRCLE—Continued.				
1903	h h	s	s	s
Aug. 25	13. 7	.....	.....	—0. 601
25	18. 7—21. 2	+0. 059	+0. 298	—0. 624
Sept. 1	18. 3—20. 8	+0. 074	+0. 318	—0. 608
2	18. 7—20. 8	+0. 068	+0. 329	—0. 612
2– 3	6. 6—14. 2	+0. 065	+0. 333	.....
2	7. 3	.....	.....	—0. 659
2	10. 5	.....	.....	—0. 581
3	14. 1	.....	.....	—0. 564
3	20. 1—20. 8	+0. 070	+0. 304	.....
3	19. 8	.....	.....	—0. 603
3	20. 7	.....	.....	—0. 638
3– 4	6. 6—14. 8	+0. 072	.....	.....
3	7. 3	.....	.....	—0. 677
3	7. 9	.....	+0. 352	.....
3	10. 1	.....	.....	—0. 656
3	10. 2	.....	+0. 320	.....
4	14. 0	.....	+0. 330	.....
4	14. 3	.....	.....	—0. 561
4	18. 7—21. 9	+0. 070	+0. 305	—0. 629

TABLE VI a.—*The Observed Values of the Azimuth Constant of the Six-Inch Transit Circle.*

Date	Sidereal Hour.	*a*	Thermometer.		Date.	Sidereal Hour.	*a*	Thermometer.	
			West.	East.				West.	East.
1900	h	s	°	°	1900	h	s	°	°
Jan. 1	16.3	+2.122	15.9	13.7	Jan. 7	16.9	+1.841	43.2	41.8
1	18.7	+2.051	23.2	19.1	7	19.0	+1.818	44.8	43.3
2	21.9	+1.912	27.9	25.0	8	21.5	+1.803	44.0	43.8
2	1.6	+1.947	24.0	24.4	8	1.2	+1.794	....	....
2	6.5	+1.914	25.0	24.1	8	2.3	+1.843	37.0	39.4
2	14.0	+1.916	23.6	23.0	8	5.0	+1.901	34.0	36.2
2	16.5	+1.888	25.2	23.8	8	6.0	+1.884	33.0	35.0
3	21.1	+1.838	30.9	28.4	8	13.0	+1.976	27.2	29.8
3	1.9	+1.871	26.5	27.5	8	16.3	+2.071	27.0	27.8
3	13.5	+1.990	18.6	20.0	9	2.0	+2.028	32.5	33.1
3	16.5	+2.003	19.2	18.8	Azimuth adjusted.				
3	18.8	+1.969	26.0	22.3	12	4.5	+1.811	33.8	35.0
4	22.2	+1.902	32.0	29.8	12	5.9	+1.876	32.2	33.2
4	5.3	+1.897	26.0	26.6	13	6.0	+1.240	29.3	30.3
4	6.3	+1.901	26.2	26.3	13	6.8	+1.225	28.9	30.0
4	16.3	+2.031	27.0	24.2	14	18.4	+1.016	43.2	41.0
4	18.8	+1.946	34.4	29.8	15	20.5	+0.919	48.0	45.4
5	20.8	+1.913	41.0	35.0	15	22.2	+0.904	49.4	47.3
5	22.5	+1.932	43.0	39.2	15	1.0	+0.833	46.5	47.6
5	16.2	+1.976	39.5	37.8	15	6.0	+0.943	40.0	42.0
6	18.9	+1.881	45.7	43.2	15	8.3	+0.975	38.2	39.8
6	20.8	+1.851	47.6	46.0	15	13.8	+1.046	35.0	36.7
6	21.5	+1.836	48.5	46.5	16	21.0	+0.935	52.0	44.1
6	24.0	+1.828	46.0	46.5	16	22.2	+0.870	57.0	49.4
7	1.7	+1.774	44.0	43.9					

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock.*

The standard sidereal clock for various dates has been as follows:

Sidereal Clock, HOWARD No. 404, January 1.9, 1900 to April 28.9, 1901.
Sidereal Clock, PARKINSON and FRODSHAM No. 611, April 28.9 to August 20.4, 1901.
Sidereal Clock, CHARLES FRODSHAM, August 20.9 to 22.3, 1901.
Sidereal Clock, PARKINSON and FRODSHAM No. 611, August 22.5 to October 19.2, 1901.
Sidereal Clock, HOWARD No. 404, October 19.3 to 20.9, 1901.
Sidereal Clock, PARKINSON and FRODSHAM No. 611, October 20.9 to 25.5, 1901.
Sidereal Clock, HOWARD No. 404, October 25.9, 1901 to January 18.7, 1903.
Sidereal Chronometer, NEGUS No. 1295, January 18.9 to 20.8, 1903.
Sidereal Clock, HOWARD No. 404, January 20.9 to 30.1, 1903.
Sidereal Chronometer, NEGUS No. 1295, January 30.1 to March 4.1, 1903.
Sidereal Chronometer, NEGUS No. 1902, March 4.1 to 11.4, 1903.
Sidereal Clock, HOWARD No. 404, March 11.4 to May 7.1, 1903.
Sidereal Clock, PARKINSON and FRODSHAM No. 611, May 7.2 to 25.1, 1903.
Sidereal Clock, HOWARD No. 404, May 25.1 to July 21.2, 1903.
Sidereal Clock, PARKINSON and FRODSHAM No. 611, July 21.3 to September 1.2, 1903.
Sidereal Clock, RIEFLER No. 70, September 1.3 to 4.4, 1903.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
SIX-INCH TRANSIT CIRCLE.				
1900		h	s	s
Jan. 1	Br.	17.428	−39.250	−0.0144
2		20.752	−39.298	−0.0272
2		1.243	−39.420	−0.0334
2		5.670	−39.568	−0.0396
2		13.477	−39.877	
3	La.	16.570	−40.552	−0.0124
4		21.230	−40.610	−0.0014
4		5.718	−40.622	
4	B.	16.230	−40.868	−0.0262
5		22.038	−41.020	
5	U.	16.833	−41.323	+0.0132
6		21.012	−41.268	+0.0077
6		23.610	−41.248	
7	Br.	0.764	−41.232	......
7	La.	16.938	−41.230	−0.0013
8		20.902	−41.235	+0.0300
8		1.808	−41.088	+0.0243
8		5.638	−40.995	+0.0052
8		13.295	−40.955	
9	Br.	2.280	−41.204	......
12	B.	5.430	−41.278	......
13	U.	6.050	−41.575	......
14	La.	19.270	−42.070	−0.0047
15		21.390	−42.080	+0.0084
15		0.975	−42.050	+0.0283
15		5.640	−41.918	−0.0208
15		8.138	−41.970	
NINE-INCH TRANSIT CIRCLE.				
22	Br.	18.623	−41.293	+0.0160
23		22.255	−41.235	+0.0048
23		1.380	−41.220	+0.0013
23		12.980	−41.205	+0.0228
23		14.383	−41.173	
NINE-INCH TRANSIT CIRCLE—Continued.				
1900		h	s	s
Jan. 23	B.	18.450	−41.142	+0.0360
24		22.538	−40.995	+0.0089
24		1.350	−40.970	
25	La.	16.925	−41.252	−0.0178
25		19.620	−41.300	+0.0586
26		22.233	−41.147	−0.0941
26		0.975	−41.405	
26	Br.	18.246	−41.510	−0.0297
27		23.743	−41.673	
30	B.	18.428	−43.855	−0.0196
31		22.772	−43.940	−0.0111
31		1.025	−43.965	
31	La.	18.620	−44.652	+0.0354
Feb. 1		22.433	−44.517	
1	Br.	19.308	−45.424	−0.0142
2		3.170	−45.550	
2	B.	18.578	−46.008	+0.0098
3		22.780	−45.967	−0.0672
3		0.313	−46.070	
4	La.	19.246	−47.158	+0.0127
5		22.233	−47.120	−0.0098
5		2.100	−47.158	
6	Br.	1.260	−47.657	+0.0422
6		3.320	−47.570	
8	La.	0.975	−47.655	−0.0137
8		5.142	−47.712	
9	Br.	6.226	−47.494	......
13	Br.	9.440	−47.370	......
13	B.	21.038	−47.360	−0.0097
14		0.640	−47.395	
14	La.	20.940	−47.495	+0.0067
15		0.670	−47.470	

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
NINE-INCH TRANSIT CIRCLE—Continued.				
1900		h	s	s
Feb. 18	Ei.	20. 530	−48. 650	−0. 0362
19		0. 670	−48. 800	
19		13. 355	−49. 095	+0. 0231
19		14. 740	−49. 063	
20	Br.	15. 368	−49. 815	......
22	B.	16. 815	−50. 965	......
25	Ei.	19. 647	−51. 923	−0. 0322
26		0. 433	−52. 077	
26	Br.	19. 650	−52. 437	−0. 0371
27		1. 313	−52. 647	
Mar. 3	Br.	0. 110	−54. 330	−0. 0279
3		1. 650	−54. 373	+0. 0121
3		12. 800	−54. 238	
7	B.	1. 242	− 0. 022	+0. 0422
7		4. 728	+ 0. 125	
10	Br.	7. 998	+ 0. 128	+0. 0004
10		13. 338	+ 0. 130	
11	Ei.	21. 232	+ 0. 130	−0. 0077
12		0. 472	+ 0. 105	+0. 0034
12		1. 940	+ 0. 110	−0. 0203
12		6. 530	+ 0. 017	+0. 0434
12		9. 178	+ 0. 132	
16	Ei.	12. 504	− 1. 698	......
17	Br.	12. 924	− 2. 270	......
19	Ei.	14. 522	− 3. 532	......
20	Br.	15. 520	− 4. 012	......
20	Ei.	21. 457	− 3. 933	−0. 0233
21		1. 317	− 4. 023	
21		16. 722	− 3. 992	
21	Br.	21. 628	− 4. 232	−0. 0249
22		1. 968	− 4. 340	
22		17. 230	− 4. 440	−0. 0551
22		18. 737	− 4. 523	
23	Br.	21. 405	− 4. 825	−0. 0138
24		1. 968	− 4. 888	
26	Br.	21. 937	− 6. 063	−0. 0578
27		1. 640	− 6. 277	
27	Ei.	21. 955	− 6. 390	−0. 0321
28		2. 312	− 6. 530	
Apr. 1	Ei.	22. 430	− 9. 108	−0. 0367
2		1. 895	− 9. 235	−0. 0131
[illegible]		3. 800	− 9. 260	
2	La.	22. 330	− 9. 465	−0. 0601
3		1. 690	− 9. 667	+0. 0362
3		4. 375	− 9. 570	
NINE-INCH TRANSIT CIRCLE—Continued.				
1900		h	s	s
Apr. 4	Br.	22. 974	−10. 322	−0. 0200
5		3. 620	−10. 415	+0. 0024
5		6. 506	−10. 408	
5	Ei.	23. 030	−10. 720	−0. 0156
6		1. 925	−10. 765	−0. 0162
6		3. 657	−10. 793	
7	Br.	8. 180	−11. 142	......
8	Br.	9. 106	−11. 322	......
9	Ei.	9. 682	−11. 340	......
9	La.	23. 685	−11. 898	−0. 0048
10		4. 255	−11. 920	−0. 0056
10		10. 518	−11. 955	
13	La.	0. 565	−13. 475	+0. 0357
14		3. 312	−13. 377	+0. 0068
14		13. 508	−13. 308	
15	Br.	14. 428	−13. 560	......
19	Br.	16. 692	−12. 972	+0. 0054
19		18. 552	−12. 962	
23	Ei.	22. 332	−10. 898	......
23	La.	0. 423	−10. 920	+0. 0408
24		5. 130	−10. 728	
24	Ei.	23. 336	−10. 556	+0. 0010
25		5. 098	−10. 550	
25	Br.	0. 068	−10. 705	−0. 0002
26		5. 208	−10. 706	
26	Ei.	0. 928	−10. 804	−0. 0204
27		5. 145	−10. 890	
27	La.	0. 423	−11. 093	+0. 0089
28		5. 260	−11. 050	
May 3	La.	0. 480	−13. 278	−0. 0142
4		5. 212	−13. 345	
4	Hd.	0. 423	−13. 880	−0. 0081
5		8. 120	−13. 942	
6	La.	9. 420	−14. 642	......
7	Ei.	10. 564	−15. 194	......
8	Hd.	5. 000	−15. 712	−0. 0086 *
8		10. 662	−15. 718	−0. 0011
9	Ei.	12. 334	−16. 224	......
9	Hd.	0. 480	−16. 472	−0. 0142
10		6. 122	−16. 552	+0. 0043
10		12. 460	−16. 525	

*Clock rate obtained from least square solution, and used in reducing observations of the Sun and interior planets.

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

NINE-INCH TRANSIT CIRCLE—Continued.

Date.	Ob-server.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1900		h	s	s
May 13	Br.	1. 392	−18. 430	+0. 0029
14		6. 535	−18. 415	+0. 0206
14		16. 308	−18. 214	
14	Hd.	1. 392	−18. 375	+0. 0172
15		7. 042	−18. 278	
15	B.	11. 418	−17. 998	−0. 0058
15		14. 166	−18. 014	
15	Hd.	16. 023	−18. 067	−0. 0145
15		17. 617	−18. 090	
15	Br.	1. 250	−18. 127	+0. 0349
16		6. 042	−17. 960	+0. 0048
16		15. 960	−17. 912	
17	Hd.	15. 947	−17. 583	−0. 0071
17		17. 490	−17. 594	
19	B.	11. 596	−17. 346	−0. 0009
19		13. 778	−17. 348	
20	B.	11. 552	−17. 453	......
20	Br.	2. 425	−17. 890	+0. 0243
21		6. 622	−17. 788	
21	B.	11. 385	−17. 670	+0. 0083
21		13. 074	−17. 656	−0. 0636
21		14. 635	−17. 755	
21	Br.	22. 648	−18. 075	......
21	Hd.	1. 392	−18. 245	+0. 0299
22		7. 570	−18. 060	
22	B.	11. 980	−17. 917	−0. 0611
22		14. 245	−18. 055	
22	Hd.	23. 092	−18. 488	......
23	B.	13. 395	−18. 273	−0. 0392
23		14. 772	−18. 327	
25	B.	12. 730	−18. 885	+0. 0308
25		14. 190	−18. 840	
25	Hd.	1. 970	−19. 365	+0. 0204
26		6. 128	−19. 280	
31	Ei.	2. 460	−21. 172	+0. 0099
June 1		5. 697	−21. 140	+0. 0096
1		7. 793	−21. 120	
3	Hd.	9. 680	−21. 395	......
4	Ei.	10. 565	−21. 345	......
4	B.	3. 735	−21. 265	−0. 0198
5		7. 520	−21. 340	−0. 0195
5		10. 694	−21. 402	
5	Ei.	2. 460	−21. 562	+0. 0129
6		5. 697	−21. 520	−0. 0374
6		7. 570	−21. 590	−0. 0025
6		12. 292	−21. 602	

NINE-INCH TRANSIT CIRCLE—Continued.

Date.	Ob-server.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1900		h	s	s
June 6	Hd.	2. 968	−21. 782	+0. 0033
7		6. 648	−21. 770	−0. 0102
7		12. 842	−21. 833	
7	Ei.	2. 462	−21. 702	+0. 0243
8		5. 840	−21. 620	+0. 0029
8		16. 300	−21. 590	
8	B.	3. 760	−21. 582	+0. 0238
9		7. 120	−21. 502	−0. 0004
9		14. 538	−21. 505	+0. 0727
9		16. 188	−21. 385	
10	Hd.	15. 348	−21. 492	......
10	Ei.	2. 462	−21. 322	−0. 0008
11		7. 258	−21. 326	+0. 0089
11		16. 103	−21. 247	−0. 0062
11		18. 198	−21. 260	
14	Hd.	19. 723	−20. 913	......
19	B.	23. 963	−21. 730	......
19	Ei.	3. 412	−21. 798	−0. 0126
20		5. 957	−21. 830	+0. 0013
20		9. 720	−21. 825	−0. 0125
20		0. 670	−22. 012	
20	Hd.	3. 723	−22. 190	+0. 0043
21		6. 027	−22. 180	−0. 0096
21		1. 450	−22. 367	
22	Ei.	12. 910	−22. 210	......
25	B.	4. 714	−21. 960	
26		8. 133	−22. 003	−0. 0126
26		1. 025	−21. 855	
26	Br.	5. 100	−21. 927	+0. 0075
27		8. 445	−21. 902	
28	Br.	5. 142	−21. 348	+0. 0399
29		8. 468	−21. 215	
30	B.	7. 488	−20. 760	+0. 0049
30		9. 528	−20. 750	
July 1	B.	10. 395	−20. 378	......
1	Ei.	4. 895	−20. 342	+0. 0057
2		8. 728	−20. 320	−0. 0192
2		10. 910	−20. 362	+0. 0124
2		13. 500	−20. 330	
4	B.	5. 345	−19. 555	+0. 0129
5		8. 675	−19. 512	
5	Ei.	1. 300	−19. 420	+0. 0483
5		4. 984	−19. 242	+0. 0469
6		8. 328	−19. 085	+0. 0170
6		14. 212	−18. 985	+0. 0532
6		16. 338	−18. 872	
6	Br.	6. 138	−18. 785	+0. 0163
7		9. 812	−18. 725	+0. 0185
7		14. 955	−18. 630	

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

NINE-INCH TRANSIT CIRCLE—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1900		h	s	s
July 8	B.	15.780	−17.960	+0.0121
8		16.360	−17.953	
9	Ei.	16.480	−17.520	+0.0092
9		18.000	−17.506	
9	Br.	5.370	−17 550	+0.0225
10		9.287	−17.462	+0.0280
10		15.317	−17.293	+0.0238
10		18.260	−17.223	
10	Ei.	4.902	−17.012	+0.0022
11		9.475	−17.002	+0.0162
11		18.604	−16.854	
11	B.	4.895	−16.708	+0.0220
12		10.257	−16.590	
12	Ei.	4.902	−16.484	−0.0022
13		10.230	−16.496	+0.0420
13		16.230	−16.244	−0.0313
13		21.084	−16.396	+0.0014
13		1.295	−16.390	
13	Br.	5.462	−16.340	+0.0159
14		10.487	−16.260	
14	Ei.	16.102	−16.106	−0.0236
14		17.755	−16.145	
14	Br.	21.985	−16.148	......
15	B.	22.982	−15.775	......
15	Ei.	5.175	−15.730	+0.0024
16		9.475	−15.720	+0.0215
16		16.212	−15.575	+0.0092
16		23.830	−15.505	
16	Br.	5.462	−15.460	+0.0178
17		9.840	−15.382	+0.0241
17		0.575	−15.027	
17	Ei.	5.224	−14.824	+0.0439
18		10.560	−14.590	
18	B.	5.558	−14.190	+0.0387
19		10.210	−14.010	
19	Br.	5.560	−13.770	+0.0099
20		9.590	−13.730	+0.0223
20		3.775	−13.325	
20	B.	5.370	−13.060	+0.0277
21		10.418	−12.920	
23	Br.	6.510	−11.812	+0.0174
24		10.186	−11.748	
24	Ei.	18.255	−11.582	......
27	Ei.	16.070	−10.784	......
27	Br.	5.462	−10.788	−0.0226
28		9.976	−10.890	
1900		h	s	s
July 30	Br.	6.328	−10.445	+0.0040
31		11.522	−10.424	+0.0105
31		18.360	−10.352	
31	B.	7.038	−10.112	+0.0408
Aug. 1		9.835	− 9.998	−0.0282
1		13.165	−10.092	
1	Br.	6.388	−10.004	−0.0026
2		10.560	−10.015	+0.0247
2		13.925	− 9.932	
2	Ei.	6.758	− 9.786	+0.0135
3		11.040	− 9.728	+0.0112
3		14.438	− 9.690	
3	B.	6.790	− 9.668	+0.0165
4		10.795	− 9.602	+0.0090
4		15.462	− 9.560	−0.0338
4		17.682	− 9.635	
5	Br.	16.630	− 9.472	......
5	Ei.	7.112	− 9.450	+0.0124
6		10.992	− 9.402	−0.0009
6		17.812	− 9.408	
6	La.	6.758	− 9.280	+0.0477
7		11.160	− 9.070	−0.0234
7		18.630	− 9.245	
7	Ei.	7.202	− 8.924	+0.0285
8		11.268	− 8.808	+0.0070
8		17.812	− 8.762	+0.0667
8		19.565	− 8.645	
8	Br.	7.016	− 8.602	+0.0164
9		12.638	− 8.510	+0.0268
9		18.333	− 8.357	+0.0416
9		20.350	− 8.273	
9	Ei.	7.320	− 8.072	+0.0290
10		10.665	− 7.975	+0.0181
10		21.562	− 7.778	
10	La.	7.075	− 7.675	+0.0798
11		10.807	− 7.377	+0.0039
11		18.242	− 7.348	+0.0592
11		22.685	− 7.085	
13	La.	7.172	− 5.982	+0.0460
14		12.038	− 5.758	+0.0196
14		1.306	− 5.498	
16	Br.	3.738	− 4.578	......
24	Hd.	7.422	−16.948	+0.0169
25		14.003	−16.837	
26	Ei.	8.095	−16.595	+0.0036
27		12.850	−16.578	
27	Hd.	7.962	−16.378	−0.0003
28		15.024	−16.380	
28	Ei.	7.490	−15.910	......

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
NINE-INCH TRANSIT CIRCLE—Continued.				
1900		h	s	s
Aug. 29	Br.	7.460	−15.860	+0.0210
30		14.470	−15.713	
30	Ei.	8.177	−15.382	+0.0143
31		13.558	−15.305	−0.0204
31		15.522	−15.345	
31	B.	8.670	−15.018	+0.0246
Sept. 1		13.337	−14.903	+0.0083
1		16.120	−14.880	−0.0250
1		18.925	−14.950	
2	Hd.	17.008	−14.758	......
3	Ei.	17.812	−14.435	......
3	Hd.	8.160	−14.437	+0.0209
4		13.268	−14.330	+0.0063
4		18.798	−14.295	
4	B.	8.203	−13.850	+0.0135
5		13.250	−13.782	+0.0176
5		20.058	−13.662	
5	Ei.	7.620	−13.632	+0.0298
5		9.703	−13.570	−0.0151
6		13.546	−13.628	
6		21.062	−13.435	
7	Hd.	21.802	−13.400	......
17	B.	8.458	−11.423	......
18	Hh.	9.730	−11.720	−0.0128
19		14.012	−11.775	
19	Hd.	9.667	−12.077	−0.0496
20		13.558	−12.270	
23	Hh.	9.526	−13.532	−0.0190
24		13.892	−13.615	
24	B.	9.630	−13.918	−0.0199
25		13.250	−13.990	
25	Hh.	9.840	−14.325	−0.0155
26		14.162	−14.392	
26	Hd.	10.005	−14.600	−0.0077
27		15.212	−14.640	
Oct. 5	Ei.	22.508	−17.478	......
5	Br.	10.658	−17.632	−0.0222
6		14.168	−17.710	
6	Ei.	23.494	−17.622	......
7	K.	0.618	−18.098	......
9	K.	2.650	−18.553	......
9	Hh.	10.983	−18.870	−0.0585
10		14.830	−19.095	
NINE-INCH TRANSIT CIRCLE—Continued.				
1900		h	s	s
Oct. 10	B.	10.902	−19.448	−0.0497
11		13.958	−19.600	
11		4.557	−19.950	−0.0356
11		5.960	−20.000	
14	B.	7.518	−22.855	......
14	Hh.	11.076	−22.870	−0.0664
15		15.065	−23.135	
15		6.240	−23.486	−0.0083
15		8.168	−23.502	
15	Br.	11.575	−23.805	−0.0357
16		14.655	−23.915	
16		9.225	−24.422	
16	Hh.	10.886	−24.382	−0.0329
17		15.206	−24.524	
17	B.	10.640	−25.125	−0.0147
18		14.708	−25.185	
18	Hh.	10.800	−25.322	−0.0203
19		14.635	−25.400	
19	Br.	12.092	−25.505	−0.0114
20		14.812	−25.536	
21	Hh.	12.300	−25.725	+0.0065
22		15.818	−25.702	
23	B.	11.635	−25.185	−0.0103
24		15.040	−25.220	
24	B.	11.775	−24.842	−0.0066
25		15.742	−24.868	
26	Br.	12.860	−24.580	+0.0522
27		15.448	−24.445	+0.0310
27		17.354	−24.386	
29	Hh.	18.810	−23.952	......
29	Br.	12.838	−23.838	+0.0212
30		16.285	−23.765	+0.0161
30		20.202	−23.702 *	
Nov. 2	Ei.	22.000	−22.787	+0.027 †
4	B.	0.972	−22.320	......
4	S.	12.488	−22.465	+0.0020
5		15.990	−22.458	
5	Br.	12.622	−22.472	+0.0076
6		16.812	−22.440	
6	S.	11.992	−22.212	−0.0203
7		16.130	−22.296	
8	S.	12.003	−22.400	−0.0079
9		16.820	−22.438	
9	Hd.	6.000	−22.516	......

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* The value $-23^s.72$ was used in the reduction on page A 67, due to the assumption of a wrong azimuth; see note, page A XXIII.

† Clock rate obtained from least square solution.

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
NINE-INCH TRANSIT CIRCLE—Continued.				
1900		h	s	s
Nov. 9	Br.	13.448	—22.653	—0.0116
10		17.336	—22.698	
11	S.	13.118	—22.920	—0.0460
12		16.595	—23.080	
12	Hd.	8.793	—23.333	—0.0240
12		10.000	—23.362	
21	Br.	13.498	—26.952	+0.0158
22		23.892	—26.788	
27	S.	20.295	—26.440	—0.0581
27		21.500	—26.510	
29	Br.	22.685	—27.040	......
29	Hh.	14.106	—27.202	—0.0281
30		19.080	—27.342	—0.0314
30		23.315	—27.475	
30	S.	14.780	—27.608	—0.0268
Dec. 1		18.888	—27.718	
2	Br.	1.408	—28.372	......
4	Br.	3.412	—29.210	......
4	Hh.	14.370	—29.385	—0.0089
5		19.210	—29.428	
5		4.207	—29.667	—0.0658
5		5.165	—29.730	
6	Hh.	14.425	—30.335	......
8	Br.	5.858	—31.622	—0.0200
8		8.010	—31.665	
9	Br.	8.602	—32.238	......
9	Hh.	14.298	—32.212	—0.0172
10		18.825	—32.290	—0.0289
10		9.530	—32.715	
11	Br.	9.868	—33.485	+0.0162
11		11.100	—33.465	
12	Br.	15.208	—34.354	—0.0238
13		19.156	—34.448	—0.0353
13		10.290	—34.982	—0.0057
13		12.207	—34.993	
13	Hh.	14.453	—34.887	—0.0260
14		18.950	—35.004	—0.0432
14		11.810	—35.732	
14	B.	15.878	—35.692	0.0000
15		18.700	—35.692	—0.0372
15		10.740	—36.288	—0.0451
15		13.222	—36.400	
16	Hh.	14.304	—37.548	—0.0476
17		19.075	—37.775	

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
NINE-INCH TRANSIT CIRCLE—Continued.				
1900		h	s	s
Dec. 17	B.	15.452	—38.585	—0.0323
18		18.700	—38.690	
26	Hh.	22.342	—42.872	......
27	S.	23.002	—43.009	......
28	K.	0.398	—43.430	......
28	B.	15.984	—43.642	—0.0033
29		19.920	—43.655	—0.0282
29		1.068	—43.800	
1901				
Jan. 1	B.	4.110	—44.788	......
[illegible]	Hh.	4.880	—45.140	......
2	Br.	16.538	—45.328	—0.0004
3		21.392	—45.330	—0.0200
3		5.142	—45.485	—0.0210
3		6.330	—45.510	
3	Hh.	15.785	—45.452	—0.0078
4		20.030	—45.485	—0.0206
4		6.235	—45.695	
5	B.	6.102	—46.142	—0.0240
5		8.098	—46.190	
6	Br.	9.015	—46.752	......
7	Hh.	9.770	—47.155	—0.0521
7		10.730	—47.205	
7	B.	16.888	—47.125	—0.0307
8		19.985	—47.220	
8		10.493	—47.350	+0.0285
8		11.195	—47.330	
9	Hh.	11.000	—47.760	+0.0500
9		11.900	—47.715	
11	B.	17.550	—47.825	+0.0085
12		21.065	—47.795	—0.0127
12		10.853	—47.970	—0.0312
12		13.675	—48.058	
13	Br.	14.383	—48.403	......
14	B.	17.172	—48.658*	......
15		21.615	—48.658*	
15	Hh.	17.575	—49.002	+0.0114
16		21.250	—48.960	
18	B.	17.378	—49.492	—0.0075
19		21.398	—49.522	
28	Hh.	3.955	—54.725	......
29	B.	4.802	—55.598	+0.0454
29		6.475	—55.522	

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*The values 48ˢ.672 and 48ˢ.675 were used in the reductions on page A 81, due to the assumption of a wrong azimuth: see note, page A xxv.

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
NINE-INCH TRANSIT CIRCLE—Continued.				
1901		h	s	s
Jan. 30	Br.	19. 345	+ 3. 222	—0. 0217
31		5. 430	+ 3. 003	—0. 0114
31		7. 270	+ 2. 982	
31	Hh.	18. 860	+ 2. 622	—0. 0094
Feb. 1		23. 855	+ 2. 575	
1	B.	5. 800	+ 2. 440	—0. 0599
1		7. 635	+ 2. 330	
1	Br.	19. 182	+ 1. 942	—0. 0006
2		22. 350	+ 1. 940	
3	Hh.	19. 288	+ 0. 798	—0. 0305
4		0. 140	+ 0. 650	—0. 0271
4		9. 633	+ 0. 393	—0. 0490
4		10. 920	+ 0. 330	
4	Br.	18. 925	+ 0. 222	—0. 0300
5		0. 065	+ 0. 068	—0. 0399
5		10. 840	— 0. 362	—0. 0067
5		13. 507	— 0. 380	
5	Hh.	19. 065	— 0. 495	+0. 0111
6		23. 730	— 0. 443	—0. 0411
6		11. 328	— 0. 920	
6	Hd.	19. 338	— 1. 272	—0. 0395
7		23. 212	— 1. 425	
9	Br.	13. 857	— 3. 443	—0. 1429
9		14. 977	— 3. 603	
10	Hd.	15. 148	— 4. 335	......
11	Br.	19. 208	— 4. 785	—0. 0066
12		0. 532	— 4. 820	—0. 0296
12		6. 542	— 4. 998	—0. 0439
12		16. 802	— 5. 448	
13	Hd.	19. 482	— 6. 470	—0. 0480
14		0. 480	— 6. 710	
15	Br.	19. 960	— 8. 410	—0. 0379
16		23. 733	— 8. 553	
18	Br.	19. 738	—10. 258	+0. 0004
19		0. 562	—10. 256	
19	Hh.	19. 358	—10. 568	—0. 0304
20		23. 962	—10. 708	
24	Hd.	3. 278	—13. 700	......
24	Br.	20. 022	—14. 342	—0. 0357
25		2. 190	—14. 562	
25	Hh.	4. 685	—14. 615	—0. 0211
25		6. 340	—14. 650	
26	Hh.	20. 008	—15. 720	—0. 0184
27		0. 900	—15. 810	+0. 0126
27		3. 445	—15. 778	
27	Hd.	6. 368	—16. 088	
27		21. 405	—16. 580	+0. 0059
28		0. 480	—16. 562	
1901		h	s	s
Feb. 28	Br.	3. 445	—16. 448	......
28	Hh.	7. 795	—16. 525	......
Mar. 1	K.	8. 253	—17. 337	......
5	Hd.	10. 005	—19. 005	—0. 0161
5		11. 555	—19. 030	
6	Br.	3. 445	—19. 192	—0. 0420
6		10. 108	—19. 472	—0. 0429
6		12. 227	—19. 563	
6	Hd.	21. 100	—19. 670	—0. 0312
7		3. 760	—19. 878	
7		13. 324	—20. 284	
11	Hh.	17. 025	—21. 650	......
11	La.	21. 173	—21. 580	+0. 0021
12		1. 888	—21. 570	
17	Hh.	21. 242	—22. 358	+0. 0038
18		2. 023	—22. 340	+0. 0380
18		3. 498	—22. 284	
20	La.	21. 856	—23. 110	......
21	K.	21. 390	—23. 178	—0. 0184
22		2. 757	—23. 277	
22	B.	21. 405	—23. 325	+0. 0157
23		1. 727	—23. 257	
24	B.	3. 408	—23. 340	—0. 1544
24		4. 140	—23. 453	
28	La.	8. 028	—23. 682	......
28	K.	23. 227	—23. 820	+0. 0182
29		3. 790	—23. 737	
31	La.	23. 027	—25. 483	+0. 0063
Apr. 1		1. 080	—25. 470	
1		9. 737	—25. 640	—0. 0233
1		11. 370	—25. 678	
4	La.	12. 893	—28. 293	—0. 0227
4		14. 080	—28. 320	
4	K.	21. 470	—28. 667	—0. 0185
5		3. 835	—28. 785	
9	B.	17. 110	—32. 013	+0. 0078
9		18. 387	—32. 003	
9	Br.	23. 166	—32. 174	—0. 0296
10		3. 146	—32. 292	—0. 0248
10		17. 156	—32. 640	+0. 0009
10		19. 324	—32. 638	
10	La.	23. 308	—32. 684	—0. 0199
11		3. 128	—32. 760	
11		19. 734	—33. 262	
11	B.	0. 075	—33. 238	—0. 0264
12		3. 745	—33. 335	

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

NINE-INCH TRANSIT CIRCLE—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1901		h	s	s
Apr. 15	B.	0.075	−35.688	−0.0310
16		1.980	−35.747	
16	Br.	23.692	−36.655	−0.0196
17		3.822	−36.736	
25	B.	1.047	−39.417	+0.0130
26		3.905	−39.380	−0.0027
26		9.485	−39.395	
26		10.155	−39.395	
27	Br.	9.955	−39.695	−0.0018
27		12.665	−39.700	
28	B.	11.010	−39.688	+0.0064
28		13.030	−39.675	
28	La.	0.570	−33.535	+0.0092
29		4.585	−33.498	+0.0215
29		10.178	−33.378	+0.0049
29		11.807	−33.370	
29	B.	0.430	−33.057	+0.0223
30		4.105	−32.975	−0.0119
30		9.995	−33.045	−0.0175
30		12.682	−33.092	
May 2	B.	0.780	−33.758	−0.0101
3		3.940	−33.790	−0.0305
3		15.158	−34.132	+0.0060
3		16.828	−34.122	
3	Br.	1.257	−34.213	−0.0094
4		4.986	−34.248	−0.0200
4		16.210	−34.472	−0.0330
4		17.183	−34.440	
5	B.	16.828	−34.580	+0.0086
5		18.928	−34.562	
6	La.	16.970	−35.017	−0.0395
6		17.930	−35.055	
11	Br.	22.362	−36.295	......
12	La.	1.158	−36.715	+0.0131
13		4.968	−36.665	
13	B.	0.382	−36.810	−0.0221
14		5.598	−36.925	
23	La.	7.525	−41.050	−0.0045
23		9.312	−41.058	
28	B.	13.298	−44.060	......
29	Br.	13.878	−44.910	......
30	La.	14.960	−45.517	+0.0766
30		15.820	−45.583	
31	B.	15.518	−46.218	−0.1002
31		17.155	−46.382	
June 3	La.	17.065	−48.432	+0.0116
3		18.700	−48.413	
1901		h	s	s
June 3	B.	1.980	−48.480	+0.0126
4		6.910	−48.418	
4		17.065	−48.628	−0.0059
4		18.770	−48.638	
5	Br.	19.580	−49.298	+0.0102
5		20.363	−49.290	
5	La.	2.700	−49.290	−0.0266
6		6.078	−49.380	
7	Br.	2.870	−50.408	−0.0128
8		6.152	−50.450	
8		22.830	−50.365	
9	B.	18.808	−50.205	+0.0154
9		23.550	−50.132	
9	Br.	3.034	−50.204	−0.0086
10		6.292	−50.232	
10		0.542	−50.135	
10	B.	3.302	−50.028	−0.0060
11		6.632	−50.048	
11	Br.	1.600	−50.375	−0.0116
12		9.602	−50.468	
17	B.	4.978	−53.628	−0.0133
18		7.530	−53.662	−0.0508
18		11.230	−53.850	−0.0464
18		18.598	−54.192	
19	Y.	9.853	−54.477	−0.0514
19		11.818	−54.578	
19	B.	17.320	−54.865	−0.0168
19		18.630	−54.887	
21	B.	10.230	−56.910	−0.0722
21		11.200	−56.980	
23	B.	12.040	−59.898	−0.1030
23		17.790	−60.490	
23	Y.	5.050	−60.808	−0.0610
24		7.248	−60.942	−0.0549
24		12.983	−61.257	
24	B.	5.298	−61.632	−0.0341
25		7.583	−61.710	−0.0353
25		13.812	−61.930	
25	Br.	4.308	−62.345	−0.0324
26		7.547	−62.450	
26		14.470	−62.675	−0.0990
26		17.247	−62.950	
27	Y.	15.457	−63.440	......
27	B.	4.268	−63.778	−0.0464
28		9.095	−64.002	
28		16.225	−64.468	
28	Br.	4.452	−64.834	−0.0336
29		8.438	−64.968	
29		16.900	−65.578	−0.0345
29		18.985	−65.650	

TABLE VII—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

NINE-INCH TRANSIT CIRCLE—Continued.

Date.		Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1901			h		s
June	30	B.	17.553	−66.537	+0.0526
	30		18.503	−66.487	
	30	Y.	5.312	−66.692	−0.0550
July	1		7.583	−66.817	
	1		17.817	−67.690	+0.0781
	1		19.097	−67.590	
	1	B.	4.978	−67.800	−0.0470
	2		19.455	−68.480	
	2	Br.	5.096	−68.838	−0.0462
	3		7.630	−68.955	
	3		17.723	−69.593	−0.0052
	3		19.657	−69.603	−0.0289
	3		21.285	−69.650	
	4	B.	4.850	−70.935	−0.0287
	5		7.532	−71.012	
	5		22.540	−71.785	
	5	Br.	4.996	−72.016	−0.0441
	6		7.583	−72.130	
	8	B.	4.982	−75.032	−0.0132
	9		8.988	−75.085	
	9		17.553	−75.800	+0.0316
	9		18.817	−75.760	
	10	Br.	17.250	−77.077	......
	10	Y.	3.292	−77.365	......
	15	Y.	17.557	−85.483	......
	15	B.	5.122	−85.898	−0.0897
	16		9.270	−86.270	
	19	Br.	5.105	−33.740	−0.0693
	20		9.836	−34.068	−0.0608
	20		11.630	−34.177	
	21	B.	12.550	−35.890	−0.1205
	21		17.762	−36.518	
	23	B.	14.224	−39.474	......
	28	B.	18.270	−47.890	+0.0212
	28		18.883	−47.877	
	28	Y.	7.382	−48.672	−0.0859
	29		10.292	−48.922	
	29		17.547	−49.830	+0.0397
	29		19.487	−49.753	
	29	B.	6.212	−50.332	−0.0687
	30		9.780	−50.577	−0.0928
	30		18.240	−51.362	
	31	Br.	18.782	−53.148	−0.0396
	31		21.105	−53.240	
	31	L.	6.338	−53.775	−0.0755
Aug.	1		10.668	−54.102	−0.0950
	1		22.076	−55.186	
1901			h	s	s
Aug.	1	B.	6.415	−55.295	−0.0852
	2		9.852	−55.588	
	2	L.	6.633	−57.257	−0.0589
	3		10.165	−57.465	
	7	Br.	6.150	−65.125	−0.0757
	8		11.345	−65.518	
	8		4.838	−66.882	
	8	B.	7.018	−66.838	−0.0878
	9		10.685	−67.160	
	9	Y.	6.015	−68.850	−0.0936
	10		7.532	−68.992	−0.0750
	10		10.812	−69.238	
	20	B.	14.320	−12.642	......
	20	Y.	7.587	−79.147	−0.0879
	21		12.080	−79.542	−0.0848
	21		15.830	−79.860	
	21	Br.	7.482	−81.002	−0.1018
	22		12.080	−81.470	−0.0704
	22		16.314	−81.768	
	25	Br.	7.466	−20.934	+0.0075
	26		12.298	−20.898	
	26		17.377	−21.090	+0.0241
	26		20.034	−21.026	
	27	B.	21.035	−20.965	......
	27	Y.	9.340	−20.920	−0.0013
	28		13.278	−20.925	−0.0106
	28		21.805	−21.015	
	29	Br.	22.702	−21.010	......
	29	B.	8.195	−20.822	−0.0162
	30		12.885	−20.898	
	31	L.	0.548	−21.285	......
Sept.	1	L.	1.628	−21.455	......
	3	B.	0.090	−21.493	−0.0084
	3		3.525	−21.522	
	3	L.	8.332	−21.698	−0.0248
	4		13.740	−21.832	
	4	Hd.	22.210	−21.955	......
	4	L.	4.665	−21.892	......
	4	Y.	9.645	−21.788	+0.0192
	5		13.908	−21.706	
	5		5.665	−21.742	
	5	B.	9.598	−21.692	−0.0177
	6		12.598	−21.745	
	6	L.	9.430	−21.760	−0.0175
	7		12.970	−21.822	

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

NINE-INCH TRANSIT CIRCLE—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1901		h	s	s
Sept. 7	Hd.	22.130	−21.802	......
7	L.	7.418	−21.800	......
8	Y.	8.606	−21.624	+0.0209
9		12.434	−21.544	
9		21.673	−21.573	+0.0242
9		22.210	−21.560	+0.0993
9		0.757	−21.307	
10	L.	10.155	−21.340	−0.0212
11		13.790	−21.417	
12	Y.	0.312	−21.415	......
12	B.	9.482	−21.408	+0.0081
13		12.960	−21.380	
15	Y.	9.598	−21.430	+0.0384
16		13.765	−21.270	
20	Y.	10.155	−20.500	+0.0057
21		14.565	−20.475	−0.0302
21		18.635	−20.598	
22	L.	19.468	−20.462	......
22	Y.	9.997	−20.490	+0.0181
23		14.142	−20.415	−0.0246
23		20.452	−20.570	
23	B.	9.680	−20.312	−0.0110
24		14.032	−20.360	−0.0229
24		21.120	−20.522	+0.0749
24		0.058	−20.302	
25	L.	22.187	−20.547	......
25	Y.	9.842	−20.265	−0.0186
26		15.048	−20.362	−0.0200
26		23.195	−20.525	
27	B.	23.403	−20.613	+0.0502
27		0.300	−20.568	
29	Y.	10.800	−20.692	+0.0081
30		14.266	−20.664	+0.0079
30		3.200	−20.562	
30	B.	9.782	−20.490	−0.0227
Oct. 1		14.708	−20.602	
[illegible]	Br.	10.312	−21.272	+0.0053
3		14.478	−21.250	
3	B.	10.482	−21.060	+0.0153
4		15.192	−20.988	+0.0326
4		7.320	−20.462	
4	L.	10.460	−20.702	+0.0460
5		14.544	−20.514	+0.0246
5		8.180	−20.080	
6	Br.	9.324	−19.370	+0.0348
7		14.932	−19.175	

NINE-INCH TRANSIT CIRCLE—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1901		h	s	s
Oct. 7	B.	9.898	−18.408	+0.0110
8		15.348	−18.348	
10	B.	11.370	−17.190	+0.0264
11		15.468	−17.082	
14	B.	11.690	−11.427	+0.1021
15		15.695	−11.018	
15	L.	11.228	− 7.468	+0.1227
16		15.906	− 6.894	
16	Br.	11.227	− 2.837	+0.1817
17		15.585	− 2.045	
17	B.	12.172	+ 0.992	+0.0934
18		15.770	+ 1.328	+0.0473
18		18.560	+ 1.460	
18	Br.	11.440	+ 2.635	+0.1142
19		15.776	+ 3.130	+0.1101
19		18.520	+ 3.432	
20	S.	20.050	−16.538	......
20	Br.	11.462	+ 8.842	+0.0258
21		16.264	+ 8.966	+0.0586
21		21.025	+ 9.245	
21	B.	12.510	+10.143	+0.0288
22		15.880	+10.240	+0.0287
22		21.795	+10.410	
22	L.	11.367	+10.923	+0.0597
23		16.630	+11.237	
23	Br.	11.907	+12.253	+0.0545
24		16.108	+12.482	+0.0832
24		23.964	+13.136	
24	B.	12.098	+15.320	+0.1067
25		16.408	+15.780	+0.0856
25		0.608	+16.482	

SIX-INCH TRANSIT CIRCLE.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
		h	s	s
25	L.	12.268	−0.040	+0.0171
26		16.070	+0.025	
26		1.672	−0.072	
27	S.	2.655	+0.115	......
27	Br.	12.860	−0.010	−0.0094
28		17.433	−0.053	
29	B.	4.988	+0.350	+0.0215
29		6.710	+0.387	
29	L.	12.530	+0.045	+0.0284
30		16.655	+0.162	+0.0032
30		5.945	+0.205	
Nov. 1	B.	7.900	+0.472	......

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1901		h	s	s
Nov. 1	L.	12.310	+0.362	+0.0034
2		16.976	+0.378	
2		8.860	+0.465	
3	S.	9.760	+0.752	......
5	L.	12.510	+0.482	−0.0140
6		16.930	+0.420	
6	Y.	14.010	+0.750	−0.0032
7		17.102	+0.740	
7	Br.	13.188	+0.670	−0.0004
8		18.328	+0.668	
10	Y.	14.010	+0.915	+0.0248
11		17.040	+0.990	
12	L.	14.435	+0.590	+0.0006
13		17.588	+0.592	
13	Y.	13.140	+0.625	+0.0048
14		18.330	+0.650	
15	L.	13.765	−0.895	......
19	Br.	22.330	−1.375	......
19	L.	13.552	−1.388	+0.0030
20		18.172	−1.374	+0.0060
20		23.180	−1.344	
21	Y.	0.140	−1.068	......
21	Br.	13.952	−1.068	+0.0034
22		18.590	−1.052	+0.0084
22		1.030	−0.998	
24	Y.	14.255	−0.565	+0.0096
25		18.932	−0.520	
25	Br.	14.925	−0.595	+0.0110
26		19.010	−0.550	
26		5.138	−0.445	−0.0308
26		6.338	−0.482	
26	L.	14.290	−0.545	+0.0054
27		19.460	−0.517	
28	Y.	6.238	−0.240	+0.0191
28		7.545	−0.215	
29	L.	14.358	−0.228	+0.0054
30		19.216	−0.202	
Dec. 1	S.	10.265	+0.330	......
1	L.	14.793	+0.180	+0.0424
2		18.330	+0.330	+0.0900
2		19.853	+0.467	
3	Br.	11.860	+1.412	......
4	L.	12.768	+1.500	......
4	Br.	14.630	+1.565	+0.0015
5		19.356	+1.572	
1901		h	s	s
Dec. 5	L.	13.608	+1.598	+0.0035
6		19.845	+1.620	
6	B.	15.210	+1.700	+0.0043
7		19.895	+1.720	
9	Br.	14.892	+1.775	+0.0020
10		20.005	+1.785	
10	L.	14.793	+1.923	+0.0154
11		20.118	+2.005	
11	Br.	14.687	+2.153	+0.0050
12		19.732	+2.178	
15	S.	20.766	+2.648	......
16	L.	15.570	+2.458	+0.0050
17		20.328	+2.482	
17		22.725	+2.425	
18	B.	23.782	+2.542	......
19	Br.	0.688	+2.272	......
20	L.	1.548	+2.102	......
22	S.	3.588	+2.045	......
23	B.	15.628	+1.770	+0.0134
24		21.005	+1.842	
24		5.742	+1.765	
25	Br.	6.008	+1.448	+0.0017
25		7.210	+1.450	
26	Br.	16.056	+1.196	−0.0013
27		20.742	+1.190	+0.0048
27		5.940	+1.238	−0.0162
27		8.912	+1.190	
30	Br.	11.595	+0.640	......
30	L.	16.335	+0.480	+0.0024
31		20.568	+0.490	
31		12.382	+0.350	
1902				
Jan. 1	Br.	17.747	+0.353	−0.0096
2		22.220	+0.310	
2	B.	16.792	+0.392	−0.0037
3		21.380	+0.375	
3	L.	15.162	+0.010	−0.0055
4		20.953	−0.022	
4	S.	15.430	+0.080	......
7	L.	17.418	−0.640	+0.0006
8		20.820	−0.638	
12	Br.	17.766	−1.512	+0.0022
13		22.295	−1.502	
13	B.	17.463	−1.473	+0.0074
14		23.275	−1.430	

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1902		h	s	s
Jan. 14	L.	17.738	−1.752	+0.0190
15		21.628	−1.678	−0.0014
15		0.472	−1.682	
16	B.	17.545	−1.565	+0.0046
17		21.918	−1.545	−0.0016
17		2.280	−1.552	
19	S.	4.238	−1.490	−0.0037
19		6.123	−1.497	
19	Br.	17.680	−1.562	−0.0142
20		22.453	−1.630	+0.0134
20		5.306	−1.538	
23	Br.	5.998	−1.725	+0.0004
23		8.394	−1.724	
27	Br.	12.065	−1.605	......
27	B.	17.790	−1.410	+0.0069
28		21.405	−1.385	
Feb. 2	Br.	17.318	−1.388	−0.0143
3		22.492	−1.462	
4	L.	18.842	−1.498	+0.0133
5		22.832	−1.445	
5	Br.	18.318	−1.282	+0.0186
6		0.218	−1.172	
6	B.	18.818	−0.910	+0.0251
7		22.320	−0.822	
7	Br.	18.818	−0.780	+0.0196
8		23.932	−0.680	
9	Br.	18.630	+0.038	+0.0190
10		23.886	+0.138	
11	Br.	19.142	+0.924	+0.0219
12		1.820	+1.070	
12	Br.	18.706	+1.374	+0.0265
13		1.348	+1.550	
13	B.	19.038	+2.082	+0.0144
14		0.575	+2.162	+0.0217
14		2.880	+2.212	
17	Br.	6.080	+2.212	......
17	B.	19.010	+2.142	−0.0055
18		0.475	+2.112	−0.0087
18		5.855	+2.065	−0.0028
18		6.940	+2.062	
18	L.	20.053	+1.600	+0.0137
19		0.065	+1.655	−0.0078
19		5.855	+1.610	−0.0036
19		8.088	+1.602	
23	Br.	19.288	+0.628	−0.0026
24		1.525	+0.612	
26	L.	14.088	−0.006	......
1902		h	s	s
Feb. 28	B.	15.692	−0.332	......
28	L.	20.305	−0.558	+0.0063
Mar. 1		0.728	−0.530	
5	Br.	19.875	−1.360	−0.0133
6		0.532	−1.422	
6	Br.	19.942	−1.432	+0.0023
7		1.070	−1.420	
9	Br.	19.868	−0.420	+0.0025
10		0.997	−0.407	
13	Br.	2.897	−0.735	
13		20.840	−0.832	+0.0138
14		2.645	−0.752	
19	L.	8.502	−1.002	......
19	Br.	21.628	−1.052	−0.0162
20		1.640	−1.117	+0.0464
20		9.584	−0.748	
20	B.	21.380	−0.290	−0.0021
21		1.265	−0.298	+0.0043
21		10.495	−0.258	
22	L.	11.376	−0.580	.....
23	S.	12.132	−0.225	......
23	Br.	21.405	−0.355	+0.0083
24		1.640	−0.320	+0.0075
24		12.993	−0.235	
24	B.	21.385	−0.062	+0.0005
25		1.640	−0.060	+0.0062
25		13.742	+0.015	
25	L.	22.075	−0.260	+0.0216
26		4.095	−0.130	
29	L.	17.242	+0.108	......
31	Br.	18.782	+0.400	......
Apr. 11	Br.	21.660	+0.730	+0.0102
12		5.295	+0.808	
13	Br.	23.023	+0.820	......
15	S.	8.187	+1.118	......
15	Br.	23.733	+0.947	+0.0012
16		3.735	+0.952	
17	Br.	10.172	+0.934	......
18	S.	11.028	+1.095	......
19	Br.	11.705	+0.810	......
20	L.	12.675	+0.602	......
22	Br.	14.100	+0.027	......
23	L.	15.290	−0.275	......

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1902		h	s	s
Apr. 23	Br.	22.340	−0.355	+0.0044
24		4.446	−0.328	−0.0144
24		15.872	−0.492	−0.0216
24		17.258	−0.522	
26	L.	17.618	−1.322	......
27	L.	17.258	−1.632	......
27		18.455	−1.632	
29	S.	20.318	−1.875	......
29	L.	0.184	−2.062	......
30		21.028	−2.302	
30	Br.	23.048	−2.278	−0.0024
May 1		4.980	−2.292	−0.0121
1		21.644	−2.494	
1	L.	0.043	−2.513	+0.0047
2		4.962	−2.490	
4	Br.	0.240	−3.170	+0.0060
5		5.272	−3.140	
5	L.	0.423	−3.373	+0.0018
6		4.990	−3.365	
7	Br.	0.510	−3.758	+0.0176
8		5.060	−3.678	
9	S.	22.332	−3.945	−0.0054
10		6.153	−3.987	
13	S.	23.730	−5.385	−0.0042
14		5.720	−5.410	
14	Br.	0.790	−5.812	+0.0051
15		5.064	−5.790	−0.0100
15		10.747	−5.847	
15	R.	17.462	−5.770	......
17	S.	12.440	−6.055	......
18	L.	13.218	−6.572	......
19	Br.	13.862	−6.840	......
19	L.	1.640	−7.040	−0.0146
20		5.212	−7.092	
21	R.	15.370	−7.422	−0.0181
21		17.192	−7.455	
21	Br.	0.940	−7.722	−0.0092
22		5.078	−7.760	−0.0130
22		16.405	−7.907	
22	L.	0.972	−8.085	+0.0027
23		5.720	−8.072	
25	R.	17.002	−8.955	−0.0459
25		18.680	−9.032	−0.0141
25		21.086	−9.066	
1902		h	s	s
May 25	Br.	1.675	−9.322	−0.0173
26		6.650	−9.408	
27	L.	21.360	−10.232	......
28	S.	21.160	−10.517	......
28	Br.	1.392	−10.705	−0.0007
29		5.630	−10.708	−0.0098
29		20.135	−10.850	−0.0117
29		22.278	−10.875	
June 1	Br.	1.970	−11.970	+0.0168
2		6.492	−11.894	
2	L.	1.970	−12.435	−0.0038
3		6.663	−12.453	
3	S.	1.550	−12.680	−0.0164
4		6.422	−12.760	
4	L.	2.073	−13.277	......
5	Br.	1.590	−13.680	−0.0080
6		6.118	−13.716	
8	Br.	1.977	−18.933	+0.0224
9		7.698	−18.805	
9	L.	2.690	−18.980	−0.0012
10		6.918	−18.985	+0.0091
10		9.238	−18.964	
11	Br.	4.007	−19.483	+0.0131
12		7.140	−19.442	−0.0037
12		11.415	−19.458	
12	L.	2.832	−19.990	+0.0005
13		7.092	−19.988	
14	S.	12.775	−20.360	......
16	L.	3.452	−22.048	−0.0019
17		7.092	−22.055	−0.0196
17		15.402	−22.218	
17	S.	3.208	−22.198	−0.0027
18		7.580	−22.210	−0.0272
18		16.536	−22.454	
19	R.	17.135	−22.897	......
19	L.	3.796	−23.326	+0.0054
20		7.310	−23.307	
21	S.	17.428	−23.695	−0.0317
21		20.802	−23.802	
23	R.	20.100	−24.662	+0.0106
23		21.238	−24.650	
23	L.	3.745	−25.058	−0.0139
24		7.480	−25.110	−0.0246
24		20.097	−25.420	−0.0400
24		21.098	−25.460	

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1902		h	s	s
June 25	R.	2.632	−25.765	+0.0058
25		5.215	−25.750	−0.0174
26		8.096	−25.800	
30	L.	4.442	−28.290	−0.0147
July 1		9.214	−28.360	
1	S.	3.768	−28.610	−0.0050
2		9.316	−28.638	
4	S.	3.582	−30.205	−0.0171
5		8.860	−30.295	
8	S.	5.138	−24.592	+0.0185
9		11.450	−24.475	
10	L.	5.135	−24.470	+0.0120
11		9.900	−24.413	−0.0054
11		12.682	−24.428	
12	S.	13.570	−24.192	......
13	Br.	14.460	−24.325	......
13	R.	4.007	−24.283	+0.0239
13		5.470	−24.248	+0.0252
14		10.267	−24.127	−0.0082
14		15.253	−24.168	
14	L.	5.215	−24.460	−0.0070
15		16.958	−24.542	
15	S.	4.628	−24.380	−0.0008
16		13.100	−24.380	
16		16.677	−24.383	
16	R.	5.490	−24.383	+0.0033
17		10.267	−24.367	+0.0028
17		17.112	−24.348	−0.0433
17		18.545	−24.410	−0.0067
17		20.785	−24.425	
17	Br.	5.080	−24.604	......
21	R.	21.215	−24.760	......
21	Br.	5.423	−24.963	−0.0007
22		11.407	−24.967	+0.0015
22		19.508	−24.955	−0.0161
22		21.805	−24.992	
22	S.	4.258	−24.895	−0.0094
23		11.160	−24.960	
23		22.825	−24.960	
23	R.	6.060	−25.020	+0.0167
24		11.450	−24.930	−0.0064
24		23.912	−25.010	
31	L.	6.038	−26.105	−0.0044
Aug. 1		12.423	−26.133	
1	Br.	5.258	−26.190	+0.0045
2		11.988	−26.160	

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1902		h	s	s
Aug. 3	R.	5.470	−26.400	+0.0143
3		7.570	−26.370	−0.0106
4		11.332	−26.410	
4	L.	5.812	−26.742	−0.0043
5		11.832	−26.768	
6	R.	6.440	−26.860	−0.0022
7		11.905	−26.872	
7	L.	6.880	−27.180	+0.0020
8		12.948	−27.168	
8	Br.	6.308	−27.092	−0.0011
9		13.718	−27.100	
11	R.	16.155	−27.050	+0.0052
11		17.122	−27.045	
11	Br.	6.368	−27.288	+0.0025
12		11.505	−27.275	−0.0030
12		16.518	−27.290	
12	L.	7.190	−27.484	+0.0077
13		14.240	−27.430	
14	L.	6.507	−27.750	−0.0075
15		12.948	−27.798	
16	Br.	18.325	−27.808	−0.0034
16		20.704	−27.816	
17	L.	19.232	−27.885	−0.0268
17		20.686	−27.924	
17	R.	6.963	−27.660	+0.0115
18		14.550	−27.573	−0.0120
18		19.555	−27.633	+0.0049
18		21.603	−27.623	
18	L.	7.310	−27.847	+0.0167
19		13.582	−27.742	+0.0013
19		22.650	−27.730	
21	L.	7.352	−27.150	+0.0204
22		13.960	−27.015	+0.0051
22		1.065	−26.958	
22	Br.	6.838	−26.718	+0.0209
23		13.072	−26.588	+0.0100
23		2.028	−26.458	
24	L.	3.068	−26.248	+0.0270
24		7.440	−26.130	+0.0058
25		12.938	−26.098	+0.0023
25		4.026	−26.064	
25	Br.	7.086	−25.970	+0.0176
26		13.910	−25.850	+0.0115
26		4.896	−25.678	
26	L.	7.830	−25.752	+0.0074
27		13.250	−25.712	+0.0096
27		6.178	−25.550	

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

Date.		Ob-server.	Sidereal Hour.	Clock Correction.	Hourly Rate.
SIX-INCH TRANSIT CIRCLE—Continued.					
1902			h	s	s
Aug.	27	R.	7.570	−25.435	+0.0314
	28		13.790	−25.240	
	28	Br.	7.573	−25.043	+0.0229
	29		13.194	−24.914	
Sept.	4	S.	7.290	−22.375	+0.0120
	5		13.558	−22.300	
	5	R.	7.970	−22.185	+0.0170
	6		14.250	−22.078	
	7	S.	15.208	−21.866	......
	7	R.	8.256	−21.970	+0.0039
	8		15.466	−21.942	
	10	S.	16.610	−21.853	−0.0199
	10		20.475	−21.930	
	10	L.	8.938	−22.100	+0.0204
	11		13.250	−22.012	−0.0262
	11		18.508	−22.150	−0.0241
	11		20.375	−22.195	
	11	S.	8.872	−22.020	+0.0058
	12		13.715	−21.992	−0.0350
	12		18.460	−22.158	−0.0076
	12		20.688	−22.175	
	13	L.	18.975	−22.660	−0.0143
	13		20.375	−22.680	
	14	L.	18.975	−22.915	−0.0459
	14		20.825	−23.000	
	14	S.	9.740	−22.900	−0.0005
	15		13.558	−22.902	−0.0251
	15		22.152	−23.118	
	16	L.	22.992	−23.708	......
	17	L.	7.522	−24.122	−0.0040
	18		15.015	−24.152	−0.0207
	18		0.818	−24.355	
	22	L.	4.625	−25.995	......
	23	S.	5.952	−26.110	......
	28	L.	9.598	−32.188	+0.0149
	29		14.300	−32.118	
	30	R.	10.155	−31.695	+0.0148
Oct.	1		14.018	−31.638	
	1	L.	9.598	−31.672	+0.0215
	2		14.816	−31.560	
	2	S.	9.598	−31.272	+0.0265
	3		14.768	−31.135	
	5	L.	10.802	−30.578	+0.0056
	6		15.800	−30.550	

Date.		Ob-server.	Sidereal Hour.	Clock Correction.	Hourly Rate.
SIX-INCH TRANSIT CIRCLE—Continued.					
1902			h	s	s
Oct.	7	S.	17.165	−30.025	......
	8	L.	10.802	−29.625	+0.0219
	9		15.835	−29.515	+0.0065
	9		19.358	−29.492	
	9	S.	9.997	−29.110	+0.0119
	10		14.190	−29.060	+0.0211
	10		19.877	−28.940	
	12	S.	21.908	−28.610	......
	12	L.	10.490	−28.790	+0.0188
	13		15.018	−28.705	+0.0007
	13		22.706	−28.700	
	14	S.	23.808	−28.214	......
	14	R.	10.380	−28.158	+0.0160
	15		15.762	−28.072	+0.0058
	15		0.407	−28.022	
	15	L.	10.740	−28.120	+0.0089
	16		15.455	−28.078	+0.0051
	16		1.232	−28.028	
	18	L.	3.298	−27.388	......
	19	Br.	4.440	−26.812	+0.0204
	19		6.110	−26.778	
	19	R.	11.050	−26.660	+0.0148
	20		15.445	−26.595	+0.0196
	20		5.618	−26.317	
	20	Br.	10.802	−26.380	+0.0151
	21		14.900	−26.318	+0.0228
	21		6.582	−25.960	
	21	R.	10.802	−25.855	+0.0240
	22		15.382	−25.745	+0.0146
	22		7.022	−25.516	
	22	L.	10.802	−25.660	+0.0191
	23		15.945	−25.562	
	24	R.	9.785	−24.860	+0.0126
	25		16.000	−24.782	
Clock was stopped.					
	27	Br.	11.638	−17.188	+0.1555
	28		17.168	−16.328	
	28	L.	12.272	−13.348	+0.1468
	29		16.374	−12.746	
	29	L.	11.742	− 9.568	+0.1631
	30		16.268	− 8.830	
			12.424	− 7.598	+0.0591
	30	Br.	15.640	− 7.408	
	31				
Weight on pendulum bob increased.					
	31	R.	11.775	− 6.365	+0.0513
Nov.	1		16.452	− 6.125	

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
SIX-INCH TRANSIT CIRCLE—Continued.				
		h	s	s
1902 Nov. 2	L.	13. 158	— 4. 272	+0. 0633
3		16. 790	— 4. 042	
		Weight on pendulum bob increased.		
3	Br.	12. 252	— 3. 610	+0. 0170
4		17. 665	— 3. 518	
7	Br.	20. 750	— 2. 278	......
		Weight on pendulum bob increased.		
9	Br.	22. 288	— 1. 760	......
9	L.	13. 245	— 1. 785	+0. 0043
10		16. 705	— 1. 770	
12	R.	1. 050	— 0. 885	......
12	L.	13. 460	— 0. 937	+0. 0164
13		16. 198	— 0. 892	
		Weight on pendulum bob increased.		
13	L.	1. 860	— 0. 835	—0. 0185
13		2. 670	— 0. 850	
14	Br.	2. 772	— 0. 812	......
15	R.	3. 683	— 0. 803	......
16	Br.	4. 956	— 0. 908	+0. 0242
16		6. 115	— 0. 880	
18	R.	14. 290	— 1. 098	—0. 0290
19		16. 948	— 1. 175	+0. 0085
19		6. 278	— 1. 062	—0. 0237
19		8. 510	— 1. 115	
19	L.	13. 578	— 1. 325	+0. 0038
20		17. 572	— 1. 310	
		Weight on pendulum bob diminished.		
20	Br.	13. 245	— 1. 252	—0. 0025
21		17. 322	— 1. 262	+0. 0051
21		9. 297	— 1. 180	
22	R.	11. 288	— 1. 152	......
27	Br.	14. 338	— 1. 000	—0. 0046
28		18. 294	— 1. 018	
28	R.	13. 890	— 0. 638	+0. 0239
29		17. 572	— 0. 550	
30	L.	14. 008	— 0. 132	+0. 0029
Dec. 1		18. 138	— 0. 120	
1	Br.	14. 008	+ 0. 202	+0. 0078
2		17. 983	+ 0. 233	
3	R.	19. 482	+ 0. 585	......
5	Br.	21. 068	+ 1. 085	......
7	L.	14. 552	+ 1. 550	+0. 0191
8		19. 368	+ 1. 642	+0. 0229
8		23. 860	+ 1. 745	—0. 0055
8		4. 035	+ 1. 722	
1902 Dec. 8	Br.	14. 806	+ 2. 034	+0. 0021
9		18. 703	+ 2. 042	
9		0. 440	+ 2. 192	+0. 0257
9		3. 708	+ 2. 276	
9	R.	14. 618	+ 2. 360	+0. 0085
10		18. 748	+ 2. 395	—0. 0030
10		1. 465	+ 2. 375	
14	Br.	3. 860	+ 2. 518	—0. 0063
14		6. 227	+ 2. 503	
17	R.	8. 822	+ 2. 258	—0. 0138
17		11. 426	+ 2. 222	
17	L.	15. 078	+ 1. 968	—0. 0182
18		19. 808	+ 1. 882	—0. 0075
18		8. 390	+ 1. 788	+0. 0006
18		11. 950	+ 1. 790	
18	Br.	15. 440	+ 1. 882	—0. 0140
19		19. 450	+ 1. 826	
21	Br.	9. 020	+ 1. 810	—0. 0047
21		12. 452	+ 1. 794	
22	R.	11. 468	+ 1. 790	+0. 0125
22		13. 070	+ 1. 810	
23	Br.	0. 552	+ 1. 764	—0. 0044
23		3. 750	+ 1. 750	
23	R.	14. 743	+ 1. 740	......
25	Br.	15. 792	+ 2. 000	—0. 0042
26		20. 045	+ 1. 982	
26		0. 712	+ 2. 085	+0. 0087
26		3. 592	+ 2. 110	
26	R.	16. 188	+ 2. 200	+0. 0042
27		20. 490	+ 2. 218	
27		3. 592	+ 2. 290	
29	Br.	16. 388	+ 2. 150	—0. 0269
30		19. 288	+ 2. 072	
1903 Jan. 6	Br.	0. 720	+ 0. 678	......
8	Br.	16. 904	— 0. 316	—0. 0112
9		21. 894	— 0. 372	+0. 0003
9		3. 733	— 0. 370	
9	R.	17. 168	— 0. 480	—0. 0137
10		21. 180	— 0. 535	—0. 0032
10		4. 945	— 0. 560	
11	Br.	6. 475	— 0. 965	......
11	L.	16. 498	— 1. 272	—0. 0030
12		20. 820	— 1. 285	—0. 0137
12		6. 335	— 1. 415	—0. 0187
12		8. 478	— 1. 455	

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

Date.		Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
SIX-INCH TRANSIT CIRCLE—Continued.					
1903			h	s	s
Jan.	12	Br.	17.974	−1.434	+0.0032
	13		21.764	−1.422	
	13		7.652	−1.520	−0.0099
	13		8.870	−1.532	
	14	R.	9.262	−1.758	......
	14	L.	18.320	−2.088	−0.0147
	15		21.175	−2.130	−0.0143
	15		10.440	−2.320	−0.0064
	15		12.768	−2.335	
	15	Br.	18.492	−2.318	+0.0118
	16		21.540	−2.282	
	17	R.	11.010	−2.582	+0.0127
	17		13.293	−2.553	
	18	Br.	10.032	−2.848	−0.0066
	18		12.746	−2.866	
	18	L.	17.482	−24.574	+0.0769
	19		21.632	−24.255	
	20	R.	18.366	−22.688	−0.0069
	21		21.838	−22.712	
	30	Br.	6.566	−18.108	......
	30	R.	17.767	−17.597	+0.0548
	31		23.733	−17.270	
Feb.	5	L.	3.442	+3.865	......
	6	Br.	4.432	+5.868	+0.0215
	6		6.198	+5.906	
	8	Br.	5.972	+7.160	+0.0135
	8		7.450	+7.180	
	8	L.	18.554	+7.194	+0.0706
	9		0.222	+7.594	+0.0511
	9		5.978	+7.888	+0.0109
	9		7.727	+7.907	
	9	Br.	17.942	+8.628	+0.0726
	10		1.640	+9.187	+0.0803
	10		6.034	+9.540	+0.0626
	10		8.272	+9.680	
	11	R.	9.840	+11.190	......
	11	L.	19.138	+11.562	+0.0723
	12		0.062	+11.918	+0.0468
	12		9.935	+12.380	+0.0453
	12		10.818	+12.420	
	12	Br.	19.002	+12.942	+0.0197
	13		1.240	+13.065	+0.0086
	13		9.935	+13.140	+0.0109
	13		12.680	+13.170	
	17	R.	19.630	+15.007	+0.0542
	18		2.387	+15.373	
SIX-INCH TRANSIT CIRCLE—Continued					
1903			h	s	s
Feb.	18	L.	19.362	+15.990	+0.0811
	19		0.482	+16.405	
	19	Br.	20.050	+17.597	+0.1168
	20		0.768	+18.148	
	23	Br.	19.364	+20.562	−0.0070
	24		1.044	+20.522	
	24	R.	19.518	+20.418	+0.0276
	25		0.657	+20.560	+0.0275
	25		6.545	+20.722	
	25	L.	19.898	+20.655	+0.0291
	26		0.948	+20.802	−0.0053
	26		6.274	+20.774	
Mar.	2	Br.	20.050	+20.973	+0.0302
	3		1.582	+21.140	
	11	R.	10.126	+8.070	......
	11	L.	20.053	+8.197	+0.0512
	12		1.968	+8.500	+0.0201
	12		9.545	+8.652	+0.1032
	12		11.095	+8.812	
	12	Br.	19.900	+9.112	+0.0455
	13		2.622	+9.418	
	13		11.900	+9.780	+0.0203
	13		13.282	+9.808	
	13	R.	20.717	+10.007	+0.0510
	14		1.937	+10.273	
	14		12.280	+10.725	+0.0162
	14		13.393	+10.743	
	17	Br.	12.610	+12.952	+0.0308
	17		15.305	+13.035	
	17	R.	20.505	+13.080	+0.0599
	18		1.683	+13.390	
	24	R.	20.505	+7.485	−0.0340
	25		2.530	+7.280	
	25	L.	20.065	+6.535	−0.0292
	26		3.592	+6.315	
	26	L.	20.065	+5.985	−0.0030
	27		3.795	+5.962	
	31	R.	20.952	+6.792	+0.0230
Apr.	1		3.953	+6.953	
	4	R.	7.112	+8.705	......
	5	Br.	7.458	+9.480	+0.0344
	5		9.260	+9.542	
	5	L.	21.323	+9.807	+0.0496
	6		3.592	+10.118	+0.0273
	6		9.164	+10.270	
	8	Br.	10.818	+11.928	......

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1903		h	s	s
Apr. 8	L.	21.168	+11.998	
9		4.840	+12.425	+0.0557
9		11.714	+12.496	+0.0103
9		12.713	+12.510	+0.0140
9	Br.	21.232	+12.885	
10		4.718	+13.098	+0.0285
10		11.798	+13.428	+0.0466
10		13.282	+13.432	+0.0027
16	Br.	21.560	+16.280	
17		5.128	+16.318	+0.0050
17		17.318	+16.345	+0.0022
17		18.652	+16.325	—0.0150
17	R.	21.395	+16.245	
18		4.833	+16.373	+0.0172
18		19.584	+16.330	—0.0029
19	Br.	20.523	+16.097	......
20	L.	21.780	+15.557	
21		5.205	+15.582	+0.0034
23	Br.	21.232	+14.125	
24		6.002	+13.930	—0.0222
26	R.	12.322	+11.935	......
26	L.	22.025	+11.260	
27		5.128	+11.040	—0.0310
27		11.878	+10.652	—0.0575
27	Br.	22.158	+10.294	
28		5.070	+9.956	—0.0489
28		12.058	+9.660	—0.0424
28	L.	22.025	+8.905	
29		5.128	+8.570	—0.0472
29		11.878	+8.212	—0.0530
29	L.	22.320	+7.528	
30		5.128	+7.178	—0.0514
30	Br.	22.423	+6.197	
May 1		5.680	+5.822	—0.0517
1	R.	0.043	+4.697	
2		5.128	+4.508	—0.0372
3	L.	22.622	+1.820	
4		5.300	+1.398	—0.0632
4		9.532	+1.105	—0.0692
4		11.880	+0.918	—0.0796
4	Br.	22.622	+0.288	
5		5.792	—0.188	—0.0664
5		10.322	—0.488	—0.0662
5		12.015	—0.632	—0.0850
5	R.	0.043	—1.527	
6		5.135	—1.932	—0.0796
6		11.854	—2.370	—0.0652
6	L.	23.685	—3.565	
7		5.212	—3.950	—0.0697
1903		h	s	s
May 7	L.	12.124	+8.080	.....
7	Br.	22.092	+8.022	
8		5.205	+7.930	—0.0129
8		11.660	+7.938	+0.0012
8		13.168	+7.860	—0.0517
8	R.	23.748	+7.672	
9		5.550	+7.625	—0.0081
9		12.227	+7.523	—0.0153
9		13.950	+7.465	—0.0337
10	Br.	15.010	+7.030	......
11	L.	15.692	+6.535	
11		17.420	+6.465	—0.0405
12	Br.	16.052	+6.252	
12		17.420	+6.180	—0.0526
12	R.	0.040	+6.013	
13		5.128	+5.908	—0.0206
13		17.187	+5.493	—0.0344
14	L.	18.360	+4.340	......
14	Br.	0.565	+4.255	
15		6.850	+4.128	—0.0202
15		17.812	+3.765	—0.0331
15		19.565	+3.682	—0.0473
16	R.	20.195	+3.122	......
17	Br.	21.130	+2.405	......
18	L.	22.028	+1.538	
19		6.910	+1.352	—0.0209
19	R.	23.535	+0.848	
20		5.272	+0.688	—0.0279
20	L.	23.336	—0.224	
21		6.604	—0.476	—0.0347
28	L.	11.862	+2.128	......
June 1	L.	9.987	+0.480	......
2	Br.	11.132	+0.205	
2		12.808	+0.210	+0.0030
2	R.	1.550	+0.080	
3		6.875	+0.008	—0.0135
3		11.996	—0.062	—0.0137
3	L.	1.300	—0.538	
4		7.132	—0.625	—0.0149
4		11.893	—0.663	—0.0080
4		12.696	—0.648	+0.0187
8	L.	16.023	—2.457	
8		17.342	—2.514	—0.0432
9	Br.	17.205	—2.772	......
10	R.	18.094	—3.178	
10		20.498	—3.215	—0.0154

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1903		h	s	s
June 11	Br.	2.293	— 3.820	—0.0162
12		7.552	— 3.905	
14	Br.	20.410	— 4.918	—0.0429
14		21.668	— 4.972	
14	L.	1.925	— 5.230	—0.0114
15		8.948	— 5.310	—0.0254
15		22.268	— 5.648	
15	Br.	3.600	— 5.640	—0.0142
16		9.590	— 5.725	
17	R.	23.787	— 6.403	......
17	L.	2.652	— 6.662	—0.0181
18		8.515	— 6.768	
18	Br.	3.550	— 7.005	—0.0254
19		9.133	— 7.147	
21	L.	4.085	— 8.398	+0.0009
22		7.570	— 8.395	
			Clock was stopped.	
29	L.	17.462	—17.795	......
29	Br.	5.007	—17.850	—0.0127
30		8.790	—17.898	—0.0169
30		17.942	—18.053	
30	R.	4.680	—18.130	—0.0099
July 1		9.324	—18.176	—0.0413
1		13.053	—18.330	
1	L.	4.340	—18.805	—0.0113
2		9.198	—18.860	
2	Br.	4.298	—19.100	—0.0114
3		9.740	—19.162	
6	L.	15.815	—20.650	+0.0044
6		17.174	—20.644	
6	Br.	4.408	—20.738	—0.0008
7		9.728	—20.742	—0.0143
7		16.020	—20.832	—0.0307
7		18.463	—20.907	
7	R.	4.334	—20.939	—0.0110
8		10.220	—21.004	—0.0191
8		15.782	—21.110	—0.0502
8		17.335	—21.188	+0.0179
8		18.625	—21.165	
8	L.	4.340	—21.628	+0.0032
9		9.340	—21.612	—0.0272
9		17.282	—21.828	+0.0039
9		19.320	—21.820	
9	Br.	4.497	—21.813	—0.0149
10		10.215	—21.898	—0.0055
10		20.060	—21.952	
10	R.	4.960	—21.908	—0.0004
11		9.900	—21.910	—0.0117
11		19.978	—22.028	—0.0272
11		21.267	—22.063	

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1903		h	s	s
July 13	L.	20.755	—22.608	—0.0123
13		22.710	—22.632	
13	Br.	4.408	—22.532	—0.0086
14		10.215	—22.582	—0.0125
14		0.015	—22.755	
14	L.	5.092	—22.930	—0.0134
15		10.675	—23.005	
15	R.	0.028	—22.977	......
15	L.	4.968	—23.282	—0.0145
16		10.675	—23.365	—0.0161
16		23.540	—23.572	—0.0247
16		1.160	—23.612	
16	Br.	4.968	—23.520	—0.0150
17		10.288	—23.600	
19	L.	4.418	—24.952	—0.0045
20		11.095	—24.982	
20	Br.	5.066	—25.186	—0.0106
21		10.140	—25.240	
22	L.	5.445	+ 4.628	+0.0119
23		10.665	+ 4.690	
23	Br.	4.958	+ 4.975	+0.0119
24		10.255	+ 5.038	+0.0229
24		17.957	+ 5.214	
24	R.	5.070	+ 5.508	+0.0236
25		10.673	+ 5.640	+0.0146
25		18.136	+ 5.749	
27	Br.	4.958	+ 6.978	+0.0423
28		10.962	+ 7.232	
29	L.	5.212	+ 7.875	+0.0056
30		11.440	+ 7.910	
Aug. 4	R.	6.932	+15.580	+0.0025
5		13.780	+15.597	
5	L.	19.265	+15.272	......
6	Br.	6.382	+15.278	—0.0071
7		11.738	+15.240	
7		19.600	+15.182	+0.0082
7		20.937	+15.193	
9	Br.	20.508	+14.878	—0.0146
9		23.242	+14.838	
9	L.	6.572	+14.652	—0.0094
10		13.162	+14.590	
11	Br.	23.520	+14.402	+0.0100
11		0.825	+14.415	
11	R.	5.976	+14.494	—0.0103
12		12.170	+14.430	—0.0124
12		23.477	+14.290	
16	R.	5.552	+13.090	—0.0065
17		14.520	+13.032	

TABLE VII.—*The Adopted Corrections and Rates of the Standard Sidereal Clock*—Continued.

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Observer.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1903		h	s	s
Aug. 20	Br.	20. 063	+11. 839	. . . . . .
20	R.	6. 648	+11. 752	
21		12. 268	+11. 682	−0. 0125
21		20. 095	+11. 560	−0. 0156
21	Br.	6. 284	+11. 254	
22		12. 718	+11. 172	−0. 0127
22		19. 962	+11. 060	−0. 0155
23	R.	7. 482	+10. 445	
24		14. 005	+10. 460	+0. 0023
24		19. 980	+10. 298	−0. 0271
24	Br.	5. 322	+10. 012	
25		13. 330	+ 9. 858	−0. 0192
25		20. 022	+ 9. 708	−0. 0224
1903		h	s	s
Sept. 1	L.	18. 852	− 1. 260	
1		20. 425	− 1. 282	−0. 0140
2	R.	19. 258	− 1. 070	
2		20. 508	− 1. 065	+0. 0040
[illegible]	L.	7. 345	− 1. 330	
3		13. 438	− 1. 256	+0. 0121
3		20. 398	− 1. 325	−0. 0099
3	R.	7. 345	− 1. 132	
4		14. 286	− 1. 112	+0. 0029
4		19. 580	− 1. 100	+0. 0023
4		21. 230	− 1. 100	

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations.*

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
SIX-INCH TRANSIT CIRCLE.				
		321° 6′		
1900	h h	″	h	′ ″
Jan. 1–2	16.4—21.7	23.01	....	. .....
2	5.3— 6.0	23.72	....	. .....
3	....	.....	2.5	—1 36.55
3	16.57	23.35	18.5	—1 37.90
4	21.23	24.62	....	. .....
4	5.5— 6.0	24.75	....	. .....
4–5	15.9—23.0	24.42	18.2	—1 36.75
5	....	.....	20.8	—1 37.94
5–6	16.4— 0.1	24.61	17.8	—1 38.32
7	0.1— 1.4	24.56	2.6	—1 38.47
7–8	16.4—21.7	26.16	18.8	—1 39.67
8	1.2— 2.1	26.58	....	. .....
8	5.4— 5.8	27.00	....	. .....
8	....	.....	18.9	—1 39.68
9	1.1— 3.0	27.12	4.2	—1 40.42
12	4.9— 6.0	27.85	....	. .....
13	5.5— 6.5	17.10	6.2	—1 30.37
14–15	18.6—22.0	17.77	0.2	—1 31.36
15	5.5— 5.8	18.28	....	. .....
15	7.9— 8.5	17.42	....	. .....
15	....	.....	14.4	—1 29.83
15–16	19.8—21.9	18.47	22.9	—1 31.24
NINE-INCH TRANSIT CIRCLE.				
		321° 5′		
22	18.62	53.07	20.1	—1 8.63
23	22.26	51.50	3.0	—1 6.95
23	13.1—14.8	55.02	16.4	—1 8.33
23	18.45	53.68	19.4	—1 7.15
24	22.54	52.55	2.0	—1 6.78
25	18.10	55.20	....	. .....
26	22.23	53.97	....	. .....
26	....	.....	13.8	—1 9.22
26	18.25	56.16	19.5	—1 8.70
27	23.74	54.60	....	. .....
29	....	.....	0.5	—1 8.78
30	18.43	55.22	18.4	—1 10.68
31	22.77	54.35	0.6	—1 9.60
31	....	.....	13.1	—1 12.90
31	18.62	57.18	20.4	—1 10.45
Feb. 1	22.43	56.07	....	. .....
NINE-INCH TRANSIT CIRCLE—Continued.				
		321° 5′		
1900	h h	″	h	′ ″
Feb. 1–2	18.6— 3.4	57.23	20.2	—1 11.09
2	18.58	55.25	19.6	—1 10.29
3	23.55	52.68	....	. .....
4–5	18.9—23.5	54.38	20.3	—1 8.28
5	1.8— 2.4	54.78	2.7	—1 8.75
5	....	.....	14.7	—1 9.56
6	3.0— 3.7	56.07	2.7	—1 9.08
8	4.8— 5.5	53.60	2.4	—1 7.53
8	....	.....	14.5	—1 7.28
9	5.8— 6.5	55.90	5.7	—1 9.14
		321° 3′		
13	9.1— 9.9	56.92	8.8	+0 50.14
		321° 5′		
13–14	20.6— 1.1	55.74	23.1	—1 9.83
14	20.94	56.20	....	. .....
15	0.34	54.50	2.4	—1 9.22
18–19	19.7— 1.1	56.50	23.0	—1 11.12
19	13.6—15.2	58.60	15.8	—1 12.59
20	14.7—15.9	54.28	16.9	—1 7.78
22	16.4—17.2	52.40	16.2	—1 6.63
25–26	19.4— 1.1	53.13	23.3	—1 7.64
26	19.65	54.87	....	. .....
27	1.31	53.43	0.5	—1 7.02
Mar. 3	0.1— 2.0	53.48	0.5	—1 8.13
3	....	.....	12.3	—1 9.44
7	0.1— 2.0	53.02	0.6	—1 6.60
7	4.4— 5.0	53.58	5.3	—1 7.93
7	....	.....	12.4	—1 8.35
9	....	.....	5.3	—1 8.89
10	....	.....	2.8	—1 8.77
10	7.2— 8.4	56.28	9.5	—1 10.09
10	....	.....	12.3	—1 10.36
11–12	20.7— 2.1	54.04	23.8	—1 8.92
12	8.7— 9.6	55.70	8.9	—1 10.01
13	....	.....	2.9	—1 8.80
13	....	.....	15.2	—1 10 18
14	....	.....	2.5	—1 7.52
16	....	.....	0.2	—1 8.77
16	11.9—12.5	55.78	12.9	—1 10.16
17	....	.....	2.8	—1 9.04
17	12.2—13.6	57.48	15.1	—1 9.85
19	14.1—15.0	53.50	15.9	—1 7.88

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.	Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
NINE-INCH TRANSIT CIRCLE—Continued.					NINE-INCH TRANSIT CIRCLE—Continued.				
1900	h h	321° 5′ ″	h	′ ″	1900	h h	321° 5′ ″	h	′ ″
Mar. 20	15.0—16.0	56.88	16.9	—1 10.02	May 4	5.21	42.55	6.6	—0 56.52
20–21	20.7— 2.0	54.47	0.6	—1 8.74	4– 5	0.1— 9.2	43.28	2.2	—0 55.69
21	16.2—17.3	55.90	17.8	—1 10.01	5	....	.....	9.3	—0 56.72
21	21.63	55.20	....	. .....	6	9.2— 9.7	43.60	10.1	—0 57.12
22	1.97	53.18	3.4	—1 7.89	7	9.9—11.7	43.42	12.0	—0 56.58
22	17.1—19.0	55.13	19.5	—1 9.27	7	1.0	41.71*	2.1	—0 55.83
23–24	21.1— 3.0	55.50	2.5	—1 8.83	8	7.7	40.51*	6.8	—0 54.27
24	....	.....	5.5	—1 8.87	8	10.1—11.4	40.62	13.0	—0 54.17
26	21.94	55.90	....	. .....	9	11.5—13.6	42.60	13.0	—0 54.80
27	1.64	55.10	2.6	—1 8.71	9–10	0.1— 6.8	41.84	2.2	—0 55.40
27–28	21.1— 3.7	55.38	2.3	—1 9.35	10	....	.....	7.1	—0 55.36
28	....	.....	5.7	—1 9.95	10	12.0—13.0	43.48	13.7	—0 56.84
Apr. 1	22.43	55.58	....	. .....	10	....	.....	2.5	—0 55.33
2	2.53	54.53	2.3	—1 8.17	13	1.39	41.92	2.7	—0 55.98
2– 3	21.7— 4.5	55.52	2.4	—1 9.09	14	6.54	40.80	5.3	—0 55.45
3	....	.....	5.6	—1 9.36	14	15.8—16.2	43.70	....	. .....
4– 5	21.7— 4.2	55.64	2.5	—1 9.47	14	16.4—17.1	44.43	17.7	—0 57.18
5	5.8— 7.2	55.54	8.1	—1 10.28	14	1.39	42.68	2.8	—0 56.93
5– 6	23.0— 4.2	55.66	2.3	—1 9.45	15	7.23	41.15	8.0	—0 55.15
6	....	.....	5.8	—1 11.32	15	15.9—18.5	44.22	17.6	—0 57.69
7	7.8— 8.6	57.00	....	. .....	15	1.25	42.73	2.3	—0 56.39
8	8.7— 9.4	57.30	10.6	—1 10.94	16	6.04	41.70	7.2	—0 56.06
9	....	.....	5.8	—1 9.08	16	15.8—16.4	46.55	17.2	—0 59.40
9	9.2—10.1	56.45	10.5	—1 10.55	17	15.8—18.9	42.64	17.6	—0 56.40
9–10	22.6— 4.8	55.79	1.6	—1 9.94	20–21	1.8— 7.5	40.23	8.2	—0 53.45
10	10.1—11.0	56.90	11.3	—1 10.59	21	22.3—23.0	41.90	23.8	—0 54.43
13–14	0.1— 4.5	55.22	2.4	—1 9.60	21–22	0.6— 7.6	41.26	2.4	—0 54.26
14	13.1—13.8	57.30	12.2	—1 10.61	22	....	.....	7.3	—0 53.72
15	12.9—15.2	56.88	16.0	—1 10.38	22	22.6— 0.1	41.90	23.3	—0 55.13
19	16.0—18.5	46.67	17.6	—0 58.97	25–26	1.1— 7.2	39.79	2.7	—0 53.52
23	21.4—23.0	43.82	22.7	—0 57.75	26	....	.....	7.5	—0 53.21
23–24	0.1— 5.8	43.60	4.0	—0 57.27	31– 1	1.8— 8.4	39.74	2.6	—0 53.03
24	23.34	44.84	23.8	—0 58.31	June 1	....	.....	5.2	—0 53.20
25	....	.....	2.5	—0 57.70	1	....	.....	14.4	—0 53.32
25	5.01	43.10	6.4	—0 57.73	3	9.4—10.1	40.68	10.7	—0 54.15
25	0.07	45.30	....	. .....	4	10.1—11.2	40.32	11.5	—0 53.30
26	5.18	44.48	3.9	—0 57.87	4– 5	3.0— 7.7	39.40	5.7	0 52.78
26	....	.....	1.0	—0 57.79	5	10.1—11.5	39.88	10.7	—0 53.09
26–27	0.1— 5.9	44.08	5.7	—0 57.43	5– 6	1.8— 7.7	39.18	2.5	—0 52.76
27	0.42	45.07	....	. .....	6	....	.....	5.3	—0 52.30
28	5.26	43.84	2.9	—0 58.06	6	12.0—13.6	39.64	12.8	—0 53.30
May 3	0.48 ...	43.82	1.8	—0 56.61	6– 7	2.0— 7.6	39.74	7.1	—0 52.56

* Equator point obtained from least square solution, and used in reducing observations of the Sun and Venus.

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
NINE-INCH TRANSIT CIRCLE—Continued.				
		321° 5′		
1900	h h	″	h	′ ″
June 7	12.3—13.6	39.88	14.4	—0 52.35
7–8	1.8— 5.8	38.30	2.6	—0 51.92
8	....	.....	5.4	—0 52.03
8	15.9—16.9	39.42	17.3	—0 53.64
8–9	3.0— 7.7	38.89	5.9	—0 52.95
9	14.54	40.70	15.4	—0 54.10
9	16.19	41.85	....	. .....
10	14.8—15.8	40.48	15.0	—0 53.82
10	2.46	39.18	2.6	—0 52.06
11	7.26	38.42	6.1	—0 52.31
11	15.9—18.4	39.44	16.8	—0 52.58
14	....	.....	20.6	—0 54.00
19	23.0— 1.0	39.82	23.7	—0 54.08
19	4.07	38.38	....	. .....
20	8.84	39.40	6.7	—0 52.14
20	0.1— 1.8	39.55	1.6	—0 52.97
20–21	3.0— 7.6	39.00	6.3	—0 52.67
21	....	.....	1.6	—0 53.31
22	....	.....	12.5	—0 52.64
23	....	.....	12.7	—0 52.44
25–26	3.7— 9.3	39.05	6.8	—0 53.54
26	....	.....	1.9	—0 53.57
26	5.10	39.73	....	. .....
27	8.44	38.78	6.8	—0 52.92
28–29	4.5— 9.4	39.27	6.9	—0 53.39
29	....	.....	12.7	—0 53.21
30	7.49	39.05	8.1	—0 52.16
30	9.53	37.98	....	. .....
30	....	.....	14.5	—0 53.10
July 1	10.1—10.8	37.60	9.6	—0 51.96
1–2	4.5—11.2	38.86	7.1	—0 52.31
2	....	.....	10.2	—0 52.48
2	....	.....	14.1	—0 53.24
4	....	.....	0.7	—0 53.36
4–5	4.5— 9.8	38.76	7.9	0 52.65
5	....	.....	2.1	—0 53.57
5–6	4.5— 9.4	39.65	7.3	—0 54.10
6	13.5—14.8	40.02	15.2	—0 54.17
6	15.9—16.9	40.48	....	. .....
6	5.88	39.78	....	. .....
7	9.81	38.60	7.8	—0 52.79
7	14.7—15.4	40.95	15.8	—0 54.06
NINE-INCH TRANSIT CIRCLE—Continued.				
		321° 5′		
1900	h h	″	h	′ ″
July 8	15.7—16.5	39.84	15.2	—0 53.75
9	16.48	40.90	14.5	—0 53.64
9	17.93	41.68	16.8	—0 54.12
9–10	5.2—10.1	38.92	8.5	—0 52.61
10	15.32	40.17	....	. .....
10	18.26	40.80	19.2	—0 53.32
10–11	4.5— 9.7	37.61	7.8	—0 51.57
11	....	.....	14.4	—0 52.22
11	17.5—19.3	38.66	17.9	—0 51.92
11–12	4.5—10.5	38.06	6.9	—0 51.24
12	....	.....	0.9	—0 51.83
12–13	4.5—10.8	37.54	7.9	—0 51.01
13	15.7—17.2	39.28	17.0	—0 53.10
13	20.7—21.4	39.42	0.9	—0 52.95
13–14	5.2—11.2	38.42	7.9	—0 52.75
14	15.7—18.3	39.09	18.5	—0 52.71
14	21.7—22.3	41.12	22.9	—0 53.92
15	22.7—23.3	39.28	22.3	—0 52.84
15	5.18	37.58	7.1	—0 51.19
16	9.43	36.40	....	. .....
16	15.8—16.5	37.38	15.3	—0 51.07
16	23.6— 0.1	37.50	1.1	—0 51.18
16	5.46	37.98	7.1	—0 51.22
17	9.72	36.82	....	. .....
17	23.4— 1.8	38.27	2.4	—0 51.27
17–18	4.5—11.7	36.67	7.3	—0 50.01
18–19	5.2—11.2	36.66	7.4	—0 50.64
19	5.56	37.92	7.5	—0 51.20
20	9.59	37.25	....	. .....
20	3.4— 4.0	37.92	4.6	—0 51.45
20–21	5.2—11.2	36.88	7.6	—0 51.22
21	....	.....	17.7	—0 51.78
23–24	5.2—10.8	37.76	7.2	—0 51.20
24	17.9—18.5	38.18	19.7	—0 51.73
27	15.7—16.5	37.86	15.4	—0 51.56
27	5.46	37.76	7.9	—0 50.89
28	9.98	37.02	....	. .....
30–31	5.7—12.5	37.41	8.2	—0 51.12
31	....	.....	19.7	—0 52.57
31	7.04	37.12	8.3	—0 51.91
Aug. 1	9.84	37.80	....	. .....
1	12.9—13.5	37.32	12.6	—0 51.87

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.	Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
NINE-INCH TRANSIT CIRCLE—Continued.					NINE-INCH TRANSIT CIRCLE—Continued.				
1900	h h	321°5′ ″	h	′ ″	1900	h h	321°5′ ″	h	′ ″
Aug. 1- 2	5.7—11.1	37.59	8.4	−0 50.85	Aug. 31	15.0—16.0	36.10	16.3	−0 50.47
2	13.5—14.2	38.02	14.7	−0 50.69	31	7.52	37.25	10.4	−0 50.45
2	....	.....	19.4	−0 52.12	Sept. 1	13.34	35.87	....	......
2	6.79	37.38	7.9	−0 50.27	1	15.8—16.5	36.02	16.9	−0 50.40
3	11.04	36.65	....	......	1	....	.....	18.4	−0 50.80
3	14.1—15.0	37.75	13.9	−0 50.91	2	16.5—17.3	37.75	17.8	−0 51.16
3	....	.....	19.3	−0 51.68	3	17.3—18.4	36.85	17.6	−0 50.58
3- 4	6.3—11.7	37.10	8.7	−0 50.80	3- 4	7.6—14.2	36.78	9.7	−0 50.57
4	15.0—15.9	37.88	16.5	−0 51.59	4	18.3—19.3	37.90	19.7	−0 51.33
4	17.3—18.1	38.38	....	......	4	8.20	36.23	10.4	−0 49.06
5	16.2—17.1	38.20	17.9	−0 51.52	5	13.25	34.88	....	......
5	7.26	36.40	8.0	−0 50.19	5	19.8—20.4	36.52	19.1	−0 50.58
6	11.04	37.60	....	......	5	8.51	35.64	9.9	−0 49.06
6	17.3—18.4	38.90	17.8	−0 52.33	6	13.56	34.90	....	......
6- 7	5.8—11.7	37.64	8.2	−0 52.41	6	20.7—21.4	37.15	19.5	−0 50.13
7	18.1—19.2	38.58	19.0	−0 51.43	7	21.5—22.2	38.72	22.5	−0 52.06
7	7.20	37.18	8.0	−0 51.08	16	....	.....	0.4	−0 37.69
8	11.28	38.02	....	......	17	7.6— 9.4	34.30	11.2	−0 49.07
8	17.3—18.4	38.98	18.6	−0 52.16	18	....	.....	19.3	−0 49.46
8	19.3—19.8	38.80	....	......	18	....	.....	0.4	−0 49.63
8- 9	5.8—13.3	37.98	8.0	−0 51.70	18–19	8.8—14.7	35.66	11.4	−0 49.18
9	17.9—20.6	39.66	19.9	−0 52.47	19	....	.....	19.3	−0 49.96
9–10	6.5—11.2	38.13	8.2	−0 51.99	19	....	.....	0.4	−0 50.25
10	21.4—21.8	39.62	20.8	−0 53.02	19–20	8.7—14.2	35.37	10.9	−0 50.00
10–11	6.5—11.2	38.66	8.6	−0 51.37	20	....	.....	11.5	−0 48.64
11	17.5—18.8	39.55	....	......	22	....	.....	19.9	−0 62.12
11	22.3—23.0	39.54	21.6	−0 52.64	23	....	.....	0.4	−0 54.25
13–14	6.5—12.9	38.88	8.9	−0 53.20	23	9.53	41.74	11.0	−0 53.99
14	1.0— 1.7	40.42	2.3	−0 53.54	24	13.89	40.35	....	......
16	3.0— 4.5	43.45	5.2	−0 56.16	24	....	.....	19.9	−0 54.70
17	....	.....	17.9	−0 55.59	24	....	.....	0.3	−0 54.72
24–25	7.0—14.2	37.37	9.2	−0 52.13	24	9.63	40.86	11.5	−0 53.49
25	....	.....	19.5	−0 51.97	25	13.25	39.55	....	......
26	7.70	37.24	9.0	−0 50.11	25	....	.....	0.4	−0 54.71
27	12.52	36.20	....	......	25–26	9.3—14.8	41.12	11.5	−0 54.04
27–28	7.4—15.5	37.56	9.8	−0 51.04	26	....	.....	23.6	−0 55.08
28	....	.....	19.5	−0 51.71	26	....	.....	0.3	−0 54.74
28	7.2— 7.7	37.23	9.6	−0 50.61	26–27	9.3—16.2	41.03	11.5	−0 54.75
29–30	7.2—14.8	37.58	9.2	−0 51.15	27	....	.....	0.3	−0 54.93
30	....	.....	20.0	−0 51.90	Oct. 5	22.3—22.8	43.45	21.9	−0 56.12
30	8.18	36.60	9.6	−0 49.75	5	10.66	42.12	12.1	−0 55.17
31	13.56	35.80	....	......	6	14.17	40.90	....	......

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.	Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
NINE-INCH TRANSIT CIRCLE—Continued.					NINE-INCH TRANSIT CIRCLE—Continued.				
		321° 5′					321° 5′		
1900	h h	″	h	′ ″	1900	h h	″	h	′ ″
Oct. 6	....	.....	19.3	—0 56.17	Oct. 24	....	.....	19.8	—0 55.85
6	22.8— 0.0	43.14	0.4	—0 56.55	24	....	.....	0.3	—0 56.32
7	0.3— 1.0	43.80	23.7	—0 56.06	24	11.78	41.70	....	. .....
9	....	.....	21.9	—0 56.14	25	15.74	40.50	14.5	—0 54.86
9	2.1— 3.4	44.67	0.3	—0 56.14	26	....	.....	20.0	—0 56.44
9–10	10.1—15.2	42.29	12.6	—0 54.89	26	....	.....	0.3	—0 56.46
10	....	.....	22.3	—0 56.46	26–27	12.9—17.7	42.29	16.6	—0 56.03
10	3.4— 3.8	44.60	0.3	—0 56.70	27	....	.....	19.8	—0 57.02
10–11	10.2—14.5	41.15	12.9	—0 54.82	27	....	.....	0.3	—0 57.22
11	....	.....	19.2	—0 55.76	29	18.3—19.5	42.93	20.0	—0 56.95
11	....	.....	0.3	—0 56.67	29	....	.....	0.3	—0 56.27
11	4.4— 6.2	43.36	5.6	—0 57.06	29–30	11.7—17.1	41.79	13.7	—0 55.66
14	7.2— 7.8	42.32	8.1	—0 55.92	30	19.8—20.5	42.95	19.6	—0 56.39
14	11.06	42.55	13.0	—0 55.48	30	....	.....	0.3	—0 56.13
15	15.06	41.10	....	. .....	Nov. 2	20.2	43.72	20.9	—0 57.50
15	....	.....	19.5	—0 55.97	2	23.4	44.43	23.9	—0 57.62
15	....	.....	0.3	—0 56.99	4	0.7— 1.2	42.30	1.4	—0 56.79
15	5.8— 8.9	43.62	7.3	—0 57.39	4	12.49	41.72	13.7	—0 55.43
15–16	10.7—15.2	41.44	12.7	—0 54.89	5	15.99	40.62	....	. .....
16	....	.....	19.3	—0 55.95	5	....	.....	20.6	—0 56.45
16	....	.....	0.3	—0 55.85	5	....	.....	0.3	—0 57.12
16	8.6— 9.7	42.60	....	. .....	5	12.62	42.92	14.1	—0 56.02
16–17	10.1—15.7	42.44	13.3	—0 55.11	6	16.81	41.46	....	. .....
17	....	.....	19.4	—0 55.50	6	....	.....	20.6	—0 56.47
17	....	.....	0.3	—0 56.16	6	....	.....	23.9	—0 56.34
17	10.64	41.92	10.7	—0 55.14	6	11.99	42.42	13.6	—0 56.34
18	14.71	39.95	13.9	—0 55.16	7	16.13	41.56	....	. .....
18	....	.....	19.8	—0 55.79	8– 9	11.7—17.7	42.57	12.7	—0 56.20
18	....	.....	23.9	—0 56.26	9	....	.....	0.3	—0 55.94
18–19	10.1—15.2	41.94	13.1	—0 55.16	9	5.4 — 6.4	43.66	6.9	—0 57.13
19	....	.....	19.8	—0 54.99	9	13.45	42.30	14.6	—0 56.08
19	....	.....	0.3	—0 56.37	10	17.34	41.52	....	. .....
19	11.92	41.73	13.1	—0 55.16	11	....	.....	2.2	—0 56.48
20	14.81	40.90	....	. .....	11	12.96	42.20	14.1	—0 56.41
20	....	.....	19.9	—0 55.57	12	16.60	41.22	....	. .....
20	....	.....	0.3	—0 56.16	12	....	.....	2.1	—0 57.32
21	....	.....	0.3	—0 55.48	12	8.6—10.5	44.17	10.8	—0 58.17
21–22	11.2—16.5	40.96	13.3	—0 55.41			38° 56′		
22	....	.....	19.9	—0 55.02	17	....	.....	1.1	—1 28.36
22	....	.....	22.6	—0 55.47	19	....	.....	0.4	—1 4.46
23	11.64	41.02	13.3	—0 54.08	21	....	.....	1.0	—1 3.03
24	15.04	40.52	....	. .....	21	13.50	17.12	15.1	—1 1.77

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.	Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
NINE-INCH TRANSIT CIRCLE—Continued.					NINE-INCH TRANSIT CIRCLE—Continued.				
1900	h h	38° 56′ ″	h	′ ″	1900	h h	38° 56′ ″	h	′ • ″
Nov. 22	23.89	17.88	0.4	—1 1.85	Dec. 26	22.0—22.7	6.58	0.4	—0 50.72
27	20.1—21.5	11.78	22.0	—0 57.42	27	22.5—23.6	4.84	21.7	—0 49.85
27	....	.....	0.4	—0 57.60	27	....	.....	0.4	—0 49.79
29	22.4—23.0	12.12	23.6	—0 56.55	28	0.0—0.8	4.75	2.3	—0 49.53
29–30	13.3—19.8	12.34	15.9	—0 55.21	28–29	15.6—20.6	5.39	17.8	—0 49.34
30	22.8—23.9	10.58	22.2	—0 55.66	29	0.7—1.4	5.40	0.4	—0 50.58
30	....	.....	0.4	—0 55.96	1901				
30–1	13.8—19.8	10.14	13.2	—0 54.59	Jan. 1	....	.....	2.2	—0 49.24
Dec. 1	....	.....	18.3	—0 54.49	1	3.8—4.4	3.82	3.5	—0 48.53
2	1.0—1.8	10.82	2.4	—0 55.92	1	....	.....	18.3	—0 48.76
4	3.0—3.8	10.06	4.2	—0 54.33	[illegible]	....	.....	0.3	—0 49.41
4	14.37	9.42	16.0	—0 55.14	[illegible]	4.7—5.2	4.85	....	. .....
5	19.21	10.20	....	. .....	2–3	16.0—22.1	4.54	18.4	—0 48.81
5	....	.....	0.3	—0 55.32	3	....	.....	2.3	—0 48.70
5	4.0—5.9	9.72	3.7	—0 55.25	3	4.7—6.6	4.86	7.0	—0 49.41
6	....	.....	0.4	—0 54.40	3	15.78	4.60	18.0	—0 48.09
6	13.8—15.0	9.70	16.3	—0 53.92	4	20.03	3.20	....	. .....
8	5.4—6.3	8.80	....	. .....	4	....	.....	2.3	—0 48.79
8	7.7—8.2	9.80	7.4	—0 53.31	4	5.3—7.4	3.92	6.5	—0 48.80
9	8.2—9.0	9.88	10.5	—0 54.25	5	5.8—6.3	3.62	6.9	—0 48.07
9–10	13.8—19.0	8.99	16.5	—0 53.31	5	7.8—8.5	4.05	....	. .....
10	....	.....	0.4	—0 53.07	6	8.5—9.7	5.10	10.3	—0 49.09
10	8.2—10.6	9.35	8.5	—0 52.50	7	....	....	3.2	—0 49.23
11	....	.....	0.4	—0 52.92	7	9.6—11.4	3.28	10.4	—0 48.15
11	9.7—11.4	8.90	12.1	—0 52.53	7–8	16.4—20.6	4.31	18.1	—0 47.63
12	....	.....	0.2	—0 52.96	8	....	....	1.1	—0 48.56
12	15.21	8.22	16.4	—0 53.01	8	10.4—11.3	3.98	11.9	—0 48.43
13	19.16	11.96	....	. .....	9	....	....	1.1	—0 50.48
13	....	.....	0.4	—0 55.02	9	10.7—12.3	4.30	11.9	—0 49.82
13	10.1—12.6	9.52	13.0	—0 54.18	11–12	16.8—22.1	4.19	18.7	—0 47.74
13–14	14.2—19.5	9.25	16.7	—0 54.08	12	10.6—11.3	2.85	12.2	—0 47.59
14	....	.....	0.3	—0 54.08	12	13.0—14.2	3.35	....	. .....
14	10.4—12.6	8.66	11.3	—0 53.49	13	14.1—14.8	3.47	15.8	—0 47.52
14–15	15.2—19.0	9.29	16.9	—0 53.72	14	17.17	3.60	19.0	—0 48.29
15	10.4—11.1	7.82	12.1	—0 52.14	15	21.62	6.58	....	. .....
15	12.9—13.6	8.90	....	. .....	15	....	....	2.2	—0 50.70
16	14.38	8.62	16.9	—0 53.03	15	17.58	4.75	19.0	—0 48.37
17	19.08	7.98	....	. .....	16	21.25	6.25	....	. .....
17–18	14.7—19.1	9.15	16.7	—0 52.94	16	....	....	2.2	—0 52.69
19	....	.....	0.4	—0 51.14	16	....	....	5.7	—0 52.01
20	....	.....	0.4	—0 51.52	18	....	....	2.1	—0 49.14
21	....	.....	0.4	—0 50.60	18	....	....	5.1	—0 48.71

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
NINE-INCH TRANSIT CIRCLE—Continued.				
		38° 56′		
1901	h h	″	h	′ ″
Jan. 18–19	17.0—21.7	2.78	19.1	−0 46.32
19	....	....	0.5	−0 46.65
22	....	....	2.3	−0 48.29
28	3.1— 4.4	2.48	5.2	−0 47.42
29	4.80	2.38	2.3	−0 47.53
29	6.48	3.15	6.5	−0 47.45
30	18.9—19.8	2.20	20.3	−0 47.02
31	5.3— 7.7	3.06	7.9	−0 47.40
31	18.86	2.60	20.0	−0 46.72
Feb. 1	23.76	1.07	....	. .....
1	5.3— 6.3	1.25	6.5	−0 45.90
1	7.3— 8.0	2.47	....	. .....
1– 2	18.7—22.7	2.59	19.4	−0 46.22
3– 4	18.9— 0.2	2.40	20.2	−0 47.30
4	9.3—12.7	2.38	11.7	−0 46.36
4– 5	18.5— 1.1	2.37	20.4	−0 46.49
5	10.2—12.0	2.08	12.8	−0 46.42
5– 6	18.5— 0.2	2.46	20.3	−0 46.76
6	10.7—12.3	2.26	12.7	−0 47.31
6– 7	18.7— 0.2	3.78	20.4	−0 47.73
9	13.6—15.2	2.10	16.0	−0 46.48
10	14.7—15.7	2.28	15.9	−0 46.56
11–12	18.7— 1.1	1.80	20.9	−0 47.01
12	....	....	7.7	−0 47.26
12	16.4—17.2	2.18	17.4	−0 46.89
13	19.48	3.35	20.9	−0 45.95
14	0.48	2.02	....	. .....
14	....	....	6.5	−0 47.42
15	19.96	1.60	21.3	−0 46.48
16	23.73	3.63	....	. .....
18–19	19.0— 1.9	2.68	21.4	−0 47.38
19	....	....	7.9	−0 47.16
19–20	18.7— 0.7	1.91	21.4	−0 46.61
22	....	....	23.0	−0 45.46
24	2.6— 3.9	0.46	2.5	−0 45.38
24–25	19.6— 2.1	0.95	22.1	−0 45.27
25	3.0— 3.7	0.70 *	3.9	−0 45.91
25	4.3— 5.0	1.32	5.7	−0 46.48
26	....	....	2.4	−0 46.20
26	....	....	6.5	−0 47.06
26	20.01	1.55	21.5	−0 46.72
NINE-INCH TRANSIT CIRCLE—Continued.				
		38° 56′		
1901	h h	″	h	′ ″
Feb. 27	0.90	2.42	2.4	−0 46.88
27	3.0— 3.9	1.30 *	....	. .....
27	6.1— 6.7	1.18	7.2	−0 46.65
27–28	21.1— 1.1	1.90	22.2	−0 46.36
28	3.0— 3.9	0.80 *	4.7	−0 46.33
28	7.2— 8.5	0.88	7.8	−0 46.53
Mar. 1	8.1— 8.5	4.23	8.7	−0 48.63
5	9.7—10.3	1.58	10.8	−0 47.29
5	11.1—12.0	2.55	....	. .....
6	3.0— 3.9	0.92 *	2.6	−0 46.05
6	9.7—12.4	1.92	11.7	−0 46.68
6– 7	20.7— 4.4	0.57	22.8	−0 44.64
		38° 55′		
7	3.0— 4.1	59.25 *	4.8	−0 45.06
		38° 56′		
7	12.4—14.2	1.22	13.8	−0 45.44
11	16.3—17.4	3.97	16.8	−0 48.63
11	21.17	3.97	23.0	−0 48.36
12	1.25	4.78	2.7	−0 49.41
12	3.0— 3.5	3.70 *	....	. .....
16	....	....	6.6	−0 47.42
17	21.24	3.78	....	. .....
17	....	....	22.9	−0 48.26
18	2.02	5.83	....	. .....
18	....	....	7.3	−0 52.25
20	21.1—23.5	6.56	23.7	−0 50.76
21	....	....	18.5	−0 48.79
21–22	21.1— 3.5	5.21	23.7	−0 48.51
22–23	21.1— 2.1	6.58	23.9	−0 50.02
24	3.0— 3.7	7.17 *	....	. .....
24	3.7— 4.4	8.70	4.8	−0 52.63
26	....	....	13.9	−0 51.38
28	7.6— 8.5	4.35	9.0	−0 49.44
28	22.23	4.80	0.2	−0 48.88
29	3.79	4.07	....	. .....
31– 1	22.0— 1.1	1.62	23.8	−0 47.50
Apr. 1	9.6—10.0	3.27	....	. .....
1	11.0—11.8	3.62	12.0	−0 47.79
4	12.0—14.2	2.32	12.6	−0 47.40
4	21.47	2.23	....	. .....
5	3.84	4.05	....	. .....

* North stars.

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
NINE-INCH TRANSIT CIRCLE—Continued.				
		38° 56′		
1901	h h	″	h	′ ″
Apr. 8	....	....	1.5	—0 48.11
9	16.8 —18.6	3.14	19.3	—0 48.11
9–10	22.0 — 4.6	3.11	0.4	—0 47.68
10	17.16	3.14	18.5	—0 47.25
10	19.32	2.52	....	. .....
10–11	22.6— 3.9	2.35	0.5	—0 47.48
11	....	....	18.3	—0 48.27
11	0.08	3.75	0.4	—0 48.18
12	3.74	4.90	....	. .....
15–16	23.0— 2.1	3.03	0.8	—0 48.11
16	....	....	5.4	—0 48.00
16	23.69	3.85	0.8	—0 48.49
17	3.82	5.10	....	. .....
25–26	0.2— 4.3	4.82	1.4	—0 49.04
26	9.2—10.3	5.03	9.0	—0 49.71
26	....	....	12.5	—0 49.49
27	9.6—10.5	5.22	11.1	—0 49.29
28	10.6—11.4	4.52	11.6	—0 49.21
28	0.57	4.45	2.0	—0 49.94
29	4.58	6.10	....	. .....
29	9.9—12.1	6.28	11.2	—0 51.27
29	0.43	6.87	2.0	—0 50.54
30	4.10	8.50	....	. .....
30	9.6—13.1	9.05	11.4	—0 53.77
May 2– 3	0.0— 4.4	7.56	2.1	—0 52.12
3	14.7—15.7	5.40	....	. .....
3	16.3—17.3	4.48	16.3	—0 51.10
3	1.26	5.47	2.4	—0 50.26
4	4.99	6.18	....	. .....
4	15.7—16.2	6.13	16.6	—0 49.74
4	16.8—17.3	5.48	....	. .....
5	16.3—17.3	5.05	17.8	—0 50.37
5	18.5—19.4	3.40	....	. .....
5	....	....	2.5	—0 49.26
6	16.5—18.6	3.08	18.3	—0 48.47
11	22.0—22.7	5.72	22.8	—0 50.57
12–13	0.6— 5.4	6.89	2.6	—0 51.86
13	0.38	5.65	2.6	—0 50.57
14	4.60	6.80	....	. .....
14	....	....	11.7	—0 51.93
22	....	....	13.7	—0 52.11
23	7.3— 7.7	8.88	8.3	—0 53.59
NINE-INCH TRANSIT CIRCLE—Continued.				
		38° 56′		
1901	h h	″	h	′ ″
May 23	8.7— 9.7	8.72	....	. .....
23	....	.....	19.3	—0 54.10
28	12.9—13.7	8.25	12.8	—0 52.93
29	13.5—14.3	8.25	14.5	—0 52.13
30	14.6—16.1	7.87	13.6	—0 52.77
31	15.2—15.8	7.20	16.1	—0 51.99
31	16.8—17.4	6.55	....	. .....
June 3	16.5—19.3	9.27	17.8	—0 54.21
3	1.94	8.70	....	. .....
4	6.86	10.88	5.0	—0 53.09
4	16.5—19.4	9.33	17.9	—0 53.51
5	18.8—20.5	12.46	21.4	—0 56.27
5	2.70	9.80	4.3	—0 56.02
6	6.08	12.48	....	. .....
7	....	.....	18.5	—0 54.47
7– 8	1.8— 6.8	9.34	4.3	—0 54.06
8	22.5—23.2	7.90	0.0	—0 52.66
9	18.2—19.4	8.45	19.7	—0 53.43
9	23.2— 0.0	7.55	22.5	—0 52.41
9	3.03	7.70	4.7	—0 53.00
10	6.29	8.12	....	. .....
10	....	.....	17.7	—0 54.22
10	0.0— 1.1	8.28	23.7	—0 53.30
10	3.30	8.85	4.8	—0 54.15
11	6.63	11.30	....	. .....
11	1.60	10.75	2.4	—0 55.23
12	....	.....	6.7	—0 55.45
12	9.60	11.75	....	. .....
17	4.98	9.38	....	. .....
18	7.53	10.50	6.5	—0 54.12
18	10.8—11.6	10.38	11.8	—0 54.76
18	18.2—19.3	8.78	17.6	—0 54.20
19	9.6—12.1	10.56	10.6	—0 54.32
19	17.2—19.4	9.70	17.1	—0 55.33
21	10.0—11.4	11.44	10.8	—0 56.29
23	11.7—12.3	11.83	11.4	—0 56.21
23	17.2—19.1	11.95	17.1	—0 56.14
23–24	4.5— 8.3	11.39	5.7	—0 55.22
24	12.5—13.4	10.57	13.7	—0 55.07
24	....	.....	18.5	—0 55.46
24–25	4.5— 7.9	11.89	6.7	—0 55.22
25	13.3—14.3	11.18	14.6	—0 56.09

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
NINE-INCH TRANSIT CIRCLE—Continued.				
		38° 56′		
1901	h h	″	h	′ ″
June 25	4.31	11.05	5.6	−0 55.76
26	7.55	11.90	....	. .....
26	14.1—14.8	11.80	16.0	−0 56.82
26	16.8—17.4	12.38	....	. .....
27	14.9—16.2	13.33	16.7	−0 57.72
27	4.27	11.80	....	. .....
28	9.10	13.22	6.8	−0 55.94
28	15.9—16.6	13.10	17.2	−0 57.64
28	4.45	12.18	5.9	0 56.58
29	8.44	13.05	....	. .....
29	16.4—19.4	12.98	19.8	−0 57.52
30	17.2—19.0	13.38	17.0	−0 57.92
30– 1	5.1— 7.7	13.77	6.4	−0 57.66
July 1	17.2—19.6	14.53	17.7	−0 59.04
1– 2	4.5— 6.8	13.15	7.0	−0 56.63
2	19.3—19.9	12.40	19.0	−0 58.16
2– 3	4.5— 8.1	12.64	6.2	−0 57.20
3	17.77	13.85	....	. .....
3	20.59	12.79	20.2	0 57.82
4	4.85	13.45	....	. .....
5	7.58	14.33	7.9	−0 58.18
5	22.2—23.1	13.32	21.5	−0 58.90
5– 6	4.5— 7.7	13.36	6.4	−0 57.80
8	4.98	11.50	....	. .....
9	8.99	12.32	7.9	−0 55.23
9	17.2—19.3	11.55	17.0	−0 56.43
10	17.1—18.0	11.60	19.5	−0 56.82
10	2.6— 3.9	11.62	3.4	−0 55.94
15	17.2—18.8	12.78	18.5	−0 57.43
15	5.12	12.52	7.3	−0 57.12
16	9.27	14.20	....	. .....
19–20	4.8—12.2	11.99	7.4	−0 56.98
20	....	.....	12.6	−0 56.69
21	12.0—13.1	13.30	11.9	−0 57.50
21	17.2—17.5	13.25	16.9	−0 57.96
28	18.1—19.1	12.14	17.7	−0 56.16
28	7.38	10.85	7.9	−0 54.59
29	10.29	11.58	....	. .....
29	17.2—19.8	12.22	18.6	−0 57.13
29–30	5.8—10.3	12.33	7.6	−0 57.20
30	18.0—18.9	11.12	19.5	−0 56.76
July 31	18.3—19.3	9.68	20.3	0 54.37
31	20.5—21.6	9.23	....	. .....
31– 1	5.8—11.8	9.26	7.7	−0 54.59
Aug. 1	21.6—22.6	9.84	20.9	−0 55.63
1	6.42	10.15	8.3	−0 54.97
2	9.85	11.35	....	. .....
2– 3	6.5—10.6	9.97	7.8	−0 55.24
7	6.15	9.45	8.5	−0 54.59
8	11.32	10.60	....	. .....
8	....	.....	19.4	−0 56.16
8	4.3— 5.6	10.22	3.8	−0 55.48
8– 9	6.5—11.3	12.20	8.5	−0 55.37
9	....	.....	18.5	−0 59.86
9	....	.....	6.6	−0 58.51
9–10	7.3—11.8	14.78	8.7	−0 58.87
13	....	.....	18.4	−0 58.11
16	....	.....	17.4	−0 60.30
19	....	.....	18.4	−0 59.99
20	13.8—14.8	14.70	13.7	−0 59.60
20	....	.....	18.3	−0 60.01
20	7.59	14.10	9.1	−0 59.39
21	12.24	15.08	....	. .....
21	15.83	15.87	14.5	−0 59.65
21	7 48	14.64	9.1	−0 59.21
22	12.08	15.68	....	. .....
22	15.6—18.2	15.58	17.4	−0 60.62
25–26	7.2—13.4	13.97	9.4	−0 57.89
26	17.2—19.8	14.31	....	. .....
26	....	.....	21.3	−0 58.92
27	20.5—21.5	13.08	21.8	−0 58.26
27–28	8.6—14.2	14.06	11.4	−0 58.06
28	....	.....	18.4	−0 58.90
28	21.4—22.3	13.88	22.6	−0 58.73
29	22.3—23.2	13.00	23.8	−0 57.69
29	8.20	13.70	10.0	−0 57.84
30	12.88	15.45	....	. .....
31	0.1— 1.0	12.90	1.2	−0 58.47
Sept. 1	1.2— 1.9	12.50	0.6	−0 58.47
3	23.2— 1.5	12.70*	1.8	−0 58.33
3	3.1— 3.9	13.12	....	. .....
3– 4	7.5—14.2	12.09	10.3	−0 58.19

* North stars.

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

NINE-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
		38° 56′		
1901	h h	″	h	′ ″
Sept. 4	22.0—22.4	13.70	....	. .....
4	4.3—5.0	12.58	5.2	0 58.49
4	9.64	13.55	10.7	−0 58.40
5	13.91	14.10	....	. .....
5	4.9—6.3	13.35	6.6	−0 57.90
5–6	9.2—13.6	15.29	11.4	−0 58.13
6–7	8.1—13.9	13.04	10.5	−0 58.12
7	21.8—22.4	14.30	....	. .....
8–9	7.4—13.3	13.04	10.5	−0 58.00
9	21.5—22.4	12.29	23.7	−0 57.91
9	23.9—1.1	12.93	....	. .....
10	10.16	12.80	10.8	−0 58.16
11	13.79	14.67	....	. .....
12	23.5—1.1	14.25	1.9	−0 59.43
12–13	9.2—13.0	14.94	11.9	−0 59.43
15–16	9.2—14.2	15.20	10.6	−0 59.69
16	....	.....	14.5	−0 60.58
20	10.16	10.05	11.5	−0 54.96
21	14.56	11.00	....	. .....
21	18.1—19.3	10.50	17.7	−0 56.01
22	19.2—19.7	10.72	18.2	−0 56.60
22	10.00	11.43	11.3	−0 56.36
23	14.14	12.42	....	. .....
23	20.1—20.8	13.02	19.7	−0 57.54
23	9.68	13.75	....	. .....
24	14.03	14.52	12.6	−0 57.50
24	20.6—21.6	13.15	22.5	−0 57.82
24	23.2—0.6	12.45	....	. .....
25	22.0—22.6	11.28	22.9	−0 57.26
25–26	9.3—15.6	11.70	11.6	−0 56.53
26	22.7—23.6	11.40	0.2	−0 56.22
26	....	.....	11.8	−0 56.56
27	23.2—0.6	11.03	23.1	−0 56.88
29–30	10.0—15.3	15.10	12.1	−0 59.55
30	2.7—3.8	15.18	2.5	−0 60.27
30	9.78	15.20	....	. .....
Oct. 1	14.71	14.62	13.1	−0 59.52
1	....	.....	2.5	−0 59.48
2	5.1—5.6	13.18	....	. .....
2–3	9.7—15.2	13.08	12.1	−0 57.76
3	....	.....	1.7	−0 56.27
3	5.8—6.8	11.80	....	. .....

NINE-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
		38° 56′		
1901	h h	″	h	′ ″
Oct. 3–4	10.0—16.1	12.50	13.1	−0 57.23
4	6.9—7.6	11.88	7.8	−0 56.70
4–5	10.0—15.7	10.19	12.4	−0 55.92
5	....	.....	16.1	−0 56.48
5	8.0—8.4	10.52	7.7	−0 55.96
6–7	8.6—15.7	11.30	10.7	−0 55.71
7	....	.....	13.5	−0 56.05
7	....	.....	19.3	−0 56.85
7	9.90	12.20	....	. .....
8	15.35	13.15	13.5	−0 57.32
8	....	.....	18.3	−0 57.41
10	11.37	14.50	12.7	−0 58.83
11	15.47	15.80	....	. .....
14–15	11.1—16.2	13.91	11.4	−0 58.51
14	....	.....	13.1	−0 57.67
15	....	.....	16.8	−0 58.61
15	....	.....	19.5	−0 57.88
15	....	.....	10.2	−0 56.80
15	11.23	11.00	12.9	−0 57.03
16	15.91	12.82	17.2	−0 58.08
16	....	.....	10.4	−0 56.82
16–17	10.7—15.7	12.42	12.5	−0 57.13
17	....	.....	16.5	−0 57.36
17	....	.....	23.2	−0 57.33
17	....	.....	2.7	−0 55.96
17	....	.....	10.7	−0 56.59
17	12.17	11.68	13.3	−0 56.07
18	15.77	12.82	16.7	−0 56.42
18	17.9—18.9	12.18	19.4	−0 56.90
18	11.44	9.50	10.8	−0 54.47
18	....	.....	13.0	−0 55.01
19	15.78	11.84	17.1	−0 56.49
19	17.8—19.4	12.35	20.6	−0 57.56
20	19.7—20.4	11.40	19.3	−0 56.85
20	11.46	11.60	10.5	−0 56.63
20	....	.....	13.0	−0 56.73
21	16.26	13.10	17.2	−0 57.59
21	20.5—21.5	12.60	20.0	−0 57.39
21	....	.....	22.3	0 57.24
21	....	.....	11.5	−0 57.26
21	12.51	12.77	13.5	−0 57.05
22	15.88	16.92	17.2	−0 59.36

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
NINE-INCH TRANSIT CIRCLE—Continued.				
		38° 56′		
1901	h h	″	h	′ ″
Oct. 22	21.4—22.2	13.62	20.9	—0 58.51
22	....	.....	22.8	—0 59.09
22	11.37	12.23	10.6	—0 57.45
22	....	....	13.6	—0 58.58
23	16.63	14.77	18.1	—0 60.42
23	11.91	13.23	10.7	—0 58.33
23	....	.....	13.5	—0 58.59
24	16.11	14.35	17.3	—0 58.47
24	23.3— 0.1	12.65	22.4	—0 58.37
24	....	......	2.0	—0 56.48
24	....	....	11.3	—0 56.25
24–25	11.7—17.1	12.59	13.6	—0 56.95
25	....	.....	17.6	—0 57.09
25	0.3— 1.0	10.92	23.8	—0 55.76
25	....	.....	1.4	—0 56.26
SIX-INCH TRANSIT CIRCLE.				
		321° 5′		
25	12.27	23.7	13.5	—0 35.90
26	16.07	22.3	17.7	—0 35.63
26	1.2— 2.2	24.1	0.0	—0 36.10
26	....	....	2.5	—0 36.89
27	2.2— 3.2	23.2	1.8	—0 36.72
27	....	....	11.1	—0 36.51
27–28	12.8—17.8	20.8	13.8	—0 35.84
28	....	....	18.9	—0 35.79
29	4.7— 6.7	22.2	4.5	—0 36.99
29	....	....	7.9	—0 36.36
29	12.53	11.2	11.3	—0 23.71
29	....	....	14.0	—0 23.58
30	16.66	9.8	17.9	—0 23.42
30	5.5— 6.3	11.7	4.8	—0 24.49
30	....	....	6.8	—0 25.22
Nov. 1	7.4— 8.5	10.9	5.2	—0 23.91
1	....	....	8.7	—0 24.79
1	12.31	11.7	11.3	—0 24.48
1	....	....	14.1	—0 23.32
2	16.98	10.6	18.1	—0 23.64
2	8.5— 9.2	11.6	7.9	—0 23.92
[illegible]	....	....	9.7	—0 24.84
SIX-INCH TRANSIT CIRCLE—Continued.				
		321° 5′		
1901	h h	″	h	′ ″
Nov. 3	9.1—10.3	11.4	8.2	—0 23.97
5	....	....	10.6	—0 22.60
5– 6	11.1—18.3	9.9	14.5	—0 22.62
6	....	...	18.4	—0 22.74
6	....	....	23.8	—0 23.74
6	....	....	1.7	—0 24.45
6	....	....	11.4	—0 24.33
6– 7	11.7—18.4	10.0	16.0	—0 23.13
7	....	....	18.9	—0 23.28
7	....	....	11.5	—0 24.25
7– 8	11.7—18.8	10.0	14.4	—0 24.31
8	....	....	19.9	—0 24.22
8	....	....	23.0	—0 24.56
8	....	....	2.8	—0 25.92
10	....	....	11.7	—0 25.51
10–11	13.8—18.6	12.2	14.6	—0 26.16
11	....	....	18.9	—0 25.66
12	....	....	23.8	—0 25.55
12–13	13.8—18.6	11.7	16.1	—0 24.83
13	....	....	18.7	—0 24.78
13	13.14	12.4	11.9	—0 26.09
14	....	....	16.1	—0 25.82
14	18.26	14.3	19.5	—0 27.74
14	....	....	23.0	—0 27.45
14	....	....	2.4	—0 29.28
14	....	....	13.5	—0 29.53
15	12.8—14.7	15.4	12.7	—0 29.01
15	....	....	15.0	—0 28.11
18	....	....	12.7	—0 28.12
19	....	....	21.1	—0 27.81
19	22.0—22.7	17.0	22.9	—0 31.24
19	....	....	12.7	—0 27.08
19–20	12.8—19.4	13.5	15.2	—0 27.20
20	....	....	19.5	—0 26.74
20	22.7—23.6	13.5	22.2	—0 26.58
20	....	....	23.8	—0 27.25
21	....	....	22.6	—0 26.58
21	23.5— 0.8	14.5	1.4	—0 27.44
21	....	....	12.8	—0 26.16
21–22	13.3—19.5	12.8	15.4	—0 26.40
22	....	....	20.2	—0 26.86

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.	Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
		321° 5′					38° 55′		
1901	h h	″	h	′ ″	1901	h h	″	h	′ ″
Nov. 22	....	....	23.8	—0 26.62	Dec. 16	....	....	14.5	—0 37.02
22	0.7— 1.4	13.8	2.2	—0 27.65	16–17	14.6—23.0	50.2	17.3	—0 37.18
24–25	13.8—19.5	13.1	15.8	—0 28.26	17	....	....	21.7	—0 37.58
25	....	....	20.1	—0 28.19	18	23.5— 0.1	50.6	23.0	—0 37.51
25	....	....	13.1	—0 28.23	18	....	....	0.6	—0 36.12
25–26	14.1—19.7	13.8	17.6	—0 28.04	19	0.5— 1.3	50.0	23.7	—0 37.66
26	....	....	20.4	—0 27.91	19	....	....	2.8	—0 36.66
26	4.8— 6.6	13.8	4.2	—0 27.69	20	....	....	23.7	—0 38.17
26	....	....	7.4	—0 28.21	20	1.2— 1.8	51.4	1.2	—0 38.70
26	14.30	13.9	13.2	—0 27.93	22	3.1— 4.0	48.8	4.3	—0 34.25
26	....	....	15.7	—0 27.59	23	....	....	14.8	—0 34.75
27	19.46	15.0	20.2	—0 28.20	23–24	15.1—21.7	49.8	17.2	—0 34.64
27	....	....	5.9	—0 27.63	24	....	....	20.7	—0 35.49
28	5.8— 6.6	14.2	5.7	—0 26.78	24	....	....	4.8	—0 34.83
28	7.2— 8.0	15.4	8.8	—0 29.01	24	5.3— 6.3	48.8	6.7	—0 34.23
29	....	....	13.3	—0 28.39	25	....	....	4.6	—0 33.90
29–30	13.8—20.2	14.2	15.9	—0 27.92	25	5.7— 7.5	48.3	8.4	—0 34.56
30	....	....	19.4	—0 26.91	26	....	....	15.2	—0 33.98
Dec. 1	....	....	14.0	—0 36.02	26–27	15.5—21.7	48.6	17.9	—0 34.11
1– 2	14.1—20.2	22.4	16.2	—0 35.19	27	....	....	20.4	—0 34.59
2	....	....	19.6	—0 35.41	27	5.4— 6.3	47.2	5.0	—0 33.74
3	11.5—12.2	20.0	12.4	—0 34.15	27	8.5— 9.3	47.4	8.2	—0 33.67
3	....	....	14.0	—0 34.65	30	11.2—12.0	48.1	10.6	—0 33.77
4	12.2—13.4	21.1	13.6	—0 34.70	30	....	....	12.9	—0 32.68
4	....	....	13.8	—0 35.59	30	16.34	46.9	15.6	—0 33.89
4	....	....	16.4	—0 27.20	30	....	....	18.2	—0 34.49
5	....	....	20.5	—0 36.61	31	20.57	49.1	21.5	—0 36.07
5	....	....	12.8	—0 37.34	31	....	....	11.4	—0 34.96
5– 6	13.0—20.6	23.4	16.3	—0 36.61	31	12.1—12.7	48.3	13.2	—0 34.84
6	....	....	20.4	—0 35.52	1902				
6	....	....	13.9	—0 35.82	Jan. 1	....	....	18.2	—0 34.76
6	....	....	16.7	—0 39.28	1– 2	18.5—23.0	49.4	23.2	—0 35.42
7	19.3—20.6	25.8	20.8	—0 39.51	2	....	....	16.0	—0 37.45
9	14.89	19.5	14.5	—0 33.76	2– 3	16.3—22.1	51.7	18.4	—0 36.59
9	....	....	16.8	—0 34.66	3	....	....	21.3	—0 37.46
10	20.00	21.2	21.0	—0 34.68	3– 4	14.6—22.1	50.8	15.8	—0 37.83
		38° 55′			3	....	....	18.5	—0 37.51
10–11	14.1—20.8	47.5	16.8	—0 34.59	4	....	....	22.2	—0 38.05
11	....	....	21.1	—0 34.80	7	....	....	16.1	—0 43.98
11	14.69	47.7	14.4	—0 33.59	7	17.42	56.6	18.8	—0 44.57
11	....	....	16.8	—0 33.35	8	20.82	57.8	21.9	—0 45.06
12	19.73	49.0	20.9	—0 34.25	12	....	....	16.4	—0 40.90

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.	Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
		38° 55′					321° 5′		
1902	h h	″	h	′ ″	1902	h h	″	h	′ ″
Jan., 12–13	17.5—23.0	56.2	19.2	—0 41.14	Feb. 6– 7	18.5—23.0	21.2	20.7	—0 35.08
13	....	....	23.4	—0 40.67	7	....	....	23.0	—0 36.24
13	....	....	16.5	—0 42.17	7	18.71	19.2	19.7	—0 34.13
13–14	17.1— 0.0	55.8	18.9	—0 42.07	7	....	....	20.9	—0 34.58
14	....	....	23.8	—0 40.95	8	23.93	20.6	23.7	—0 35.73
14	17.74	54.2	16.6	—0 42.05	9–10	18.2— 0.6	23.1	21.0	—0 38.47
14	....	....	19.4	—0 42.18	10	....	....	23.8	—0 37.92
15	21.63	56.0	....	. .....	11–12	18.5—21.8	22.8	19.5	—0 37.28
15	0.0— 1.0	56.2	23.7	—0 42.72	11	....	....	21.3	—0 36.79
		321° 5′			12	....	....	2.2	—0 37.20
16	....	....	16.8	—0 39.91	12–13	18.2— 2.2	20.7	19.7	—0 35.56
16–17	17.0—22.7	27.0	19.3	—0 40.80	12	....	....	21.3	—0 35.71
17	....	....	22.9	—0 40.71	13	....	...	0.9	—0 35.94
17	....	....	1.1	—0 36.29	13	19.04	19.6	18.4	—0 35.80
17	2.0— 2.6	23.6	3.1	—0 37.43	13	....	....	20.9	—0 34.45
19	3.6— 4.8	22.6	5.1	—0 37.14	14	0.58	21.7	1.3	—0 36.38
19	5.8 6.4	24.1	....	. .....	14	2.3— 3.5	22.1	3.3	—0 36.13
19	....	....	16.8	—0 36.36			38° 55′		
19–20	17.0—23.0	22.4	19.5	—0 37.45	17	5.7— 6.4	59.1	5.2	—0 44.17
20	....	....	23.3	—0 36.69	17	....	....	7.6	—0 44.29
20	4.7— 5.9	24.2	4.2	—0 36.87	17	19.01	60.1	18.6	—0 45.38
20	....	....	6.7	—0 37.81	17	....	....	21.3	—0 45.14
22	....	....	16.9	—0 36.63	18	0.62	57.3	0.9	—0 43.88
22	....	....	20.0	—0 36.47	18	5.5— 7.4	59.6	5.4	—0 46.54
23	5.7— 6.3	23.6	5.2	—0 36.96	18	....	....	7.8	—0 45.76
23	8.1— 8.7	23.0	9.7	—0 37.88	18	20.05	60.3	18.9	—0 46.56
27	11.7—12.5	19.4	11.2	—0 34.09	18	....	....	21.7	—0 46.22
27	....	....	13.5	—0 34.33	19	0.07	57.8	0.7	—0 45.06
27	....	....	17.3	—0 32.21	19	5.5— 8.5	58.0	6.6	—0 44.87
27–28	17.5—22.3	18.5	20.1	—0 33.35	19	....	....	8.6	—0 45.25
28	....	....	22.9	—0 31.17	19	....	....	19.3	—0 45.68
Feb. 2	17.32	21.3	20.6	—0 34.91	23	....	....	10.4	—0 46.00
3	22.49	20.4	23.8	—0 35.31	23–24	18.9— 2.2	59.3	20.2	—0 44.02
4	18.84	22.6	18.0	—0 36.45	23	....	....	22.1	—0 44.82
4	....	....	20.8	—0 35.63	24	....	....	2.4	—0 44.88
5	23.53	20.5	23.7	—0 35.17	26	....	....	13.0	—0 45.94
5– 6	17.8— 0.9	22.0	19.1	—0 36.30	26	13.6—14.8	58.4	14.9	—0 45.40
5	....	....	20.0	—0 36.94	26	....	....	20.1	—0 44.73
6	....	....	23.9	—0 37.09	26	....	....	22.2	—0 44.50
6	....	....	18.0	—0 34.70	28	....	....	14.4	—0 49.16

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.	Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
		38° 56′					38° 56′		
1902	h h	″	h	′ ″	1902	h h	″	h	′ ″
Feb. 28	15. 1—16. 0	3. 9	16. 6	—0 49. 77	Mar. 25	....	....	2. 4	—0 47. 62
28	20. 30	2. 5	19. 5	—0 48. 86	25	....	....	12. 5	—0 48. 26
28	....	....	22. 5	—0 49. 22	25	13. 3—14. 2	1. 92	14. 6	—0 47. 40
Mar. 1	1. 30	4. 3	2. 2	—0 51. 35	25–26	21. 1— 4. 6	1. 38	22. 1	—0 46. 83
5	19. 88	4. 6	20. 4	—0 49. 41	25	....	...	23. 8	—0 48. 06
5	....	....	22. 7	—0 49. 05	26	....	....	4. 6	—0 48. 54
6	0. 53	3. 1	1. 8	—0 48. 58	29	....	....	16. 4	—0 50. 29
6– 7	19. 4— 1. 1	2. 8	20. 8	—0 47. 78	29	16. 5—18. 0	3. 85	18. 0	—0 49. 70
6	....	....	22. 8	—0 48. 42	31	....	....	17. 9	—0 47. 38
7	....	....	2. 3	—0 49. 02	31	....	....	20. 0	—0 46. 88
9–10	19. 6— 2. 1	3. 4	20. 8	—0 48. 36	Apr. 10	....	....	21. 5	—0 46. 78
9	....	....	23. 1	—0 48. 74	11–12	21. 6— 5. 6	2. 44	22. 4	—0 46. 35
10	....	....	2. 3	—0 48. 45	11	....	....	0. 6	—0 46. 64
10	....	....	20. 2	—0 48. 81	12	....	....	4. 8	—0 46. 87
10	....	....	22. 6	—0 47. 89	13	....	....	5. 1	—0 46. 78
13	1. 8— 3. 7	3. 62	2. 3	—0 48. 97	13	22. 0— 0. 1	0. 40	23. 2	—0 46. 31
13–14	20. 1— 3. 9	4. 37	21. 5	—0 48. 97	13	....	....	0. 8	—0 46. 96
13	....	....	23. 2	—0 49. 74	15	....	....	6. 6	—0 46. 57
14	....	....	2. 6	—0 49. 61	15	7. 3— 9. 1	0. 00	9. 7	—0 46. 88
19	8. 4— 8. 9	2. 33	7. 8	—0 49. 13	15–16	22. 7— 4. 6	0. 53	23. 6	—0 47. 79
19	....	....	9. 5	—0 48. 71	15	....	....	1. 2	—0 45. 98
19–20	20. 7— 2. 1	3. 24	21. 9	—0 48. 51	16	....	....	4. 7	—0 47. 38
19	....	....	23. 6	—0 48. 92	17	....	....	9. 1	—0 41. 32
20	....	....	3. 3	—0 49. 47			321° 5′		
20	9. 1—10. 0	3. 26	8. 6	—0 48. 88	17	9. 7—10. 7	27. 20	11. 0	—0 42. 10
20	....	....	10. 6	—0 48. 77	18	....	.....	9. 5	—0 40. 73
20–21	20. 7— 2. 1	3. 25	20. 9	—0 48. 72	18	10. 4—11. 6	27. 68	12. 3	—0 41. 55
20	....	....	23. 6	—0 49. 12	19	11. 3—12. 2	29. 42	10. 7	—0 41. 79
21	....	....	1. 6	—0 48. 75	19	....	.....	13. 3	—0 42. 85
21	....	....	9. 5	—0 47. 75	20	....	.....	11. 8	—0 40. 83
21	10. 2—10. 8	1. 90	11. 3	—0 48. 16	20	12. 2—13. 1	27. 50	13. 2	—0 41. 13
22	....	....	10. 3	—0 48. 15	22	13. 8—14. 5	25. 60	13. 2	—0 40. 08
22	11. 0—12. 0	1. 24	12. 1	—0 47. 71	22	....	.....	15. 6	—0 40. 83
23	....	....	11. 0	—0 47. 94	23	14. 7—15. 8	26. 95	15. 9	—0 39. 58
23	11. 7—12. 7	2. 12	13. 0	—0 47. 57	23	22. 34	24. 20	23. 5	—0 39. 51
23–24	21. 1— 2. 1	1. 80	21. 8	—0 47. 20	23	....	.....	1. 6	—0 39. 11
23	....	....	23. 7	—0 46. 79	24	4. 45	22. 72	5. 8	—0 38. 69
24	....	....	2. 8	—0 48. 83	24	15. 6—17. 6	26. 34	15. 1	—0 39. 86
24	12. 4—13. 5	1. 90	11. 9	—0 47. 33	24	....	.....	18. 4	—0 40. 50
24	....	....	14. 3	—0 47. 25	26	....	.....	16. 3	—0 38. 05
24	....	....	20. 9	—0 47. 32	26	17. 0—18. 2	24. 75	18. 3	—0 39. 13
24–25	21. 1— 2. 1	2. 37	23. 8	0 47. 71	27	17. 0—17. 6	26. 40	16. 3	—0 40. 16

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.	Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
SIX-INCH TRANSIT ,CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
		321° 5′					321° 5′		
1902	h h	″	h	′ ″	1902	h h	″	h	′ ″
Apr. 27	18. 1—18. 9	26. 98	19. 0	—0 40. 69	May 19	13. 4—14. 3	25. 26	12. 9	—0 39. 19
29	....	.....	19. 0	—0 38. 59	19	....	.....	15. 1	—0 39. 68
29	19. 9—20. 6	24. 02	21. 4	—0 39. 23	19–20	1. 0— 5. 9	24. 26*	1. 5	—0 39. 55
29	22. 9— 1. 1	24. 65	23. 3	—0 39. 15	19	....	.....	3. 4	—0 39. 38
29	....	.....	1. 9	—0 38. 57	20	....	.....	6. 2	—0 39. 01
30	....	.....	5. 7	—0 38. 00	20	....	.....	0. 7	—0 40. 03
30	....	.....	19. 9	—0 38. 75	21	....	.....	13. 6	—0 40. 77
30	20. 5—21. 5	25. 35	21. 8	—0 39. 56	21	14. 7—18. 2	26. 51	18. 4	—0 40. 05
30	23. 05	25. 62	23. 8	—0 39. 81	21	0. 94	27. 10	1. 5	—0 42. 15
30	....	.....	2. 2	—0 39. 11	21	....	.....	3. 7	—0 41. 57
May 1	4. 96	22. 40	5. 9	—0 38. 20	22	5. 14	26. 32	6. 3	—0 41. 62
1	20. 7—22. 1	25. 72	21. 8	—0 40. 92	22	15. 9—17. 1	26. 17	15. 3	—0 41. 24
1	24. 04	25. 80	23. 2	—0 40. 62	22	....	.....	18. 1	—0 41. 11
1	....	.....	2. 2	—0 39. 58	22–23	0. 1— 6. 6	26. 05	0. 5	—0 41. 34
[illegible]	4. 96	23. 78	5. 5	—0 37. 90	22	....	.....	3. 4	—0 40. 91
4	0. 24	25. 40	23. 7	—0 41. 21	23	....	.....	7. 1	—0 40. 17
4	....	.....	2. 5	—0 40. 03	25	....	.....	15. 2	—0 40. 12
5	5. 27	23. 96	6. 5	—0 39. 85	25	16. 5—22. 1	26. 47	22. 8	—0 41. 09
5	0. 56	25. 35	23. 7	—0 39. 05	25	1. 64	25. 47	2. 2	—0 41. 13
5	....	.....	2. 4	—0 39. 16	25	....	.....	3. 8	—0 41. 38
6	4. 99	23. 50	5. 7	—0 38. 17	26	6. 66	26. 52	7. 9	—0 41. 29
7	....	.....	23. 6	—0 38. 38	27	20. 6—21. 6	25. 82	20. 3	—0 39. 82
7– 8	23. 9— 5. 5	23. 21	2. 6	—0 38. 86	27	....	.....	22. 0	—0 41. 33
8	....	.....	6. 2	—0 38. 90	28	20. 1—22. 6	27. 50	20. 9	—0 40. 55
9	22. 33	26. 45	0. 5	—0 39. 35	28	....	.....	22. 9	—0 41. 76
9	....	.....	2. 5	—0 39. 06	28	1. 39	27. 30	1. 3	—0 42. 27
10	6. 15	23. 97	7. 2	—0 38. 41	28	....	.....	3. 9	—0 40. 98
13–14	22. 7— 6. 6	23. 50	1. 3	—0 39. 12	29	5. 63	25. 94	7. 2	—0 40. 67
13	....	.....	2. 8	—0 39. 04	29	19. 8—21. 4	28. 90	19. 4	—0 42. 94
14	....	.....	6. 9	—0 38. 92	29	22. 0—22. 7	30. 42	23. 3	—0 44. 17
14–15	0. 0— 5. 5	24. 57	1. 3	—0 39. 77	June 1	1. 97	29. 12	2. 3	—0 44. 15
14	....	.....	2. 9	—0 40. 02	1	....	.....	4. 4	—0 43. 55
15	....	.....	6. 0	—0 39. 84	2	6. 38	27. 67	7. 5	—0 43. 35
15	....	.....	9. 4	—0 39. 81	2	1. 97	28. 88	1. 3	—0 43. 30
15	10. 2—11. 3	25. 97	12. 0	—0 40. 21	2	....	.....	4. 3	—0 42. 07
15	16. 8—18. 2	26. 63	15. 6	—0 39. 61	3	6. 66	27. 77	7. 2	—0 41. 58
15	....	.....	19. 8	—0 40. 04	3– 4	1. 0— 7. 7	28. 10	1. 7	—0 43. 05
17	....	.....	11. 3	—0 39. 39	3	....	.....	4. 3	—0 42. 67
17	12. 0—13. 0	25. 65	13. 7	—0 39. 67	4	....	.....	8. 3	—0 42. 39
18	....	.....	12. 2	—0 39. 13			38° 55′		
18	12. 9—13. 5	26. 25	13. 6	—0 39. 78	4	1. 4— 3. 0	52. 73	1. 3	—0 39. 41

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*The value 24″.4 was incorrectly used in the reductions of Nos. 11, 12, and 16 on page A 176. The necessary changes, however, have been made in the declinations of the Sun and Mercury on pages A 288 and A 304.

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.	Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
		38° 55′					38° 55′		
1902	h h	″	h	′ ″	1902	h h	″	h	′ ″
June 4	....	.....	4.1	—0 39.73	June 24	....	.....	10.1	—0 38.16
5	1.59	51.90	2.8	—0 38.08	24	....	.....	19.2	—0 38.29
5	....	.....	4.7	—0 38.61	24	19.7—21.6	52.76	21.8	—0 39.13
6	6.12	53.68	7.6	—0 39.45	25–26	1.8— 9.4	51.66	2.7	—0 38.12
8	1.98	51.50	3.2	—0 38.01	25	....	.....	5.5	—0 38.31
8	....	.....	4.7	—0 38.21	26	....	.....	9.9	—0 37.45
9	7.70	52.70	7.9	—0 38.26	30	....	.....	3.3	—0 36.95
9	2.69	52.00	2.7	—0 38.73	30– 1	3.7—11.2	50.22	6.3	—0 36.79
9	....	.....	4.7	—0 38.87	July 1	....	.....	10.6	—0 36.65
10	6.92	53.42	....	.....	1– 2	2.9—10.1	50.27	4.2	—0 36.52
10	8.6— 9.7	53.74	8.4	—0 39.38	1	....	.....	6.3	—0 36.48
11	....	.....	8.7	—0 41.04	2	....	.....	7.9	—0 36.48
11	4.10	52.65	3.5	—0 39.64	4– 5	2.9—10.1	51.05	4.7	—0 36.75
11	....	.....	5.1	—0 39.96	4	....	.....	6.4	—0 37.74
12	7.45	54.94	9.5	—0 40.59	8	....	.....	4.2	—0 36.94
12	11.1—11.8	54.62	12.4	—0 40.51	8– 9	4.5—11.8	51.57	6.7	—0 36.89
12	2.83	51.72	2.7	—0 38.80	9	....	.....	12.0	—0 37.64
12	....	.....	5.1	—0 38.91	10	....	.....	4.2	—0 38.33
13	7.09	53.32	7.9	—0 39.48	10–11	4.5—13.1	51.78	6.8	—0 38.16
14	12.2—13.4	54.18	11.9	—0 39.55	11	....	.....	10.7	—0 38.46
14	....	.....	13.9	—0 40.15	11	....	.....	12.8	—0 38.22
16	....	.....	2.3	—0 39.33	12	....	.....	12.5	—0 37.57
16–17	2.6— 7.7	52.28	5.2	—0 39.20	12	12.9—14.2	52.38	14.6	—0 38.40
17	....	.....	7.8	—0 39.34	13	14.1—14.8	53.45	13.6	—0 39.20
17	....	.....	14.5	—0 39.00	13	....	.....	15.5	—0 39.60
17	14.9—15.8	52.28	15.1	—0 38.62	13–14	3.7—11.2	51.72	4.2	—0 37.48
17–18	1.8— 7.6	51.70	3.4	—0 38.42	13	....	.....	6.8	—0 36.86
17	....	.....	5.1	—0 38.28	14	....	.....	10.7	—0 37.86
18	....	.....	8.3	—0 38.32	14	14.1—16.1	52.32	13.6	—0 37.65
18	15.9—17.3	53.42	15.6	—0 39.27	14	....	.....	16.8	—0 39.20
18	....	.....	17.7	—0 39.38	14	4.5— 6.7	51.24	5.0	—0 37.92
19	16.3—18.0	51.12	16.7	—0 38.18	14	....	.....	7.3	—0 37.70
19	....	.....	18.7	—0 38.57	15	15.9—19.3	52.66	16.7	—0 38.49
19	3.80	51.84	3.5	—0 38.19	15–16	3.8—13.4	52.58	5.7	—0 38.47
19	....	.....	5.5	—0 38.13	15	....	.....	7.2	—0 38.46
20	7.36	52.60	8.0	—0 38.58	16	....	.....	10.5	—0 37.28
21	17.0—21.4	50.74	18.5	—0 37.06	16	16.3—17.2	51.40	15.9	—0 38.16
21	....	.....	19.6	—0 37.71	16	5.49	50.97	7.0	—0 36.60
23	19.7—21.6	51.31	18.7	—0 38.76	17	10.26	51.40	10.9	—0 37.00
23	....	.....	22.7	—0 38.63	17	16.5—19.3	53.22	15.9	—0 38.71
23–24	2.9— 7.5	51.22	4.0	—0 37.56	17	19.5—21.6	53.10	22.4	—0 38.71
23	....	.....	5.9	—0 37.99	17	4.5— 5.6	52.18	6.2	—0 37.71

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.	Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
1902	h h	38° 55′ ″	h	′ ″	1902	h h	38° 55′ ″	h	′ ″
July 17	....	.....	7.5	—0 37.72	Aug. 12	....	.....	15.3	—0 37.72
21	20.8—21.6	52.10	22.6	—0 38.44	12	16.0—17.6	51.85	17.8	—0 38.37
21–22	4.8—12.5	52.32	7.8	—0 37.74	12	7.19	52.34	6.3	—0 39.13
22	....	.....	12.2	—0 38.18	12	....	.....	9.2	—0 39.17
22	19.2—22.3	51.74	20.6	—0 37.47	13	14.24	51.40	14.8	—0 38.28
22	....	.....	22.9	—0 37.25	14–15	6.2—13.9	51.10	6.9	—0 37.23
22–23	3.8—11.2	52.42	4.1	—0 38.62	14	....	.....	9.4	—0 37.38
22	....	.....	7.4	—0 38.49	15	....	.....	13.6	—0 37.80
23	....	.....	11.4	—0 38.48	16	18.1—21.5	51.64	18.9	—0 37.16
23	....	.....	21.9	—0 38.73	16	....	.....	22.1	—0 37.70
23	22.5—23.2	51.85	23.8	—0 38.22	17	....	.....	18.4	—0 38.46
23	....	.....	4.2	—0 37.82	17	18.8—21.4	52.04	21.1	—0 37.68
23–24	5.1—11.8	50.52	7.8	—0 37.00	17	6.97	49.70	6.2	—0 36.71
24	....	.....	12.3	—0 37.57	17	....	.....	9.3	—0 36.42
24	23.5— 0.2	51.42	0.9	—0 38.46	18	14.55	51.67	15.1	—0 37.63
31– 1	5.7—13.4	51.89	6.8	—0 37.56	18	....	.....	18.0	—0 38.38
31	....	.....	8.4	—0 37.55	18	18.8—22.3	52.15	23.0	—0 38.84
Aug. 1	....	.....	12.6	—0 37.80	18	7.31	50.60	7.4	—0 37.49
1– 2	5.0—12.9	52.19	6.2	—0 37.60	18	....	.....	9.5	—0 37.58
1	....	.....	8.5	—0 37.36	19	13.57	51.95	14.4	—0 38.21
2	....	.....	11.5	—0 38.39	19	....	.....	22.2	—0 37.62
3– 4	5.1—12.5	51.85	6.0	—0 37.55	19	22.3—23.2	51.68	23.3	—0 37.37
3	....	.....	8.7	—0 37.29	21–22	6.6—14.5	50.82	7.2	—0 36.97
4	....	.....	12.7	—0 37.34	21	....	.....	9.8	—0 37.59
4	5.81	50.95	6.2	—0 37.23	22	....	.....	14.0	—0 37.21
4	....	.....	8.7	—0 37.79	22	0.7— 1.4	50.48	0.4	—0 38.25
5	11.83	52.15	13.1	—0 38.17	22	....	.....	1.9	—0 37.20
6	....	.....	4.9	—0 37.45	22–23	6.5—13.9	50.98	7.8	—0 37.18
6– 7	5.3—13.4	51.49	8.4	—0 37.73	22	....	.....	9.8	—0 37.53
7	....	.....	13.5	—0 37.49	23	....	.....	14.1	—0 37.13
7	6.89	51.20	6.2	—0 37.36	23	1.6— 2.4	50.42	1.0	—0 37.52
7	....	.....	8.9	—0 37.82	23	....	.....	3.1	—0 36.86
8	13.36	52.13	13.4	—0 38.28	24	....	.....	2.1	—0 37.45
8– 9	5.8—14.2	52.06	7.8	—0 38.45	24	2.7— 3.5	50.22	3.7	—0 37.22
8	....	.....	8.8	—0 38.10	24	....	.....	7.0	—0 37.33
9	....	.....	14.6	—0 37.85	24–25	7.2—14.2	50.91	9.9	—0 37.05
11	....	.....	14.2	—0 39.16	25	....	.....	14.0	—0 37.59
11	15.5—17.4	52.37	18.0	—0 38.75	25	....	.....	3.1	—0 36.99
11–12	5.8—12.9	51.94	7.0	—0 37.81	25	3.7— 4.4	49.36	4.8	—0 36.15
11	....	.....	9.1	—0 38.13	25–26	6.6—14.7	50.95	8.1	—0 36.33
12	....	.....	11.5	—0 37.95	25	....	.....	10.1	—0 37.29

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
		38° 55′		
1902	h h	″	h	′ ″
Aug. 26	....	.....	14. 9	—0 36. 89
26	4. 5— 5. 4	51. 08	4. 1	—0 37. 27
26	... .	.....	6. 0	—0 37. 16
26	7. 83	50. 86	8. 1	—0 36. 94
26	....	.....	10. 1	—0 37. 25
27	13. 26	52. 35	14. 0	—0 38. 38
		321° 5′		
27	5. 8— 6. 6	29. 80	5. 1	—0 43. 02
27–28	7. 4—14. 2	28. 42	8. 3	—0 42. 91
28	....	.....	14. 6	—0 42. 86
28	7. 62	28. 95	8. 5	—0 45. 00
28	....	.....	10. 2	—0 44. 38
29	13. 28	27. 95	14. 1	—0 42. 89
Sept. 4	7. 29	27. 60	8. 6	—0 42. 40
4	....	.....	10. 4	—0 42. 22
5	13. 56	26. 38	14. 3	—0 41. 01
5– 6	6. 5—15. 3	27. 38	7. 9	—0 42. 42
5	....	.....	10. 6	—0 41. 83
6	....	.....	15. 6	—0 41. 41
7	....	.....	14. 1	—0 41. 55
7	8. 26	27. 84	8. 3	—0 42. 52
7	....	.....	10. 7	—0 42. 01
8	15. 47	27. 14	16. 7	—0 41. 41
10	16. 3—21. 4	26. 27	17. 2	—0 41. 35
10	....	.....	21. 7	—0 42. 01
10	8. 82	27. 88	8. 4	—0 42. 33
10	....	.....	11. 0	—0 41. 96
11	13. 25	27. 32	14. 1	—0 41. 01
11	18. 1—20. 8	28. 09	18. 0	—0 41. 39
11	....	.....	21. 0	—0 41. 46
11	8. 87	26. 92	8. 8	—0 41. 82
11	....	.....	10. 8	—0 41. 77
12	13. 72	26. 28	14. 0	—0 41. 50
12	....	.....	17. 2	—0 41. 46
12	18. 1—21. 4	27. 59	20. 0	—0 41. 90
13	18. 5—20. 8	29. 11	18. 3	—0 40. 71
13	....	.....	21. 3	—0 43. 43
14	....	.....	18. 3	—0 40. 40
14	18. 5—21. 5	27. 17	21. 0	—0 40. 96
14	....	.....	8. 8	—0 40. 86
14–15	9. 2—14. 2	24. 92	11. 0	—0 40. 43
15	....	.....	14. 6	—0 40. 17
		321° 5′		
1902	h h	″	h	′ ″
Sept. 15	21. 8—22. 5	28. 00	21. 4	—0 40. 63
15	....	.....	23. 1	—0 41. 26
16	....	.....	21. 7	—0 41. 14
16	22. 6—23. 4	29. 15	23. 8	—0 42. 76
17	....	.....	7. 2	—0 41. 46
17–18	7. 3—15. 7	27. 74	11. 4	—0 41. 37
18	....	.....	16. 3	—0 41. 41
18	0. 3— 1. 3	29. 98	0. 2	—0 41. 85
18	....	.....	1. 7	—0 42. 72
22	....	.....	3. 9	—0 42. 93
22	4. 3— 5. 0	29. 48	5. 4	—0 43. 44
23	5. 4— 6. 6	28. 20	4. 9	—0 42. 21
23	....	.....	7. 3	—0 42. 24
28	9. 60	28. 78	9. 0	—0 42. 91
28	....	.....	11. 9	—0 42. 49
29	14. 30	27. 10	15. 0	—0 41. 65
30	....	.....	8. 9	—0 41. 92
30– 1	10. 0—14. 7	27. 48	12. 2	—0 42. 15
Oct. 1	....	.....	15. 0	—0 42. 25
1	9. 60	26. 80	9. 8	—0 40. 85
1	....	.....	12. 2	—0 40. 56
2	14. 82	26. 26	15. 4	—0 40. 09
2	9. 60	26. 22	10. 4	—0 40. 99
[illegible]	....	.....	12. 2	—0 40. 89
3	14. 77	25. 22	15. 5	—0 40. 06
		38° 55′		
5– 6	10. 0—16. 9	47. 41	10. 6	—0 34. 32
5	....	.....	12. 4	—0 34. 04
6	....	.....	17. 1	—0 33. 48
7	....	.....	17. 2	—0 32. 96
8	10. 80	46. 45	9. 9	—0 32. 41
8	....	.....	12. 7	—0 32. 86
9	15. 84	47. 20	17. 1	—0 33. 48
9	19. 0—19. 9	47. 08	18. 7	—0 33. 78
9–10	9. 6—14. 2	46. 85	10. 9	—0 33. 52
9	....	.....	12. 7	—0 33. 37
10	....	.....	15. 3	—0 33. 41
10	....	.....	18. 8	—0 32. 59
10	19. 2—20. 6	46. 26	20. 9	—0 31. 61
12	....	.....	20. 4	—0 32. 94
12	21. 4—22. 5	47. 30	22. 9	—0 32. 54
12	10. 49	46. 13	10. 7	—0 32. 27

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
SIX-INCH TRANSIT CIRCLE—Continued.				
		38° 55′		
1902	h h	″	h	′ ″
Oct. 12	....	.....	13.0	—0 32.66
13	15.01	47.52	16.3	—0 33.59
13	22.0— 0.0	48.38	0.0	—0 34.05
14	22.8— 0.8	46.70	....	.....
14–15	9.3—16.6	46.38	10.8	—0 32.47
15	....	.....	17.0	—0 32.52
15	23.5— 1.3	46.63	2.0	—0 32.95
15	10.74	45.60	11.0	—0 31.94
15	....	.....	13.0	—0 32.85
16	15.46	47.52	17.2	—0 33.97
16	....	.....	23.8	—0 33.41
16	0.7— 1.7	46.85	2.3	—0 33.51
18	....	.....	0.9	—0 34.18
18	2.9— 3.8	46.62	3.9	—0 33.69
19	4.1— 6.4	48.10	3.5	—0 34.50
19	....	.....	7.2	—0 33.94
19–20	10.2—16.4	47.50	10.6	—0 33.29
19	....	.....	12.8	—0 33.65
20	....	.....	16.7	—0 34.03
20	4.9— 6.4	45.08	4.3	—0 32.51
20	....	.....	7.4	—0 31.96
20–21	10.0—15.6	46.92	10.8	—0 32.67
20	....	.....	12.6	—0 33.74
21	....	.....	14.9	—0 33.21
21	6.0— 7.5	46.32	....	.....
21	10.80	45.45	10.8	—0 32.08
21	....	.....	13.0	—0 32.09
22	15.38	46.40	16.5	—0 33.19
22	6.1— 8.2	46.26	....	.....
22	10.80	45.38	10.7	—0 32.39
22	....	.....	13.6	—0 33.43
23	15.94	49.00	17.1	—0 34.23
23	....	.....	7.4	—0 33.36
24	9.78	46.13	10.6	—0 32.41
24	....	.....	12.8	—0 32.89
25	16.00	48.22	15.1	—0 33.56
27–28	10.8—18.1	47.75	12.3	—0 33.59
27	....	.....	13.9	—0 33.54
28	....	.....	18.6	—0 32.41
28	12.27	46.02	11.7	—0 32.54
28	....	.....	13.9	—0 33.16
29	16.55	47.38	17.7	—0 33.46
SIX-INCH TRANSIT CIRCLE—Continued.				
		38° 55′		
1902	h h	″	h	′ ″
Oct. 29	11.74	44.90	12.0	—0 31.91
29	....	.....	14.0	—0 32.01
30	16.27	46.36	16.9	—0 32.56
30	12.20	46.48	11.9	—0 32.95
30	....	.....	13.7	—0 32.57
31	15.64	47.64	16.7	—0 33.62
31	11.65 ...	45.24	12.6	—0 32.23
Nov. 1	16.45	46.45	17.6	—0 33.08
2	13.16	45.32	12.3	—0 31.45
2	....	.....	14.4	—0 32.09
3	16.79	46.85	19.4	—0 33.22
3	12.08	46.32	12.0	—0 32.38
3	....	.....	14.4	—0 32.94
4	17.66	47.48	18.8	—0 33.56
7	....	.....	19.4	—0 32.71
7	20.1—21.4	46.78	21.8	—0 32.23
9	22.0—22.6	47.70	21.3	—0 33.25
9	....	.....	0.9	—0 32.51
9	13.24	45.05	12.3	—0 32.29
9	....	.....	14.4	—0 31.42
10	16.70	47.32	18.3	—0 33.65
12	....	.....	23.3	—0 33.01
12	0.4— 2.2	46.48	2.6	—0 32.27
12	....	.....	12.1	—0 31.18
12	13.46	44.80	14.8	—0 31.78
13	16.20	46.12	18.1	—0 32.16
13	1.6— 3.0	44.81	1.5	—0 32.05
13	....	.....	3.5	—0 31.78
14	....	.....	23.4	—0 31.85
14	2.1— 3.5	45.75	4.2	—0 31.75
15	2.3— 5.5	46.33	2.2	—0 32.87
15	....	.....	6.6	—0 32.93
16	....	.....	3.7	—0 32.01
16	4.7— 6.4	43.86	7.4	—0 30.44
18–19	13.8—17.6	46.11	15.3	—0 32.61
19	....	.....	18.2	—0 33.16
19	6.0— 9.1	44.22	5.4	—0 31.51
19	....	.....	9.9	—0 31.36
19	....	.....	12.5	—0 31.38
19–20	12.9—17.9	45.28	15.4	—0 31.17
20	....	.....	18.6	—0 31.80
20	13.24	45.32	12.5	—0 30.98

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
SIX-INCH TRANSIT CIRCLE—Continued.				
		38° 55′		
1902	h h	″	h	′ ″
Nov. 20	....	.....	15.4	−0 31.83
21	17.32	47.32	18.4	−0 32.77
21	8.1—10.8	45.25	7.4	−0 32.01
21	....	.....	11.9	−0 31.06
22	10.4—12.9	44.76	12.2	−0 31.29
27	....	.....	13.0	−0 31.25
27–28	13.3—19.0	45.32	16.0	−0 31.32
28	....	.....	19.5	−0 31.14
28–29	12.8—17.9	44.42	14.4	−0 31.00
28	....	.....	16.1	−0 31.02
29	....	.....	18.6	−0 31.39
30	....	.....	13.2	−0 32.85
30– 1	13.3—18.8	45.96	16.2	−0 32.94
Dec. 1	....	.....	19.8	−0 33.34
1	14.01	45.62	14.3	−0 31.37
1	....	.....	15.8	−0 31.94
2	17.98	46.37	19.3	−0 32.07
3	....	.....	18.6	−0 31.48
5	20.4—21.7	48.47	20.1	−0 34.45
5	....	.....	22.4	−0 34.00
7	14.55	45.35	14.3	−0 31.94
7	....	.....	16.5	−0 32.39
8	19.37	46.65	20.4	−0 33.17
8	....	.....	23.2	−0 33.21
8	23.3— 4.3	46.04	3.5	−0 32.39
8	....	.....	13.9	−0 32.36
8– 9	14.1—19.5	46.70	16.8	−0 32.76
9	....	.....	19.9	−0 32.33
9	23.9— 4.3	46.48	23.5	−0 32.81
9	....	.....	5.2	−0 33.12
9	14.62	43.12	13.7	−0 29.61
9	....	.....	16.7	−0 30.04
10	18.98	45.63	19.7	−0 31.44
10	1.0— 1.9	44.40	2.1	−0 31.17
14	3.4— 6.7	42.61	2.7	−0 29.93
14	....	.....	7.6	−0 28.28
17	7.9—12.3	41.25	7.7	−0 28.15
17	....	.....	12.6	−0 27.44
17–18	14.4—20.8	41.63	15.2	−0 27.89
17	....	.....	17.4	−0 27.32
18	....	.....	20.9	−0 27.80
18	....	.....	7.5	−0 27.68
SIX-INCH TRANSIT CIRCLE—Continued.				
		38° 55′		
1902	h h	″	h	′ ″
Dec. 18	7.9—13.0	40.44	13.2	−0 27.63
18	....	.....	14.5	−0 27.65
18–19	15.1—20.8	42.03	17.4	−0 27.43
19	....	.....	20.9	−0 27.60
21	8.6—13.0	42.02	10.0	−0 28.56
21	....	.....	13.8	−0 28.76
22	11.0—13.9	40.40	10.8	−0 27.88
22	....	.....	14.4	−0 26.60
23	0.55	41.80	23.4	−0 28.03
23	3.75	40.54	5.2	−0 26.94
23	13.6—16.5	40.58	....	......
25–26	15.1—21.2	41.85	16.3	−0 27.79
25	....	.....	17.1	−0 26.67
26	....	.....	21.6	−0 27.55
26	0.0— 4.0	42.11	1.2	−0 27.54
26	....	.....	4.8	−0 28.69
27	3.1— 4.0	40.62	0.3	−0 26.95
29	16.35	39.02	17.3	−0 24.79
30	19.29	40.02	20.3	−0 25.57
1903				
Jan. 6	0.0— 1.3	39.52	23.4	−0 26.10
6	....	.....	2.1	−0 25.66
8	17.00	37.12	16.3	−0 23.17
8	....	.....	18.7	−0 23.01
9	21.89	36.14	23.3	−0 22.36
9	3.1— 4.3	37.22	2.4	−0 23.22
9	....	.....	5.2	−0 23.28
9–10	16.1—21.7	38.18	17.1	−0 24.42
9	....	.....	19.1	−0 24.43
10	....	.....	22.0	−0 24.63
10	3.4— 6.6	37.70	5.8	−0 24.54
11	....	.....	4.5	−0 24.66
11	5.3— 7.7	38.32	8.3	−0 24.81
11	....	.....	16.0	−0 26.55
11–12	16.1—21.7	39.51	19.2	−0 25.91
12	....	.....	21.9	−0 26.78
12	6.0— 9.1	41.05	5.2	−0 27.76
12–13	17.1—22.7	41.71	18.3	−0 28.75
13	....	.....	23.0	−0 27.26
13	7.6— 9.3	40.53	10.3	−0 26.99
14	7.9—10.5	40.87	11.1	−0 27.37
14	....	.....	16.4	−0 26.88

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
		38° 55′		
1903	h h	″	h	′ ″
Jan. 14–15	17.8—21.7	39.66	19.4	−0 26.59
15	....	.....	22.1	−0 26.49
15	9.9—13.1	39.88	9.5	−0 26.24
15	....	.....	13.6	−0 26.42
15	....	.....	16.4	−0 26.23
15	18.49	40.20	19.5	−0 26.34
16	21.82	41.40	23.1	−0 28.18
17	9.9—13.9	38.92	9.7	−0 26.12
17	....	.....	14.7	−0 25.80
18	9.7—10.4	41.75	11.1	−0 28.16
18	12.0—13.7	39.90	14.5	−0 25.10
18–19	17.0—23.1	39.19	19.6	−0 26.24
19	....	.....	22.0	−0 26.27
20	18.37	40.72	18.1	−0 26.79
20	....	.....	19.5	−0 27.30
21	21.83	42.04	22.3	−0 28.23
30	5.7— 6.4	36.80	4.9	−0 23.35
30	....	.....	8.0	−0 22.56
30	17.78	34.47	18.4	−0 20.91
30	....	.....	20.2	−0 20.88
31	0.10	35.20	0.6	−0 22.04
Feb. 4	....	.....	1.2	−0 29.40
4	1.8— 2.7	42.98	2.9	−0 29.77
5	....	.....	2.5	−0 27.41
5	2.9— 4.0	39.88	4.0	−0 27.09
6	4.1— 6.4	40.58	3.3	−0 26.46
6	....	.....	7.9	−0 26.53
8	5.7— 7.8	41.19	5.0	−0 26.86
8	....	.....	8.6	−0 27.26
8– 9	17.5— 1.1	39.74	18.0	−0 26.42
8	....	.....	21.0	−0 26.94
9	....	.....	1.3	−0 27.13
9	5.98	40.02	5.0	−0 27.39
9	7.60	39.30	8.2	−0 26.44
9–10	17.5— 2.1	40.02	18.8	−0 25.80
9	....	.....	21.2	−0 26.44
10	....	.....	2.3	−0 26.64
10	5.5— 8.9	41.35	5.0	−0 27.12
10	....	.....	9.6	−0 27.25
11	9.4—10.3	41.32	8.8	−0 27.59
11	....	.....	11.0	−0 27.79
11	19.14	42.16	18.3	−0 27.80
		38° 55′		
1903	h h	″	h	′ ″
Feb. 12	0.06	43.42	1.3	−0 29.51
12	....	.....	9.3	−0 29.32
12	9.6—11.2	42.26	11.3	−0 28.91
12	19.00	42.25	18.2	−0 28.16
12	....	.....	21.3	−0 28.07
13	0.98	43.90	2.2	−0 29.50
13	9.6—13.4	41.77	10.7	−0 27.65
13	....	.....	14.2	−0 27.33
17–18	19.4— 3.0	40.85	21.6	−0 26.74
18	....	.....	2.5	−0 26.48
18	19.36	44.72	19.2	−0 30.73
18	....	.....	21.6	−0 29.15
19	0.48	42.72	2.0	−0 29.39
19	... .	.....	18.8	−0 27.69
19–20	19.6— 1.9	42.47	21.7	−0 27.11
20	....	.....	1.5	−0 29.08
23	19.36	42.40	20.0	−0 28.11
23	....	.....	21.9	−0 28.06
24	1.04	43.70	2.2	−0 29.96
24–25	18.9— 1.1	41.62	19.7	−0 27.57
24	....	.....	21.9	−0 27.66
25	....	.....	1.4	−0 27.74
25	....	.....	4.8	−0 27.65
25	5.7— 7.1	40.92	7.9	−0 27.68
25	19.90	38.88	19.2	−0 25.46
25	....	.....	22.1	−0 25.07
26	0.95	40.00	2.0	−0 27.24
26	5.7— 6.4	41.62	5.3	−0 28.08
26	....	.....	7.7	−0 28.14
Mar. 2	20.05	41.77	19.4	−0 27.39
2	....	.....	21.5	−0 27.37
3	1.58	42.70	2.7	−0 28.47
11	9.4—10.8	41.76	11.1	−0 27.97
11–12	19.6— 3.0	41.13	20.5	−0 27.97
11	....	.....	22.9	−0 27.81
12	... .	.....	3.5	−0 27.87
12	....	.....	8.5	−0 28.36
12	9.2—11.4	41.45	11.7	−0 28.01
12	19.90	41.68	20.3	−0 26.61
12	....	.....	23.2	−0 27.18
13	2.62	42.28	3.4	−0 27.98
13	....	.....	10.8	−0 28.76

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
SIX-INCH TRANSIT CIRCLE—Continued.				
		38° 55′		
1903	h h	″	h	′ ″
Mar. 13	11.5—13.7	43.28	14.3	—0 28.86
13	20.72	41.03	20.9	—0 27.46
13	....	.....	23.3	—0 27.66
14	1.94	42.13	2.8	—0 28.47
14	12.0—13.7	42.68	11.0	—0 28.78
14	....	.....	14.9	—0 28.85
17	12.0—15.8	41.71	11.6	—0 27.40
17	....	.....	16.5	—0 27.41
17	20.50	40.90	21.8	—0 27.19
17	....	.....	23.2	—0 27.31
18	1.60	43.00	2.4	—0 29.58
24–25	20.3— 3.1	42.45	21.4	—0 28.42
24	....	.....	23.6	—0 28.17
25	....	.....	2.7	—0 28.32
25	....	.....	19.5	—0 28.58
25–26	19.6— 3.9	42.01	23.9	—0 27.53
26	....	.....	4.2	—0 28.48
26	....	.....	19.5	—0 28.18
26–27	19.6— 4.6	42.06	0.0	—0 27.42
27	....	.....	4.8	—0 29.25
31– 1	20.3— 5.4	40.45	22.4	—0 27.00
31	....	.....	0.4	—0 28.12
Apr. 1	....	.....	5.5	—0 26.85
1	....	.....	21.3	—0 26.74
4	6.3— 7.8	43.65	6.1	—0 30.56
4	....	.....	8.5	—0 29.18
5	6.7— 9.6	43.90	6.3	—0 29.50
5	....	.....	10.3	—0 29.19
5– 6	21.1— 3.9	40.74	21.8	—0 27.19
5	....	.....	0.5	—0 27.56
6	....	.....	4.4	—0 27.90
6	....	.....	8.0	—0 28.34
6	8.5— 9.8	42.07	10.0	—0 28.63
8	....	.....	9.8	—0 30.91
8	10.4—11.2	44.20	11.7	—0 29.80
8	....	.....	20.5	—0 28.95
8– 9	20.7— 5.6	42.64	0.7	—0 30.00
9	....	.....	6.1	—0 29.03
9	11.3—13.0	42.55	13.5	—0 28.89
9	....	.....	20.2	—0 28.07
9–10	20.7— 5.5	42.76	0.7	—0 28.37
10	....	.....	6.1	—0 28.04
10	....	.....	10.7	—0 27.97
SIX-INCH TRANSIT CIRCLE—Continued.				
		38° 55′		
1903	h h	″	h	″
Apr. 10	11.5—13.7	42.28	14.3	—0 28.27
16–17	21.1— 5.6	41.59	22.2	—0 27.25
16	....	.....	0.9	—0 27.34
17	....	.....	6.0	—0 27.22
17	17.1—19.2	39.69	16.5	—0 26.20
17	....	.....	19.9	—0 24.93
17	21.40	38.25	22.2	—0 24.72
17	....	.....	1.2	—0 25.31
18	4.83	40.03	4.2	—0 26.15
18	....	.....	18.5	—0 26.37
18	19.1—20.2	39.62	20.4	—0 25.11
19	....	.....	19.3	—0 26.55
19	19.9—21.7	41.08	21.4	—0 26.07
20–21	20.7— 5.9	39.50	21.4	—0 25.47
20	....	.....	1.3	—0 26.13
21	....	.....	6.0	—0 26.61
21	....	.....	22.3	—0 25.75
21	....	.....	1.7	—0 25.79
22	....	.....	21.5	—0 27.21
22	....	.....	1.5	—0 26.46
23–24	20.7— 6.8	40.61	21.9	—0 25.54
23	....	.....	1.6	—0 25.45
24	....	.....	7.1	—0 25.59
26	11.5—13.1	38.65	10.9	—0 25.22
26	....	.....	13.8	—0 25.52
26	22.02	38.38	22.1	—0 25.30
26	....	.....	1.8	—0 26.00
27	5.13	40.08	5.9	—0 26.42
27	11.5—12.3	38.48	11.1	—0 25.01
27	....	.....	13.0	—0 24.73
27	22.16	38.32	22.3	—0 23.89
27	....	.....	1.9	—0 24.67
28	5.07	40.60	....	. .....
28	11.5—12.8	41.08	10.8	—0 26.28
28	....	.....	14.0	—0 26.32
28	22.03	38.60	22.4	—0 24.76
29	5.13	39.90	....	. .....
29	11.5—12.3	39.88	10.8	—0 26.96
29	....	.....	13.0	—0 26.42
29	22.32	37.92	22.3	—0 24.89
29	....	.....	2.0	—0 25.33
30	5.13	41.88	6.1	—0 28.43
30	22.33	41.10	22.3	—0 26.86

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.	Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
		38° 55′					38° 55′		
1903	h h	″	h	′ ″	1903	h h	″	h	′ ″
Apr. 30	....	.....	1.8	—0 27.11	May 12	....	.....	2.8	—0 24.11
May 1	5.68	39.88	7.2	—0 25.11	13	....	.....	6.9	—0 25.01
1– 2	22.9— 5.6	38.94	0.3	—0 25.14	13	....	.....	16.9	—0 26.04
1	....	.....	2.2	—0 24.69	13	15.7—18.3	40.00	18.8	—0 25.57
2	....	.....	7.8	—0 24.80	14	....	.....	16.6	—0 25.92
3	....	.....	7.3	—0 24.94	14	17.9—18.9	38.90	19.5	—0 25.83
3– 4	22.0— 5.9	39.02	22.5	—0 25.68	14	....	.....	23.7	—0 25.37
3	....	.....	2.3	—0 25.50	14–15	0.0— 7.6	39.88	3.1	—0 25.20
4	....	.....	6.3	—0 24.69	15	....	.....	8.1	—0 25.53
4	....	.....	8.5	—0 24.61	15	17.3—20.0	40.25	17.9	—0 26.12
4	9.1—12.3	38.30	12.9	—0 24.44	15	....	.....	20.6	—0 25.96
4– 5	22.0— 6.7	38.82	23.2	—0 24.53	16	....	.....	18.5	—0 25.81
4	....	.....	2.5	—0 24.92	16	19.8—20.4	39.47	21.4	—0 25.32
5	....	.....	6.8	—0 24.86	17	20.4—22.1	39.95	22.3	—0 25.51
5	10.32	38.75	9.5	—0 24.67	18	....	.....	20.8	—0 25.71
5	12.01	39.65	13.6	—0 25.45	18–19	21.4— 7.7	39.34	22.7	—0 25.12
5– 6	22.9— 5.6	37.77	23.8	—0 23.80	18	....	.....	3.8	—0 24.74
5	....	.....	2.4	—0 23.10	19	....	.....	7.3	—0 25.81
6	....	.....	6.3	—0 23.95	19	23.54	39.02	21.7	—0 25.39
6	11.0—13.0	38.77	10.3	—0 24.59	19	....	.....	3.5	—0 22.75
6	....	.....	14.0	—0 25.27	20	5.21	37.30	6.9	—0 23.30
6	....	.....	22.3	—0 24.56	20	23.34	38.20	22.0	—0 24.91
6– 7	22.6— 5.9	37.91	2.3	—0 24.22	20	....	.....	3.4	—0 25.70
7	....	.....	6.0	—0 25.06	21	6.60	40.16	7.8	—0 26.46
7	....	.....	11.1	—0 24.04	22	....	.....	10.9	—0 24.96
7	11.5—13.0	37.38	13.1	—0 23.32	28	11.5—12.3	39.45	11.4	—0 26.04
7– 8	21.6— 5.9	38.69	22.8	—0 24.12	28	....	.....	14.8	—0 26.37
7	....	.....	2.4	—0 24.19	June 1	9.6—10.3	37.73	10.5	—0 24.65
8	....	.....	6.4	—0 25.15	2	10.4—13.1	38.86	9.9	—0 24.36
8	....	.....	10.7	—0 24.41	2	....	....	14.0	—0 24.85
8	11.3—13.7	38.56	14.3	—0 23.88	2– 3	1.0— 7.8	37.92	1.5	—0 24.18
8– 9	22.8— 5.9	38.09	23.8	—0 23.83	2	....	.....	4.4	—0 22.98
8	....	.....	2.6	—0 23.07	3	....	.....	7.0	—0 23.96
9	....	.....	6.2	—0 23.82	3	11.3—13.1	37.54	12.8	—0 24.52
9	11.7—14.3	38.41	11.3	—0 24.43	3	....	.....	15.3	—0 24.97
9	....	.....	14.8	—0 24.97	3– 4	0.0— 7.9	38.27	0.5	—0 24.23
10	14.6—15.4	39.15	14.1	—0 25.17	3	....	.....	4.3	—0 23.81
10	....	.....	16.1	—0 24.85	4	....	.....	7.1	—0 24.63
11	....	.....	14.6	—0 24.94	4	....	.....	11.3	—0 24.97
11	15.1—18.0	37.68	18.2	—0 24.38	4	11.7—13.1	38.66	13.5	—0 25.36
12	15.7—18.0	39.46	15.2	—0 25.49	8	....	.....	15.2	—0 25.77
12	....	.....	18.6	—0 25.28	8	15.9—18.2	39.55	17.9	—0 25.64
12–13	22.9— 6.1	38.96	0.4	—0 24.46	9	16.8—17.6	40.85	16.3	—0 26.22

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.	Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
SIX-INCH TRANSIT CIRCLE—Continued.					SIX-INCH TRANSIT CIRCLE—Continued.				
		38° 55′					38° 55′		
1903	h h	″	h	′ ″	1903	h h	″	h	′ ″
June 9	....	.....	18.3	—0 26.00	July 6	....	.....	17.9	—0 25.43
10	17.3—21.4	40.22	20.1	—0 26.48	6	....	.....	3.3	—0 25.54
11	....	.....	1.6	—0 25.98	6–7	3.7—10.3	39.52	6.6	—0 25.73
11–12	1.8—9.3	40.34	4.8	—0 25.40	7	....	.....	10.6	—0 25.59
12	....	.....	9.1	—0 25.25	7	15.2—18.6	39.93	14.3	—0 25.48
14	....	.....	19.7	—0 24.27	7	....	.....	19.9	—0 25.56
14	20.2—22.1	38.26	22.5	—0 23.71	7	4.33	38.33	4.2	—0 24.67
14	....	.....	1.5	—0 23.19	7	....	.....	6.8	—0 24.93
14–15	1.8—10.3	37.16	5.1	—0 23.29	8	10.22	39.86	10.9	—0 25.95
15	....	.....	9.8	—0 23.53	8	....	.....	14.6	—0 26.07
15	22.0—22.6	37.62	21.4	—0 23.53	8	15.2—19.6	40.46	20.2	—0 26.86
15	....	.....	23.7	—0 23.46	8–9	3.7—10.3	39.75	4.3	—0 26.36
15	....	.....	2.3	—0 23.93	8	....	.....	6.6	—0 25.86
15–16	2.9—10.1	38.29	5.1	—0 24.14	9	....	.....	10.7	—0 25.58
16	....	.....	10.3	—0 24.22	9	... .	.....	16.6	—0 26.40
17	23.1—0.2	38.47	22.7	—0 25.93	9	17.0—19.8	39.70	20.1	—0 26.12
17	....	.....	0.8	—0 23.92	9	....	.....	3.4	—0 25.89
17	....	.....	1.6	—0 23.94	9–10	3.8—11.2	40.21	6.8	—0 25.81
17–18	1.8—9.7	38.10	5.2	—0 24.84	10	....	.....	10.7	—0 26.53
18	....	.....	9.5	—0 24.68	10	....	.....	19.5	—0 26.57
18	3.55	38.02	2.2	—0 23.79	10	19.9—21.4	40.65	21.7	—0 26.36
18	....	.....	5.4	—0 23.98	10–11	3.8—10.5	40.03	4.2	—0 25.70
19	9.13	38.93	10.7	—0 24.77	10	....	.....	7.0	—0 25.90
21	....	.....	2.5	—0 24.39	11	20.2—21.6	41.08	20.0	—0 27.42
21–22	2.9—7.7	38.42	5.6	—0 24.85	11	....	.....	22.1	—0 27.00
22	....	.....	10.9	—0 25.23	13	20.4—23.1	38.61	21.5	—0 25.30
29	....	.....	16.4	—0 26.09	13	....	.....	23.4	—0 25.07
29	17.0—18.2	40.25	18.4	—0 25.96	13–14	3.7—11.2	38.98	4.3	—0 25.54
29–30	4.5—10.1	39.99	6.3	—0 25.70	13	....	.....	7.2	—0 25.11
30	....	.....	10.9	—0 26.22	14	....	.....	11.4	—0 24.98
30	17.0—18.2	40.62	16.6	—0 26.77	14	23.1—0.1	39.00	22.5	—0 26.27
30	....	.....	19.9	—0 27.15	14	....	.....	1.6	—0 25.19
30–1	2.0—13.4	39.77	2.7	—0 25.97	14	5.09	37.70	5.0	—0 24.88
30	....	.....	6.2	—0 25.60	14	....	.....	7.0	—0 25.26
July 1	4.34 ...	39.20	8.9	—0 25.95	15	10.68	38.82	11.4	—0 25.59
1	....	.....	13.6	—0 25.99	15	23.1—1.0	38.13	22.8	—0 25.97
1	....	.....	3.4	—0 26.03	15	....	.....	1.9	—0 23.43
1	....	.....	6.2	—0 26.62	15	4.97	36.92	5.0	—0 23.78
2	9.20	41.02	10.3	—0 27.15	15	....	.....	7.2	—0 24.12
2	....	.....	3.2	—0 25.60	16	11.05	37.95	11.6	—0 24.59
2–3	3.7—10.3	39.99	6.3	—0 24.80	16	23.2—1.7	38.55	0.0	—0 24.71
3	....	.....	10.7	—0 26.05	16	....	.....	1.9	—0 24.76
6	15.2—18.0	39.61	16.4	—0 25.81	16	....	.....	4.0	—0 24.41

TABLE VIII.—*The Equator Points Derived from Observations of Ephemeris Stars and the Zenith Point Corrections from Nadir Observations*—Continued.

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
		38° 55′		
1903	h h	″	h	′ ″
July 16–17	4.5—11.2	38.78	7.3	—0 24.51
17	....	.....	11.6	—0 25.00
19–20	3.7—11.8	38.87	4.2	—0 25.56
19	....	.....	7.3	—0 25.61
20	....	.....	11.5	—0 25.94
20	....	.....	4.1	—0 25.67
20–21	4.5—11.8	40.05	7.4	—0 25.69
21	....	.....	11.5	—0 25.59
22	5.44	39.25	5.6	—0 25.71
22	....	.....	7.5	—0 25.71
23	10.66	40.42	11.4	—0 26.15
23	....	.....	4.2	—0 25.42
23–24	4.5—11.8	39.35	7.7	—0 24.85
24	....	.....	11.4	—0 24.47
24	....	.....	16.6	—0 24.79
24	17.1—18.2	39.16	18.6	—0 25.25
24	5.07	38.24	4.1	—0 24.18
24	....	.....	7.7	—0 24.22
25	10.67	39.40	11.9	—0 25.17
25	17.0—18.5	40.34	17.8	—0 26.21
25	....	.....	19.8	—0 26.44
27	4.96	38.85	5.6	—0 24.92
27	....	.....	8.0	—0 25.24
28	10.96	39.68	12.7	—0 25.65
29–30	4.8—11.8	39.46	5.7	—0 26.27
29	....	.....	8.0	—0 26.26
30	....	.....	13.1	—0 27.33
Aug. 4– 5	5.8—14.2	39.08	7.1	—0 24.89
4	....	.....	8.6	—0 24.41
5	....	.....	13.6	—0 24.63
5	18.4—19.9	39.25	18.6	—0 25.34
5	....	.....	20.0	—0 25.09
6	6.38	41.08	6.8	—0 26.01
6	....	.....	8.0	—0 25.49
7	11.74	39.92	12.6	—0 25.25
7	....	.....	19.6	—0 24.30
7	20.2—21.4	38.56	21.8	—0 23.64
9	20.2—23.7	39.89	19.5	—0 25.61
9	....	.....	0.5	—0 25.39
9	6.57	39.35	6.4	—0 25.38
9	....	.....	8.7	—0 25.85
10	13.16	40.18	13.2	—0 26.08
11	23.1— 1.3	39.31	22.4	—0 25.12
11	....	.....	2.1	—0 24.21

SIX-INCH TRANSIT CIRCLE—Continued.

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Correction.
		38° 55′		
1903	h h	″	h	′ ″
Aug. 11	5.98	38.02	6.1	—0 24.39
11	....	.....	9.0	—0 23.91
12	12.17	37.35	12.5	—0 23.79
12	23.1— 0.0	37.83	0.5	—0 23.29
16	5.55	38.73	6.2	—0 24.66
16	....	.....	8.6	—0 24.04
17	14.52	37.85	15.0	—0 24.25
20	20.2—20.8	37.78	19.9	—0 23.81
20	....	.....	21.5	—0 23.32
20–21	6.1—13.4	37.78	7.4	—0 23.90
20	....	.....	9.5	—0 23.58
21	....	.....	12.6	—0 23.71
21	....	.....	18.4	—0 24.38
21	20.2—20.8	38.60	21.5	—0 24.15
21	6.28	37.76	5.5	—0 23.51
21	....	.....	9.7	—0 24.36
22	12.72	39.45	13.9	—0 25.05
22	....	.....	18.6	—0 25.31
22	20.2—20.8	39.80	21.7	—0 25.36
23	7.48	37.35	8.2	—0 23.05
23	....	.....	9.9	—0 22.97
24	14.00	38.40	14.4	—0 24.16
24	....	.....	18.3	—0 24.51
24	20.2—20.8	39.20	21.5	—0 25.05
24	....	.....	4.6	—0 25.21
24–25	4.8—14.2	39.51	9.9	—0 25.04
25	....	.....	14.5	—0 25.68
25	....	.....	19.7	—0 26.04
25	20.2—21.2	40.05	21.6	—0 25.30
Sept. 1	18.3—20.8	38.44	18.2	—0 24.58
1	....	.....	21.2	—0 24.72
[illegible]	....	.....	18.1	—0 24.43
2	19.5—20.8	38.57	21.2	—0 24.47
2	7.34	37.52	7.2	—0 23.73
2	....	.....	10.3	—0 24.20
3	13.44	37.56	14.4	—0 24.91
3	....	.....	19.2	—0 24.37
3	20.1—20.8	37.75	21.2	—0 24.21
3– 4	6.6—14.8	37.96	8.1	—0 23.48
3	....	.....	10.4	—0 23.69
4	....	.....	15.0	—0 24.29
4	....	.....	18.3	—0 24.77
4	20.2—21.9	38.74	21.0	—0 25.11

TABLE IX.—*Number of Observations Made by Each Observer.*

Observer.	1900		1901		1902		1903		Total.	
	Determining Stars.	Objects Determined.	Determining Stars.	Objects Determined.	Determining Stars.	Objects Determined.	Determining Stars.	Objects Determined.	Determining Stars.	Objects Determined.
Skinner	52	15	25	6	212	71	...	...	289	92
Updegraff	22	5	68	0	175	0	...	...	265	5
Eichelberger	542	118	...	...	...	...	...	...	542	118
Harshman	152	49	131	37	...	...	...	...	283	86
King	149	4	46	8	...	...	...	...	195	12
Brown	566	144	580	145	663	201	611	155	2, 420	645
Boeger	424	98	631	173	96	29	...	...	1, 151	300
Lawton	230	56	120	32	...	...	...	...	350	88
Hammond	201	55	77	23	169	0	...	...	447	78
Littell	...	...	247	71	590	166	489	139	1, 326	376
Yowell	...	...	248	69	...	...	...	...	248	69
Rice	...	...	...	...	357	98	401	119	758	217
Total	2, 338	544	2, 173	564	2, 262	565	1, 501	413	8, 274	2, 086
Grand total									10, 360	

SIX-INCH TRANSIT CIRCLE.

OBSERVATIONS AND REDUCTIONS.

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 1, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Herculis..........	11	26 33.43	+ 0.67	−39.20	342 43 59.05	29.135	− 19.2	22.8	16 25	.....	.. ..	....
2	α^1 Herculis..........	11	10 43.23	+ 0.89	−39.20	335 32 4.78	28.980	− 27.9	23.1	17 10	.....	.. ..	....
3	Mercury C, C....	11	22 19.46	+ 1.96	**−39.25**	298 47 57.60	27.714	−1 51.2	**23.0**	17 21 42.17	− 0.04	−22 15 54.0	....
4	α Ophiuchi..........	11	30 55.51	+ 0.94	−39.26	333 39 59.35	28.686	− 30.3	23.2	17 30	.....	.. ..	....
5	α Lyræ..........	11	34 11.49	0.00	−39.34	359 44 2.55	26.451	− 0.2	21.3	18 33	.....	.. ..	....
	January 2, Br.												
6	Sun I, S..........	11	51 12.17	+ 1.93	**−39.27**	297 52 13.05	28.035	−1 54.5	**23.0**	18 50 34.83	+71.03	−23 11 32.6	....
7	Sun II, N..........	11	53 34.24	+ 1.93	**−39.27**	298 24 17.05	29.132	−1 51.9	**23.0**	18 52 56.90	−71.04	−22 38 55.0	....
8	γ Aquilæ..........	11	42 8.35	+ 0.97	−39.30	331 23 57.55	29.463	− 33.0	22.4	19 41	.....	.. ..	....
9	α Aquilæ..........	6	46 32.27	+ 1.01	−39.30	329 38 6.25	29.432	− 35.4	23.2	19 45	.....	.. ..	....
10	Venus I, S..........	6	46 38.49	+ 1.76	**−39.30**	301 18 3.32	28.152	−1 38.9	**23.0**	20 46 0.95	+ 0.47	−19 45 23.5	....
11	Venus II, N..........	5	46 39.34	+ 1.76	**−39.30**	301 18 3.32	28.605	−1 38.9	**23.0**	20 46 1.80	− 0.38	−19 45 10.7	....
12	ζ Cygni..........	11	9 19.48	+ 0.35	−39.34	350 50 2.28	30.481	− 9.7	22.5	21 8	.....	.. ..	....
13	β Aquarii..........	11	26 55.68	+ 1.36	−39.25	315 2 7.25	28.348	−1 0.1	24.1	21 26	.....	.. ..	....
14	ε Pegasi..........	11	39 54.89	+ 0.95	−39.30	330 26 3.28	31.218	− 34.1	24.5	21 39	.....	.. ..	....
15	ε Piscium..........	11	58 34.73	+ 1.04	−39.42	328 24 2.10	27.336	− 37.3	22.6	0 57	.....	.. ..	....
16	β Andromedæ..........	11	4 48.44	+ 0.18	−39.37	356 7 59.95	27.264	− 4.1	23.0	1 4	.....	.. ..	....
17	α Ursæ Minoris....	8	24 48.26	−69.89	[−39.24]	49 47 58.28	27.201	+1 12.0	[25.2]	1 22	.....	.. ..	....
18	ο Piscium..........	11	40 46.67	+ 1.00	−39.47	329 42 7.48	27.456	− 35.5	23.9	1 40	.....	.. ..	....
19	β Tauri..........	11	20 40.14	+ 0.41	−39.55	349 33 57.10	26.984	− 11.1	23.1	5 20	.....	.. ..	....
20	δ Orionis..........	11	27 34.60	+ 1.22	−39.59	320 40 8.35	28.294	− 49.5	23.7	5 26	.....	.. ..	....
21	Neptune C, C....	11	39 45.76	+ 0.62	**−39.57**	343 6 5.78	28.000	− 18.4	**23.7**	5 39 6.81	.....	+22 3 53.9	....
22	α Orionis..........	11	50 26.50	+ 1.02	39.56	328 26 10.10	27.181	− 37.2	24.3	5 49	.....	.. ..	....
23	ν Orionis..........	11	2 33.10	+ 0.83	−39.57	335 48 1.42	30.316	− 27.2	23.8	6 1	.....	.. ..	....
24	θ Virginis..........	11	5 25.86	+ 1.34	39.89	316 2 6.20	28.704	− 59.0	22.5	13 4	.....	.. ..	....
25	α Ursæ Minoris S. P.	8	22 30.12	+71.37	[−42.88]	52 14 4.42	27.186	+1 19.0	[23.5]	1 22	.....	.. ..	....
26	ζ Virginis..........	11	30 15.32	+ 1.21	−39.87	320 58 9.52	26.604	− 49.6	22.7	13 29	.....	.. ..	....
27	η Bootis..........	11	50 35.15	+ 0.71	−39.87	339 56 9.78	27.578	− 22.3	23.0	13 49	.....	.. ..	....
	January 3, U.												
28	α Ursæ Minoris....	11	24 43.97	−67.15	[−38.74]	49 48 11.58	26.716	+1 12.6	[25.1]	1 22	.....	.. ..	....
29	ο Piscium..........	11	40 47.35	+ 0.97	[−40.13]	329 42 14.35	27.234	− 35.8	[24.2]	1 40	.....	.. ..	....
30	β Arietis..........	11	49 48.09	+ 0.66	[−40.30]	341 22 12.10	26.718	− 20.7	[25.3]	1 49	.....	.. ..	....
31	θ Virginis..........	11	5 26.48	+ 1.38	[−40.52]	316 2 19.38	28.331	−1 0.6	[23.6]	13 4	.....	.. ..	....
32	α Ursæ Minoris S. P.	8	22 24.46	+74.72	[−41.64]	52 14 5.90	27.037	+1 21.3	[23.3]	1 22	.....	.. ..	....
33	η Ursæ Majoris....	11	44 17.35	− 0.56	[−40.49]	10 50 5.48	27.925	+ 12.1	[22.9]	13 43	.....	.. ..	....
	January 3, La.												
34	δ Ophiuchi..........	11	9 45.61	+ 1.35	−40.60	317 36 0.12	29.220	− 57.4	23.4	16 9	.....	.. ..	....
35	α Scorpii..........	11	23 55.08	+ 1.99	−40.44	294 50 3.65	31.147	−2 14.9	22.8	16 23	.....	.. ..	....
36	ζ Ophiuchi..........	9	32 18.21	+ 1.53	−40.59	310 40 6.68	30.355	−1 12.9	24.5	16 31	.....	.. ..	....
37	α^1 Herculis..........	11	10 44.68	+ 0.86	−40.58	335 32 4.10	28.989	− 28.4	22.7	17 10	.....	.. ..	....
38	Mercury C, C....	11	33 51.55	+ 1.87	**−40.57**	298 22 4.55	28.030	−1 54.7	**23.6**	17 33 12.85	− 0.04	−22 41 41.9	....
	January 4, La.												
39	Sun I, S..........	11	0 2.51	+ 1.85	**−40.58**	298 3 52.32	28.538	−1 55.0	**24.0**	18 59 23.78	+70.86	−22 59 40.5	....
40	Sun II, N..........	11	2 24.22	+ 1.85	**−40.58**	298 35 55.28	29.530	−1 52.4	**24.0**	19 1 45.49	−70.85	−22 27 6.9	....
41	α Aquilæ..........	11	46 33.56	+ 1.00	−40.57	329 38 7.95	29.448	− 35.9	25.1	19 45	.....	.. ..	....
42	Venus I, C..........	5	56 49.44	+ 1.71	**−40.61**	301 58 8.58	27.989	−1 37.5	**24.5**	20 56 10.54	+ 0.52	−19 5 23.1	....
43	Venus II..........	6	56 50.37	+ 1.71	**−40.61**	... .	......	....	....	20 56 11.47	− 0.41	.. ..	....
44	β Aquarii..........	11	26 57.09	+ 1.36	−40.67	315 2 7.05	28.402	−1 0.8	24.8	21 26	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
1 16 29	29.67	16.6	16.0
17 37	29.655	21.9	20.3
18 38	29.62	23.9	22.4
2 18 54	29.615	24.0	23.0
19 53	29.575	25.8	24.3
20 51	29.55	27.7	25.8
21 14	29.55	28.5	26.1
21 42	29.54	29.1	26.7
0 52	29.57	23.8	23.4
1 45	29.60	22.9	23.0
5 15	29.675	25.5	26.5
6 6	29.675	25.1	25.5
13 14	29.79	22.5	23.0
13 56	29.81	23.0	23.7
3 1 12	30.03	26.2	26.0
2 0	30.04	26.0	25.5
13 30	30.22	17.5	16.9
16 12	30.265	18.2	17.2
17 15	30.29	22.2	21.7
17 37	30.29	23.8	23.1
4 19 2	30.25	28.0	27.0
19 50	30.245	29.2	28.7
20 46	30.24	30.8	30.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

6, 39.	Bisections at I, II.
7, 9, 33, 38, 40, 44.	Bisections at VI, VII.
8, 35.	Bisections at II, VI, VII.
10.	Bisections at I, VII.
11.	Bisections at II, VI.
17, 28.	Bisections at c_1, c_2, c_3, c_4, c_5.
21.	Bisections at I, VI, VII.
25, 32.	Bisections at c_5, c_4, c_3, c_2, c_1.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 6.7	....	+ 0.1	+ 6.8
6	+ 7.9	+16 18.8	...	+16 26.7
7	+ 7.9	−16 18.8	...	−16 10.9
10	+ 5.2	+ 6.4	...	+ 11.6
11	+ 5.2	− 6.4	0.0	− 1.2
21	+ 0.1	....	...	+ 0.1
38	+ 6.6	....	+ 0.1	+ 6.7
39	+ 7.9	+16 16.8	...	+16 24.7
40	+ 7.9	−16 16.8	...	−16 8.9
42	+ 5.2	....	+ 0.1	+ 5.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Pegasi	11	39 56.17	+ 0.96	−40.60	330 26 7.35	31.118	− 34.5	24.6	21 39	.....	.. ..	....
2	Moon I, S	11	56 20.63	+ 1.43	**−40.61**	312 38 8.25	27.401	−1 5.9	**24.8**	21 55 41.45	+68.96	− 8 20 16.3	....
3	α Aquarii..........	11	1 18.47	+ 1.22	−40.60	320 14 9.62	28.672	− 50.6	24.0	22 0	.....	.. ..	....
4	δ Orionis	11	27 35.59	+ 1.24	−40.60	320 40 8.10	28.380	− 50.6	25.0	5 26	.....	.. ..	....
5	ε Orionis	11	31 50.10	+ 1.26	−40.64	319 46 9.28	29.300	− 52.2	24.4	5 31	.....	.. ..	....
6	Neptune C, C....	11	39 33.03	+ 0.65	**−40.62**	343 6 7.90	27.819	− 18.7	**24.8**	5 38 53.06	.....	+22 3 49.5	....
7	α Orionis	11	50 27.55	+ 1.04	−40.62	328 26 9.45	27.260	− 37.9	25.4	5 49	.....	.. ..	....
8	ν Orionis	11	2 34.16	+ 0.85	−40.63	335 48 8.82	30.088	− 27.7	24.2	6 1	.....	.. ..	....
	January 4, B.												
9	δ Scorpii	11	55 4.36	+ 1.93	−40.87	298 44 9.78	26.714	−1 52.1	23.8	15 54	.....	.. ..	....
10	δ Ophiuchi	11	9 45.85	+ 1.38	−40.85	317 36 15.48	28.708	− 56.1	25.6	16 9	.....	.. ..	....
11	α Scorpii	11	23 55.42	+ 2.05	−40.82	294 52 7.38	26.736	−2 11.8	24.0	16 23	.....	.. ..	....
12	β Herculis.........	8	26 35.23	+ 0.67	−40.93	342 44 10.18	28.751	− 19.0	23.9	16 25	.....	.. ..	....
	January 5, B.												
13	Sun I, S	8	4 26.54	+ 1.85	**−40.94**	298 10 6.85	29.215	−1 51.5	**24.4**	19 3 47.45	+70.92	−22 53 3.6	....
14	Sun II, N.........	11	6 48.38	+ 1.85	**−40.94**	298 42 7.55	30.312	−1 49.1	**24.4**	19 6 9.29	−70.92	−22 20 29.5	....
15	Venus I, C.......	6	1 52.39	+ 1.71	**−40.99**	302 18 9.95	29.505	−1 33.7	**24.4**	21 1 13.11	+ 0.50	−18 44 34.6	....
16	Venus II	5	1 53.28	+ 1.71	**−40.99**	... .	......	....	....	21 1 14.00	− 0.39	.. ..	....
17	β Aquarii..........	11	26 57.42	+ 1.37	−41.01	315 2 11.82	28.159	− 59.1	24.4	21 26	.....	.. ..	....
18	ε Pegasi...........	11	39 56.52	+ 0.98	−40.97	330 26 9.85	30.971	− 33.5	25.0	21 39	.....	.. ..	....
19	α Aquarii..........	11	1 18.88	+ 1.25	−41.05	320 14 9.15	28.644	− 49.2	24.2	22 0	.....	.. ..	....
20	Moon I, S	11	52 22.99	+ 1.31	**−41.04**	318 36 14.58	28.128	− 52.0	**24.4**	22 51 43.26	+67.94	− 2 26 27.7	....
21	α Pegasi...........	11	0 27.39	+ 0.84	−41.05	335 42 14.65	28.632	− 26.6	24.5	22 59	.....	.. ..	....
	January 5, U.												
22	β Herculis.........	11	26 35.66	+ 0.64	−41.30	342 44 13.38	28.610	− 18.5	23.8	16 25	.....	.. ..	....
23	ζ Ophiuchi	11	32 19.09	+ 1.51	−41.40	310 40 7.25	30.220	−1 9.1	25.3	16 31	.....	.. ..	....
24	α Ophiuchi	11	30 57.65	+ 0.88	−41.27	333 40 15.98	28.080	− 29.3	24.4	17 30	.....	.. ..	....
	January 6, U.												
25	Sun I, N..........	11	8 50.33	+ 1.77	**−41.29**	298 50 23.60	27.640	−1 46.9	**24.6**	19 8 10.81	+70.77	−22 13 27.4	....
26	Sun II, S.........	11	11 11.88	+ 1.77	**−41.29**	298 18 22.72	26.510	−1 49.3	**24.6**	19 10 32.36	−70.78	−22 46 3.1	....
27	γ Cygni	5	19 18.88	− 0.03	−41.30	0 58 8.68	28.160	+ 1.1	24.5	20 18	.....	.. ..	....
28	ν Cygni	11	54 7.35	− 0.07	−41.25	1 48 7.68	29.800	+ 1.9	24.4	20 53	.....	.. ..	....
29	Venus I, C.......	11	6 54.15	+ 1.63	**−41.27**	302 40 9.15	27.920	−1 31.5	**24.6**	21 6 14.51	+ 0.42	−18 23 18.6	....
30	ζ Cygni	11	9 21.41	+ 0.34	−41.27	350 50 3.60	30.450	− 9.4	24.1	21 8	.....	.. ..	....
31	ε Pegasi	11	39 56.85	+ 0.92	−41.25	330 26 11.30	30.925	− 33.3	25.4	21 39	.....	.. ..	....
32	α Pegasi	11	0 27.65	+ 0.78	−41.26	335 42 9.18	28.810	− 26.6	24.3	22 59	.....	.. ..	....
33	θ Piscium	8	23 34.52	+ 1.01	−41.24	326 52 9.02	28.638	− 38.5	24.9	23 22	.....	.. ..	....
34	ι Piscium	10	35 29.23	+ 1.02	−41.20	326 8 13.12	26.980	− 39.6	24.5	23 34	.....	.. ..	....
35	Moon I, S	11	47 9.85	+ 1.09	**−41.25**	324 30 7.58	27.309	− 42.1	**24.6**	23 46 29.69	+67.50	+ 3 27 11.7	....
36	ω Piscium	11	54 51.60	+ 0.99	−41.27	327 20 8.75	30.315	− 37.8	25.0	23 54	.....	.. ..	....
37	γ Pegasi...........	11	8 46.48	+ 0.78	−41.27	335 40 7.42	28.112	− 26.7	24.7	0 8	.....	.. ..	....
	January 7, Br.												
38	α Andromedæ	7	3 54.77	+ 0.35	−41.26	349 34 11.42	28.910	− 10.8	24.0	0 3	.....	.. ..	....
39	ι Ceti	11	15 0.68	+ 1.33	−41.20	311 40 13.42	28.245	−1 5.9	25.1	0 14	.....	.. ..	....
40	Moon I, S	11	41 38.16	+ 0.90	**−41.23**	330 2 13.02	27.934	− 33.9	**24.6**	0 40 57.83	+67.62	+ 8 59 43.1	....
41	ε Piscium	11	58 26.55	+ 0.92	−41.17	328 24 14.22	26.938	− 36.2	24.9	0 57	.....	.. ..	....
42	β Andromedæ	11	4 50.32	+ 0.13	−41.27	356 8 10.15	26.946	− 3.9	24.5	1 4	.....	.. ..	....
43	η Piscium	11	26 49.74	+ 0.74	−41.26	335 52 11.30	28.257	− 26.4	24.3	1 26	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
4 21 43	30.24	33.2	32.0
22 3	30.24	33.2	32.0
5 24	30.21	25.4	25.0
6 5	30.20	25.4	24.6
16 1	30.16	25.4	25.2
16 30	30.17	28.5	27.5
5 19 7	30.12	37.0	37.1
21 4	30.105	42.8	42.3
21 42	30.11	44.0	43.6
22 23	30.11	44.0	44.9
23 4	30.11	43.8	45.1
16 48	30.23	42.5	43.4
17 30	30.23	44.2	44.9
6 19 11	30.215	46.9	46.0
20 24	30.20	47.7	47.1
21 12	30.20	48.7	48.0
23 6	30.21	47.5	47.4
23 54	30.22	45.8	46.1
7 23 56	29.965	46.5	45.4
0 22	29.96	45.9	44.9
1 31	29.93	44.0	42.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 20, 35, 40.	Bisections at II, III, IV, V, VI.
2.	Z. D. thread A used.
5, 30, 39, 43.	Bisections at II, VI, VII.
13.	Bisections at I, II.
14, 26, 27, 28, 32, 33, 34.	Bisections at VI, VII.
25.	Bisection at II.
38.	Bisections at I, II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+44 3.7	+16 26.9	...	+60 30.6
6	+ 0.1	....	...	+ 0.1
13	+ 7.9	+16 17.1	...	+16 25.0
14	+ 7.9	−16 17.0	...	−16 9.1
15	+ 5.1	....	+ 0.1	+ 5.2
20	+39 22.9	+16 21.1	...	+55 44.0
25	+ 7.8	−16 17.8	...	−16 10.0
26	+ 7.9	+16 17.8	...	+16 25.7
29	+ 5.1	....	+ 0.1	+ 5.2
35	+34 15.5	+16 12.8	...	+50 28.3
40	+29 7.7	+16 3.2	...	+45 10.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 7, La.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Scorpii	11	23 56.17	+ 1.84	−41.27	294 52 8.68	26.578	−2 6.9	25.9	16 23	.....	.. ..	....
2	ζ Ophiuchi	11	32 19.06	+ 1.40	−41.20	310 40 6.22	30.288	−1 8.7	26.8	16 31	.....	.. ..	....
3	η Ophiuchi	11	5 18.25	+ 1.53	−41.17	305 26 8.15	30.315	−1 22.8	25.4	17 4	.....	.. ..	....
4	μ Herculis	11	43 13.04	+ 0.38	−41.28	348 48 11.78	29.231	− 11.6	25.0	17 42	.....	.. ..	....
5	Mercury C, C	11	58 0.66	+ 1.74	**−41.23**	297 40 12.08	30.580	−1 51.9	**26.2**	17 57 21.17	− 0.03	−23 22 21.8	....
	January 8, La.												
6	Sun I, N	11	17 35.51	+ 1.70	**−41.23**	299 4 7.65	31.085	−1 45.4	**26.2**	19 16 55.98	+70.64	−21 58 5.2	....
7	Sun II, S	11	19 56.79	+ 1.70	**−41.23**	298 32 8.35	29.975	−1 47.9	**26.2**	19 19 17.26	−70.64	−22 30 38.9	....
8	α Aquilæ	11	46 34.33	+ 0.91	−41.23	329 38 14.15	29.232	− 34.5	27.2	19 45	.....	.. ..	....
9	ε Cygni	11	42 50.51	+ 0.18	−41.31	354 36 10.80	31.622	− 5.5	25.6	20 42	.....	.. ..	....
10	Venus I, C	6	16 52.33	+ 1.56	**−41.22**	303 24 13.75	27.921	−1 29.4	**26.2**	21 16 12.67	+ 0.51	−17 39 13.4	....
11	Venus II	5	16 53.25	+ 1.56	**−41.22**	... .	......	....	....	21 16 13.59	− 0.41	.. ..	....
12	β Aquarii	11	26 57.73	+ 1.26	−41.22	315 2 10.98	28.264	− 59.0	26.8	21 26	.....	.. ..	....
13	ε Pegasi	11	39 56.82	+ 0.88	−41.18	330 28 10.90	26.765	− 33.5	26.6	21 39	.....	.. ..	....
14	f Piscium	11	13 19.66	+ 1.02	−41.06	324 6 7.85	31.990	− 43.5	27.1	1 12	.....	.. ..	....
15	α Ursæ Minoris	8	24 40.64	−66.59	[−41.10]	49 48 6.28	27.017	+1 11.3	[26.8]	1 22	.....	.. ..	....
16	Moon I, S	11	36 38.21	+ 0.76	**−41.09**	334 54 11.95	30.463	− 28.2	**26.6**	1 35 57.88	+68.17	+13 52 57.8	....
17	β Arietis	11	49 48.91	+ 0.58	−41.10	341 20 3.95	31.246	− 20.3	26.8	1 49	.....	.. ..	....
18	α Arietis	11	2 14.32	+ 0.50	−41.10	344 0 4.52	31.572	− 17.2	25.8	2 1	.....	.. ..	....
19	ξ′ Ceti	11	8 23.67	+ 0.90	−41.09	329 24 7.80	30.422	− 35.6	26.6	2 7	....	.. ..	....
20	χ Aurigæ	11	26 56.85	+ 0.22	−41.03	353 8 1.85	30.428	− 7.2	27.3	5 26	.....	.. ..	....
21	ε Orionis	11	31 50.54	+ 1.18	−41.00	319 46 1.55	29.660	− 51.4	28.2	5 31	.....	.. ..	....
22	Neptune C, C	11	39 6.54	+ 0.55	**−40.99**	343 6 7.75	27.644	− 18.4	**27.0**	5 38 26.10	.....	+22 3 42.8	....
23	κ Orionis	11	43 42.78	+ 1.40	−41.00	311 20 3.28	29.325	−1 9.0	26.2	5 43	.....	.. ..	....
24	α Orionis	11	50 27.97	+ 0.96	−40.95	328 24 10.75	31.426	− 37.4	26.3	5 49	.....	.. ..	....
25	θ Virginis	11	5 27.20	+ 1.26	[−40.96]	316 2 4.72	28.926	− 59.6	[28.0]	13 4	.....	.. ..	....
26	α Ursæ Minoris S. P.	7	22 15.49	+79.46	[−42.44]	52 14 0.68	27.353	+1 20.0	[26.1]	1 22	.....	.. ..	....
27	ζ Virginis	11	30 16.67	+ 1.13	[−40.95]	320 55 54.92	31.468	− 50.2	[27.4]	13 29	.....	.. ..	....
	January 9, Br.												
28	β Andromedæ	11	4 50.25	+ 0.12	−41.22	356 8 7.10	27.114	− 4.1	26.2	1 4	.....	.. ..	....
29	α Ursæ Minoris	8	24 49.64	−74.40	[−43.17]	49 48 7.42	26.998	+1 11.8	[27.8]	1 22	.....	.. ..	....
30	ο Piscium	11	40 48.29	+ 1.00	−41.18	329 42 13.58	27.330	− 35.4	26.9	1 40	.....	.. ..	....
31	Moon I, S	11	32 41.31	+ 0.74	**−41.20**	338 54 8.72	27.119	− 23.4	**27.1**	2 32 0.85	+68.88	+17 51 23.5	....
32	σ Arietis	11	46 40.45	+ 0.82	−41.22	335 42 10.95	29.124	− 27.4	27.5	2 46	.....	.. ..	....
33	ε Arietis	11	54 12.10	+ 0.63	−41.24	341 58 12.70	29.338	− 19.8	27.7	2 53	.....	.. ..	....
34	α Ceti	11	57 44.89	+ 1.14	−41.16	324 44 13.45	28.698	− 43.0	27.3	2 57	.....	.. ..	....
	January 12, B.												
35	ι Aurigæ	11	51 12.64	+ 0.25	−41.27	354 1 58.50	29.319	− 6.2	27.3	4 50	.....	.. ..	....
36	11 Orionis	11	59 34.24	+ 0.78	−41.28	336 17 59.58	28.619	− 26.2	27.5	4 58	.....	.. ..	....
37	Moon I, S	11	25 18.69	+ 0.59	**−41.28**	343 31 58.02	30.702	− 17.6	**27.8**	5 24 38.00	+68.98	+22 31 0.0	....
38	Neptune C, C	11	38 41.04	+ 0.61	**−41.28**	343 5 58.50	27.752	− 18.2	**27.8**	5 38 0.37	.....	+22 3 35.7	....
30	α Orionis	11	50 28.25	+ 1.00	−41.26	328 25 56.88	27.760	− 36.8	28.9	5 49	.....	.. ..	....
40	ν Orionis	11	2 34.89	+ 0.82	−41.30	335 47 57.25	30.572	− 26.9	27.7	6 1	.....	.. ..	....
	January 13, U.												
41	ε Orionis	11	31 51.55	+ 0.76	−41.60	319 45 56.15	29.469	− 51.3	18.2	5 31	.....	.. ..	....
42	Neptune C, C	11	38 35.31	+ 0.34	**−41.58**	343 6 12.82	26.795	− 18.4	**17.1**	5 37 54.07	.....	+22 3 33.3	....
43	α Orionis	11	50 28.92	+ 0.61	−41.55	328 26 13.55	26.778	− 37.2	17.4	5 49	.....	.. ..	....
44	μ Geminorum	11	17 38.74	+ 0.33	−41.60	343 36 9.40	27.491	− 17.8	16.6	6 16	.....	.. ..	....
45	Moon I, N	11	21 40.22	+ 0.36	**−41.58**	343 0 5.35	30.293	− 18.5	**17.1**	6 20 59.00	+67.82	+21 59 5.5	....
46	γ Geminorum	11	32 39.95	+ 0.45	−41.55	337 30 3.62	30.362	− 25.0	16.2	6 31	.....	.. ..	....

Time. d	h	m	Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
7	16	27	30.02	42.2	42.6
	17	7	30.035	43.5	43.1
	18	1	30.05	44.4	43.9
8	19	20	30.03	45.0	44.2
	19	48	30.02	44.2	43.9
	20	46	30.04	44.6	43.7
	21	36	30.05	44 4	42.9
	1	15	30.15	38.0	36.4
	2	14	30.16	36.0	35.3
	5	20	30.20	33.2	32.6
	5	52	30.20	32.6	31.7
	13	8	30.22	26.0	24.4
	13	33	30.23	25.2	24.0
9	1	8	30.07	33.5	31.9
	1	46	30.05	32.8	31.4
	3	3	30.025	30.5	29.0
12	4	54	29.69	33.4	32.9
	5	28	29.71	32.8	32.3
	6	5	29.73	32.0	31.8
13	5	42	29.82	28.5	27.4
	6	30	29.780	29.0	27.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

6. Bisections at I, II.
7, 14, 34. Bisections at VI, VII.
15. Bisections at c_2, c_3, c_5.
16, 31, 37, 45. Bisections at II, III, IV, V, VI.
21, 23, 42. Bisections at II, VI, VII.
26. Bisections at c_5, c_4, c_3, c_2, c_1.
29. Bisections at c_1, c_2, c_3, c_4, c_5.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 6.3	....	0.0	+ 6.3
6	+ 7.8	−16 16.8	...	−16 9.0
7	+ 7.9	+16 16.8	...	+16 24.7
10	+ 5.2	....	+ 0.2	+ 5.4
16	+24 24.9	+15 53.0	...	+40 17.9
22	+ 0.1	....	...	+ 0.1
31	+20 29.0	+15 42.9	...	+36 11.9
37	+15 35.5	+15 15.9	...	+30 51.4
38	+ 0.1	....	...	+ 0.1
42	+ 0.1	....	...	+ 0.1
45	+15 57.2	−15 8.3	...	+ 48.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 14, La.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Lyræ	11	34 14.38	+ 0.03	—42.09	359 41 58.82	30.485	— 0.2	16.4	18 33	.....	.. ..	....
2	β Cygni	11	27 22.58	+ 0.24	—42.04	348 46 8.90	29.757	— 11.6	17.6	19 26	.....	.. ..	....
3	α Aquilæ...........	11	46 35.65	+ 0.50	—42.08	329 38 9.68	29.050	— 34.4	18.7	19 45	.....	.. ..	....
	January 15, La.												
4	Sun I, S.........	11	47 56.86	+ 0.88	**—42.07**	299 40 2.30	28.405	—1 42.7	**17.8**	19 47 15.67	+70.11	—21 23 15.7	...
5	Sun II, N........	11	50 17.08	+ 0.88	**—42.07**	300 12 4.22	29.452	—1 40.5	**17.8**	19 49 35.89	—70.11	—20 50 42.2	....
6	ε Cygni	11	42 51.30	+ 0.13	—42.05	354 36 7.42	31.359	— 5.4	16.6	20 42	.....	.. ..	....
7	ζ Cygni	11	9 22.41	+ 0.19	—42.15	350 50 8.35	29.974	— 9.4	17.3	21 8	.....	.. ..	....
8	ε Pegasi...........	11	39 58.15	+ 0.47	—42.12	330 26 12.28	30.618	— 33.0	19.2	21 39	.....	.. ..	....
9	Venus I, C	5	51 4.36	+ 0.76	**—42.08**	306 12 7.30	29.380	—1 19.5	**17.8**	21 50 23.04	+ 0.43	—14 50 20.1	....
10	Venus II	6	51 5.12	+ 0.76	**—42.08**	... .	......	....	....	21 50 23.80	— 0.33	.. ..	....
11	α Aquarii..........	11	1 20.46	+ 0.59	—42.00	320 14 7.60	28.450	— 48.5	18.6	22 0	.....	.. ..	....
12	μ Andromedæ	11	51 55.17	+ 0.05	—42.06	358 58 5.15	31.022	— 1.0	18.4	0 51	.....	.. ..	....
13	β Andromedæ	11	4 50.99	+ 0.10	—42.04	356 6 2.40	31.161	3.9	17.4	1 4	.....	.. ..	....
14	α Ursæ Minoris....	8	24 1.54	—30.11	[—44.86]	49 46 3.72	31.103	+1 9.8	[18.7]	1 22	.....	.. ..	....
15	δ Orionis..........	11	27 37.55	+ 0.59	—41.92	320 40 2.08	28.262	— 48.7	18.9	5 26	....	.. ..	....
16	ε Orionis..........	11	31 52.02	+ 0.60	—41.91	319 46 6.38	29.088	— 50.3	18.8	5 31	.....	.. ..	....
17	Neptune C, C....	11	38 23.44	+ 0.30	**—41.92**	343 4 3.75	31.240	— 18.1	**18.3**	5 37 41.82	.....	+22 3 29.9	....
18	κ Orionis..........	11	43 44.38	+ 0.71	—41.92	311 20 5.50	28.865	—1 7.6	18.0	5 43	.....	.. ..	....
19	α Orionis	11	50 29.41	+ 0.50	—41.92	328 24 5.78	31.240	— 36.6	17.4	5 49	.....	.. ..	....
20	φ Geminorum	11	48 7.37	+ 0.23	—41.94	348 2 6.38	30.572	— 12.6	17.2	7 47	.....	.. ..	....
21	ω^1 Cancri...........	11	55 37.53	+ 0.25	—41.99	346 40 6.58	31.674	— 14.1	17.1	7 54	.....	.. ..	....
22	Moon II, S	11	9 43.52	+ 0.40	**—41.97**	337 10 7.35	30.235	— 25.1	**17.4**	8 9 1.95	—64.52	+16 8 59.0	....
23	30 Monocerotis	11	21 23.70	+ 0.66	—41.96	317 26 3.78	31.501	— 54.7	17.2	8 20	.....	.. ..	....
24	η Cancri...........	11	27 40.05	+ 0.33	—41.99	341 48 7.28	29.414	— 19.6	18.2	8 26	.....	.. ..	....
25	α Ursæ Minoris S. P.	7	22 49.36	+39.31	[—42.64]	52 12 4.58	31.218	+1 17.5	[18.0]	1 22	.....	.. ..	....
26	B. A. C. 4536	11	31 2.85	+ 0.02	[—41.89]	358 42 4.92	30.196	— 1.3	[17.0]	13 30	.....	.. ..	....
27	m Virginis	11	37 4.36	+ 0.76	[—42.10]	312 50 7.52	29.520	+1 4.6	[18.2]	13 36	.....	.. ..	....
	January 15, Br.												
28	α Aquilæ....	11	46 35.67	+ 0.52	—42.11	329 38 13.42	28.911	— 34.1	19.0	19 45	.....	.. ..	....
	January 16, Br.												
29	Sun I, N	11	52 14.28	+ 0.90	**—42.15**	300 24 9.08	27.662	—1 38.9	**18.5**	19 51 33.03	+70.01	—20 39 27.0	....
30	Sun II, S........	11	54 34.29	+ 0.90	**—42.15**	299 52 6.70	26.702	—1 41.0	**18.5**	19 53 53.04	—70.00	—21 11 59.3	....
31	ζ Cygni	11	9 22.48	+ 0.21	—42.24	350 52 8.78	25.756	— 9.2	17.9	21 8	.....	.. ..	....
32	ε Pegasi...........	11	39 58.14	+ 0.48	—42.12	330 28 12.52	26.345	— 32.3	18.5	21 39	.....	.. ..	....
33	Venus I, S.......	6	55 51.88	+ 0.75	**—42.16**	306 38 8.80	28.678	—1 16.4	**18.5**	21 55 10.47	+ 0.37	—14 24 36.1	....
34	Venus II, N	5	55 52.54	+ 0.75	**—42.16**	306 38 8.80	29.090	—1 16.4	**18.5**	21 55 11.13	— 0.29	—14 24 24.5	....
35	μ Andromedæ	10	51 55.26	+ 0.06	—42.18	359 0	......	....	....	0 51	.....	.. ..	....
36	ε Piscium	11	58 27.88	+ 0.48	—42.17	328 24 11.22	26.754	— 35.4	18.0	0 57	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
14 18 36	30.065	44.2	44.2
19 27	30.05	46.6	45.9
15 19 50	30.04	47.0	46.1
20 46	30.02	48.2	48.3
21 42	30.01	49.8	48.9
22 4	30.01	50.0	48.8
0 47	30.00	46.7	45.7
1 19	30.00	45.0	44.5
5 21	29.975	39.8	38.8
5 58	29.97	39.2	37.9
7 35	29.94	37.8	36.8
8 26	29.92	37.4	36.3
13 18	29.85	34.7	33.2
13 40	29.84	34.3	33.1
19 40	29.865	46.2	46.5
16 19 55	29.87	47.8	47.7
21 43	29.88	57.0	58.3
22 3	29.89	58.1	59.2
0 46	29.95	55.5	55.0
1 9	29.96	54.0	54.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2. Bisections at I, II, VII.
3, 4, 29. Bisections at I, II.
5, 30. Bisections at VI, VII.
14. Bisections at c_1, c_2, c_3, c_4, c_5.
16. Bisections at II, VI, VII.
22. Bisections at II, III, IV, V, VI.
25. Bisections at c_5, c_4, c_3, c_2, c_1.
33. Bisections at I, VII.
34. Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 7.8	+16 16.7	...	+16 24.5
5	+ 7.7	—16 16.7	...	—16 9.0
9	+ 5.1	....	+ 0.2	+ 5.3
17	+ 0.1	....	...	+ 0.1
22	+20 57.6	+14 55.4	...	+35 53.0
29	+ 7.7	—16 16.1	...	—16 8.4
30	+ 7.8	+16 16.1	...	+16 23.9
33	+ 5.0	+ 5.9	...	+ 10.9
34	+ 5.0	— 5.9	+ 0.2	— 0.7

NINE-INCH TRANSIT CIRCLE.

OBSERVATIONS AND REDUCTIONS.

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 22, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Ophiuchi........	11	30 58.82	+ 0.08	—41. 25	333 40 1.10	43.038	— 29.3	53. 7	17 30	.....	.. ..	....
2	α Lyræ	11	34 13.96	— 0.16	—41. 34	359 42 9.48	45.725	— 0.2	53. 1	18 33	.....	.. ..	....
3	Mercury C, C....	11	36 35.37	+ 0.28	**—41.28**	297 52 7.92	48.740	—1 49.2	**52.6**	19 35 54.37	— 0.01	—23 9 30.6	....
4	α Aquilæ.........	11	46 35.36	+ 0.08	—41. 29	329 38 8.52	44.092	— 33.9	52. 4	19 45	.....	.. ..	....
	January 23, Br.												
5	Sun I, N	11	21 56.07	+ 0.25	**—41.26**	301 52 12.18	47.430	—1 32.3	**52.3**	20 21 15.06	+69.33	—19 9 32.6	....
6	Sun II, S........	11	24 14.72	+ 0.25	**—41.26**	301 20 13.78	45.750	—1 34.3	**52.3**	20 23 33.71	—69.32	—19 42 9.2	....
7	ε Pegasi..........	11	39 57.69	+ 0.05	—41. 24	330 26 7.40	46.534	— 32.3	51. 4	21 39	.....	.. ..	....
8	α Aquarii	11	1 20.18	+ 0.12	—41. 26	320 14 7.55	43.115	— 47.2	52. 0	22 0	.....	.. ..	....
9	Venus I, S.......	5	28 48.49	+ 0.18	**—41.23**	309 48 5.95	44.808	—1 7.7	**51.4**	22 28 7.44	+ 0.42	—11 14 5.7	....
10	Venus II, N	5	28 49.22	+ 0.18	**—41.23**	309 48 5.95	45.492	—1 7.7	**51.4**	22 28 8.17	— 0.31	—11 13 52.7	....
11	ζ Pegasi	11	37 9.84	+ 0.04	— 41. 18	331 20 4.48	45.331	— 30.8	51. 1	22 36	.....	.. ..	....
12	λ Pegasi	11	42 24.31	— 0.07	—41. 26	344 4 8.28	43.941	— 16.1	51. 5	22 41	.....	.. ..	....
13	β Andromedæ	11	4 50.46	— 0.22	—41. 33	356 6 7.60	46.957	— 3.8	51.0	1 4	.....	.. ..	...
14	α Ursæ Minoris....	11	23 38.64	—19.01	[—41. 40]	49 46 11.15	46.917	+1 7.4	[52. 9]	1 22	.....	.. ..	....
15	ο Piscium	11	40 49.08	— 0.03	—41. 11	329 40 10.42	47.386	— 33.3	52. 3	1 40	.....	.. ..	....
16	α Canum Venat....	10	52 4.08	— 0.10	—41. 27	359 52 11.12	44.975	— 0.1	[53. 4]	12 51	.....	.. ..	....
17	θ Virginis	11	5 29.00	+ 0.12	—41. 14	316 2 26.52	42.115	— 57.1	54. 4	13 4	.....	.. ..	....
18	α Ursæ Minoris S.P.	7	23 4.49	+14.97	[—41. 66]	52 12 10.18	47.226	+1 16.6	[54.0]	1 22	.....	.. ..	....
19	κ Virginis.........	11	8 15.96	+ 0.14	—41. 10	311 14 8.08	43.249	—1 7.7	55. 0	14 7	.....	.. ..	....
20	λ Virginis.........	11	14 24.26	+ 0.15	—41. 21	308 8 8.00	43.256	—1 15.6	55. 0	14 13	.....	.. ..	....
21	Moon II, S	11	25 44.54	+ 0.17	**—41.17**	302 12 8.32	47.268	—1 34.1	**55.0**	14 25 3.54	—66.27	—18 49 46.1	....
22	α² Libræ	11	46 2.96	+ 0.16	—41. 21	305 24 8.65	47.128	—1 23.7	55. 7	14 45	.....	.. ..	....
	January 23, B.												
23	α Ophiuchi........	11	30 58.54	+ 0.13	—41. 00	333 40 10.28	42.620	— 29.6	54. 9	17 30	.....	.. ..	....
24	α Lyræ............	11	34 13.69	— 0.07	—41. 14	359 42 9.95	45.666	— 0.2	52. 6	18 33	.....	.. ..	....
25	β Lyræ............	11	47 3.99	— 0.03	—41. 21	354 16 10.35	44.041	— 5.9	53. 4	18 46	.....	.. ..	....
26	γ Lyræ............	11	55 52.89	— 0.03	—41. 22	353 54 11.05	45.192	— 6.7	53. 8	18 55	.....	.. ..	....
27	Mercury C, C	11	43 25.80	+ 0.24	**—41.10**	298 4 8.82	46.990	—1 51.1	**53.3**	19 42 44.94	— 0.01	—22 58 6.1	....
	January 24, B.												
28	Sun I, S..........	11	26 7.24	+ 0.20	**—41.07**	301 33 58.65	47.542	—1 36.0	**53.1**	20 25 26.37	+69.28	—19 27 48.4	....
29	Sun II, N.........	11	28 25.79	+ 0.20	**—41.07**	302 6 5.70	48.918	—1 34.0	**53.1**	20 27 44.92	—69.27	—18 55 16.7	....
30	α Aquarii	11	1 19.96	+ 0.09	—41. 01	320 14 8.72	43.106	— 49.1	51. 2	22 0	.....	.. ..	....
31	Venus I, C........	6	33 25.87	+ 0.13	**—40.99**	310 16 7.95	46.751	—1 9.5	**52.5**	22 32 45.01	+ 0.52	—10 45 29.3	....
32	Venus II	5	33 26.78	+ 0.13	**—40.99**	... .	......	....	....	22 32 45.92	— 0.39	.. ..	....
33	ζ Pegasi...........	11	37 9.56	+ 0.03	—40. 89	331 20 11.35	45.078	— 32.2	52. 0	22 36	.....	.. ..	....
34	λ Pegasi...........	11	42 24.02	— 0.05	—41. 00	344 4 9.82	43.991	— 16.8	53. 5	22 41	.....	.. ..	....
35	λ Aquarii..........	11	48 5.13	+ 0.12	—41. 08	312 56 8.82	42.752	—1 3.3	53. 5	22 47	.....	.. ..	....
36	β Andromedæ	11	4 50.08	— 0.18	—41. 00	356 6 8.35	46.994	— 4.0	[52. 9]	1 4	.....	.. ..	....
37	α Ursæ Minoris....	9	23 35.06	—18.42	[—39. 27]	49 46 10.45	46.880	+1 10.3	[54. 5]	1 22	.....	.. ..	....
38	ν Piscium	11	36 55.66	+ 0.03	—40. 94	326 0 9.10	46.620	— 39.9	[53. 2]	1 36	.....	.. ..	....
	January 25, La.												
39	Moon II..........	11	18 7.20	+ 0.37	**—41.24**	297 42	......	....	....	16 17 26.33	—70.84	.. ..	....
40	ζ Ophiuchi.........	11	32 20.70	+ 0.30	—41. 23	310 40 12.70	45.550	—1 11.0	[57. 5]	16 31	.....	.. ..	....
41	κ Ophiuchi.........	11	53 37.48	+ 0.20	—41. 24	330 34 4.45	42.648	— 34.5	54. 4	16 52	.....	.. ..	....
42	η Ophiuchi.........	11	5 20.06	+ 0.33	—41. 30	305 26 7.60	45.905	—1 25.6	55. 8	17 4	.....	.. ..	....
43	α¹ Herculis.........	10	10 46.54	+ 0.18	—41. 24	335 32 12.35	43.338	— 27.8	55. 2	17 10	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
22 17 42	29.83	42.1	39.7
18 37	29.815	45.0	43.9
19 53	29.785	49.6	48.5
23 20 24	29.76	51.0	51.0
21 44	29.735	55.0	56.0
22 5	29.73	56.7	58.8
22 46	29.735	58.5	60.9
1 1	29.75	57.6	58.6
2 11	29.76	54.9	55.0
13 0	29.845	40.1	38.9
13 44	29.855	40.0	38.1
14 29	29.87	39.0	36.9
14 50	29.89	38.0	35.8
17 33	29.945	37.6	35.0
18 36	29.965	39.4	37.1
18 58	29.960	40.2	37.1
19 48	29.945	41.5	38.0
24 20 28	29.91	42.0	39.7
21 54	29.90	43.5	40.9
22 51	29.895	42.5	41.9
1 7	29.86	40.6	38.9
1 40	29.86	39.8	38.3
25 16 36	29.58	23.0	19.9
17 16	29.60	22.5	20.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 28.	Bisections at I, II.
6, 29, 40, 43.	Bisections at VI, VII.
9.	Bisections at I, VII.
10.	Bisections at II, VI.
13, 16.	Bisections at II, VI, VII.
14, 37.	Bisections at c₁, c₂, c₃, c₄, c₅.
18.	Bisections at c₅, c₄, c₃, c₂, c₁.
21.	Bisections at II, III, IV, V, VI.
42.	Bisections at I, II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 5.6	....	0.0	+ 5.6
5	+ 7.6	—16 18.3	...	—16 10.7
6	+ 7.6	+16 18.3	...	+16 25.9
9	+ 5.0	+ 6.6	...	+ 11.6
10	+ 5.0	— 6.6	+ 0.2	— 1.4
21	+46 59.5	+15 13.3	...	+62 12.8
27	+ 5.6	....	0.0	+ 5.6
28	+ 7.6	+16 15.8	...	+16 23.4
29	+ 7.6	—16 15.9	...	—16 8.3
31	+ 5.0	....	+ 0.1	+ 5.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Cygni	11	27 22.22	+ 0.09	−41.39	348 46 13.82	45.016	− 12.1	55.6	19 26	.....	.. ..	....
2	α Aquilæ	10	46 35.19	+ 0.21	−41.21	329 38 8.90	44.243	− 35.7	55.0	19 45	.....	.. ..	....
3	Mercury C, C	11	57 10.74	+ 0.36	**−41.28**	298 32 7.40	44.394	−1 51.6	**54.6**	19 56 29.82	− 0.01	−22 30 59.2	....
	January 26, La.												
4	Sun I, N	11	34 27.98	+ 0.34	**−41.24**	302 36 8.02	47.715	−1 34.8	**54.5**	20 33 47.08	+69.02	−18 25 35.9	....
5	Sun II, S	11	36 46.02	+ 0.34	**−41.24**	302 4 8.78	46.425	−1 36.8	**54.5**	20 36 5.12	−69.02	−18 58 5.9	....
6	ε Pegasi	11	39 57.45	+ 0.20	−41.14	330 26 11.20	46.569	− 34.4	54.1	21 39	.....	.. ..	....
7	α Aquarii	7	1 19.89	+ 0.26	−41.10	320 14 13.35	42.990	− 50.5	53.9	22 0	.....	.. ..	....
8	Venus I, C	7	42 37.88	+ 0.30	**−41.19**	311 14 4.78	46.300	−1 9.0	**53.9**	22 41 56.99	+ 0.44	− 9 47 44.3	....
9	α Pegasi	11	0 28.05	+ 0.18	−41.20	335 42 4.92	43.685	− 27.3	53.9	22 59	.....	.. ..	....
10	μ Andromedæ	11	51 54.33	0.00	−41.37	358 58 5.90	47.025	− 1.0	[53.7]	0 51	.....	.. ..	....
11	β Andromedæ	11	4 50.27	+ 0.03	−41.44	356 6 6.82	47.099	− 4.1	[53.5]	1 4	.....	.. ..	....
12	α Ursæ Minoris	8	23 41.30	−21.74	[−43.92]	49 46 7.85	46.915	+1 12.3	[54.5]	1 22	.....	.. ..	....
13	α Ursæ Minoris S. P.	7	22 53.20	+25.13	[−43.12]	52 12 9.18	47.223	+1 20.2	[56.6]	1 22	.....	.. ..	....
14	ζ Virginis	11	30 18.48	+ 0.28	[−41.32]	320 56 8.82	46.538	− 50.3	[55.8]	13 29	.....	.. ..	....
15	m Virginis	11	37 4.36	+ 0.33	[−41.31]	312 50 9.42	44.971	−1 6.9	[56.5]	13 36	.....	.. ..	....
	January 26, Br.												
16	α¹ Herculis	11	10 46.75	+ 0.19	−41.44	335 32 11.65	43.395	− 28.1	56.4	17 10	.....	.. ..	....
17	Moon II	11	19 26.32	+ 0.49	**−41.48**	297 10	......	....	....	17 18 45.33	−72.47	.. ..	....
18	α Ophiuchi	11	30 58.95	+ 0.21	−41.42	333 40 12.00	42.639	− 30.6	56.5	17 30	.....	.. ..	....
19	μ Herculis	11	43 14.03	+ 0.06	−41.54	348 48 27.45	43.172	− 12.2	55.3	17 42	.....	.. ..	....
20	ζ Aquilæ	10	1 30.14	+ 0.20	−41.58	334 44 11.00	45.741	− 28.9	56.5	19 0	.....	.. ..	....
21	α Aquilæ	10	46 35.54	+ 0.24	−41.57	329 38 11.18	44.215	− 35.8	56.1	19 45	.....	.. ..	....
	January 27, Br.												
22	Sun I, S	11	38 37.55	+ 0.44	**−41.58**	302 20 8.75	44.140	−1 35.9	**55.5**	20 37 56.41	+68.81	−18 42 46.0	....
23	Sun II, N	11	40 55.17	+ 0.44	**−41.58**	302 52 8.82	45.775	−1 34.0	**55.5**	20 40 14.03	−68.81	−18 10 16.6	....
24	Venus I, C	6	47 13.05	+ 0.37	**−41.64**	311 44 10.48	43.612	−1 7.8	**54.9**	22 46 31.78	+ 0.31	− 9 18 27.7	....
25	Venus II	5	47 13.58	+ 0.37	**−41.64**	... .	......	....	....	22 46 32.31	− 0.22	.. ..	....
26	α Pegasi	10	0 28.53	+ 0.19	−41.69	335 42 9.15	43.498	− 27.3	54.1	22 59	.....	.. ..	....
27	α Andromedæ	11	3 55.27	+ 0.05	−41.72	349 34 9.70	43.739	− 11.1	54.9	0 3	.....	.. ..	....
28	γ Pegasi	11	8 47.19	+ 0.19	−41.61	335 40 10.52	42.325	− 27.3	54.8	0 8	.....	.. ..	....
	January 29, La.												
29	μ Andromedæ	11	51 55.64	− 0.07	[−42.65]	358 58 3.70	47.152	− 1.0	[54.4]	0 51	.....	.. ..	....
30	β Andromedæ	11	4 51.48	− 0.02	[−42.64]	356 6 4 50	47.242	− 4.1	[54.3]	1 4	.....	.. ..	....
31	α Ursæ Minoris	7	23 44.86	−30.65	[−41.42]	49 46 7.65	46.885	+1 13.0	[54.6]	1 22	.....	.. ..	....
32	θ Virginis	11	5 30.50	+ 0.50	[−42.84]	316 2 7.52	43.349	−1 0.3	[56.8]	13 4	.....	.. ..	....
33	α Ursæ Minoris S. P.	7	22 40.27	+36.83	[−44.83]	52 12 8.35	47.276	+1 20.9	[57.3]	1 22	.....	.. ..	....
34	ζ Virginis	11	30 19.95	+ 0.46	[−42.88]	320 56 7.58	46.595	− 50.7	[55.7]	13 29	.....	.. ..	....
	January 30, B.												
35	o Herculis	11	4 22.16	+ 0.01	−43.81	349 46 3.32	44.976	− 10.8	56.2	18 3	.....	.. ..	....
36	η Serpentis	11	16 51.93	+ 0.38	−43.89	318 6 4.42	46.150	− 54.1	55.0	18 16	.....	.. ..	....
37	α Lyræ	11	34 16.59	− 0.15	−43.81	359 42 4.28	45.989	− 0.2	55.1	18 33	.....	.. ..	....
38	β Lyræ	11	47 6.84	− 0.05	−43.91	354 16 4.68	44 312	− 6.0	54.6	18 46	.....	.. ..	....
	January 31, B.												
39	Sun I, N	11	55 8.39	+ 0.52	**−43.90**	303 56 2.82	47.928	−1 29.1	**54.7**	20 54 25.01	+68.42	−17 5 31.5	....
40	Sun II, S	11	57 25.22	+ 0.52	**−43.90**	303 24 6.30	46.430	−1 30.9	**54.7**	20 56 41.84	−68.41	−17 38 2.6	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
25 19 24	29.595	25.0	21.4
20 1	29.59	25.2	21.3
26 20 37	29.59	25.8	21.9
21 43	29.58	26.0	22.8
22 46	29.58	26.8	24.2
23 3	29.575	26.2	23.8
0 55	29.64	25.0	22.7
1 18	29.665	24.2	22.2
13 10	29.90	18.8	18.2
13 41	29.91	18.2	17.5
17 22	29.98	22.1	20.8
17 48	29.995	23.5	22.0
19 4	30.00	26.9	24.9
19 47	30.00	27.9	25.9
27 20 41	29.99	29.1	27.8
22 52	29.97	32.2	30.1
23 0	29.97	32.3	30.3
0 12	29.96	32.1	30.8
29 0 55	29.62	20.2	17.6
1 18	29.62	19.2	17.1
13 9	29.65	11.0	10.3
13 34	29.64	11.0	10.3
30 18 7	29.41	24.2	23.1
18 50	29.40	25.0	23.3
31 20 57	29.35	25.0	23.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2.	Bisections at I, II, VI.
4, 7, 22, 39.	Bisections at I, II.
5, 8, 23, 40.	Bisections at VI, VII.
12, 31.	Bisections at c_1, c_2, c_3, c_4, c_5.
13.	Bisections at c_4, c_2, c_1.
16, 26, 28.	Bisections at II, VI, VII.
33.	Bisections at c_5, c_4, c_3, c_2, c_1.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 5.5	....	0.0	+ 5.5
4	+ 7.5	−16 15.0	...	−16 7.5
5	+ 7.6	+16 14.9	...	+16 22.5
8	+ 4.9	....	+ 0.1	+ 5.0
22	+ 7.6	+16 14.6	...	+16 22.2
23	+ 7.5	−16 14.7	...	−16 7.2
24	+ 4.9	....	+ 0.1	+ 5.0
39	+ 7.4	−16 15.5	...	−16 8.1
40	+ 7.5	+16 15.5	...	+16 23.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	π^2 Pegasi..........	11	6 16.63	− 0.04	−44.03	353 42 2.92	46.564	− 6.6	53.9	22 5	.....	.. ..	....
2	λ Pegasi..........	11	42 26.74	+ 0.09	−43.89	344 4 3.40	44.438	− 17.2	54.8	22 41	.....	.. ..	....
3	α Pegasi..........	11	0 30.73	+ 0.19	−43.91	335 42 3.80	43.699	− 27.2	53.8	22 59	.....	.. ..	....
4	Venus I, C.......	5	5 23.58	+ 0.42	**43.94**	313 42 4.32	47.572	−1 3.0	**54.3**	23 4 40.06	+ 0 53	− 7 19 12.4	....
5	Venus II.........	6	5 24.50	+ 0.42	**−43.94**	... .	......	....	....	23 4 40.98	− 0.39	.. ..	....
6	τ Pegasi..........	11	16 25.30	+ 0.09	−43.93	344 12 3.90	48.165	− 17.0	54.9	23 15	.....	.. ..	....
7	ε Piscium	11	58 29.65	+ 0.27	−43.91	328 22 3.35	47.639	− 37.5	[56.0]	0 57	.....	.. ..	....
8	β Andromedæ	11	4 52.88	− 0.08	−44.02	356 6 2.40	47.321	− 4.1	[54.0]	1 4	.....	.. ..	....
9	α Ursæ Minoris	7	23 46.53	−32.92	[−42.94]	49 46 6.52	47.005	−1 12.5	[55.5]	1 22	.....	.. ..	....
10	α Ursæ Minoris S. P.	8	22 36.38	+36.04	[−42.29]	52 12 5.08	47.398	−1 21.4	[56.8]	1 22	.....	.. ..	....
11	ζ Virginis	11	30 21.41	+ 0.46	[44.28]	320 56 3.45	46.822	− 51.1	[56.0]	13 29	.....	.. ..	....
12	*m* Virginis	9	37 7.34	+ 0.53	[−44.34]	312 50 7.70	45.119	−1 7.9	[57.5]	13 36	.....	.. ..	....
	January 31, La.												
13	ο Herculis.........	11	4 22.94	+ 0.11	−44.67	349 46 8.22	44.800	− 11.3	57.4	18 3	.....	.. ..	....
14	η Serpentis	11	16 52.55	+ 0.45	−44.56	318 6 8.98	46.121	− 56.1	57.1	18 16	.....	.. ..	....
15	β Lyræ...........	11	47 7.60	+ 0.03	−44.73	354 16 12.62	44.054	− 6.2	57.6	18 46	.....	.. ..	....
16	γ Lyræ...........	11	55 56.48	+ 0.04	−44.73	353 34 3.38	45.627	− 7.0	56.6	18 55	.....	.. ..	....
17	ζ Aquilæ..........	11	1 33.14	+ 0.28	−44.57	334 44 9.55	45.830	− 29.4	57.2	19 0	.....	.. ..	....
18	Mercury C, C	11	38 50.97	+ 0.59	**−44.58**	300 28 3.52	44.627	−1 46.1	**56.6**	20 38 6.98	0.00	−20 34 56.0	....
	February 1, La.												
19	ε Pegasi...........	11	40 0.76	+ 0.30	−44.53	330 26 6.78	46.947	− 35.1	56.4	21 39	.....	.. ..	....
20	ζ Pegasi..........	6	37 12.83	+ 0.29	−44.44	331 20 13.38	45.315	− 33.8	56.2	22 36	.....	.. ..	....
21	α Pegasi..........	11	0 31.35	+ 0.24	−44.58	335 42 4.10	43.809	− 27.9	55.6	22 59	.....	.. ..	....
22	Venus I, C.......	6	9 54.22	+ 0.45	**−44.49**	314 14 4.95	42.365	−1 3.4	**55.8**	23 9 10.18	+ 0.52	− 6 48 53.6	....
23	Venus II.........	5	9 55.12	+ 0.45	**−44.49**	... .	......	....	....	23 9 11.08	− 0.38	.. ..	....
	February 1, Br.												
24	α Lyræ...........	11	34 18.20	− 0.09	−45.43	359 42 5.52	45.934	− 0.2	55.8	18 33	.....	.. ..	....
25	ζ Aquilæ..........	11	1 33.91	+ 0.33	−45.37	334 44 4.60	46.084	− 28.8	57.8	19 0	.....	.. ..	....
26	β Cygni...........	11	27 26.44	+ 0.12	−45.54	348 46 4.10	45.552	− 12.0	56.4	19 26	.....	.. ..	....
27	γ Aquilæ..........	11	42 15.39	+ 0.38	45.42	331 24 4.78	44.148	− 33.0	57.9	19 41	.....	.. ..	....
28	α Aquilæ..........	8	46 39.26	+ 0.40	−45.36	329 38	......	....	....	19 45	....	.. ..	....
29	Mercury C, C	11	45 50.35	+ 0.73	**−45.44**	300 52 4.55	46.121	−1 40.4	**57.2**	20 45 5.64	0.00	−20 10 20.3	....
	February 2, Br.												
30	Sun I, N.........	11	3 19.17	+ 0.69	**−45.45**	304 30 4.15	48.555	−1 27.0	**57.2**	21 2 34.41	+68.20	−16 31 18.4	....
31	Sun II, S.........	11	5 35.56	+ 0.69	**45.45**	303 58 4.32	47.335	−1 28.8	**57.2**	21 4 50.80	−68.19	−17 3 47.6	....
32	ε Arietis..........	11	54 16.50	+ 0.26	−45.60	341 58 4.35	44.695	− 19.5	57.2	2 53	.....	.. ..	....
33	ζ Arietis..........	11	9 56.16	+ 0.27	−45.58	341 42 4.75	44.724	− 19.9	57.9	3 9	.....	.. ..	....
34	*f* Tauri............	11	26 7.92	+ 0.37	−45.47	333 38 4.40	42.571	− 29.8	57.6	3 25	.....	.. ..	....
	February 2, B.												
35	ο Herculis.........	11	4 24.45	+ 0.04	−46.06	349 46 4.85	44.806	− 11.0	54.9	18 3	.....	.. ..	....
36	η Serpentis	11	16 54.09	+ 0.43	−46.03	318 6 4.02	46.172	− 54.7	54.8	18 16	.....	.. ..	...
37	γ Lyræ...........	11	55 57.95	− 0.04	−46.08	353 34 3.90	45.540	− 6.8	55.7	18 55	.....	.. ..	....
38	ζ Aquilæ..........	11	1 34.53	+ 0.22	−45.86	334 44 3.90	45.988	− 28.6	55.6	19 0	.....	.. ..	....
39	Mercury C, C	11	52 50.10	+ 0.54	**−45.99**	301 18 3.25	45.855	−1 38.0	**54.1**	20 52 4.65	0.00	−19 44 21.2	....
	February 3, B.												
40	Sun I, N.........	11	7 23.24	+ 0.50	**−45.98**	304 48 3.08	47.002	−1 25.5	**53.9**	21 6 37.76	+68.08	−16 13 44.7	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
31	22	4	29.35	26.2	22.8
	22	53	29.36	26.0	22.2
	23	22	29.365	25.2	22.0
	0	56	29.40	20.3	18.0
	1	28	29.41	18.5	16.7
	13	12	29.60	7.8	6.6
	13	44	29.605	7.2	6.0
	18	9	29.685	11.8	10.2
	19	5	29.69	14.4	11.7
	20	36	29.98	16.6	14.4
1	21	43	29.66	18.0	14.8
	22	40	29.65	18.8	15.4
	23	15	29.66	18.3	16.3
	18	36	29.76	19.8	19.9
	19	6	29.755	22.0	23.2
	19	53	29.74	25.0	26.9
	20	50	29.72	27.2	29.1
2	21	6	29.71	28.0	30.5
	2	50	29.74	29.5	30.5
	3	32	29.75	28.0	29.5
	18	5	29.95	25.5	25.0
	18	39	29.95	27.9	28.3
	19	8	29.95	29.5	30.0
	20	55	29.94	35.4	36.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 20, 26, 31.	Bisections at VI, VII.
9.	Bisections at c_1, c_2, c_3, c_4.
10.	Bisections at c_5, c_4, c_3, c_2, c_1.
16.	Bisections at I, II, VII.
18, 19.	Bisections at II, VI, VII.
27.	Bisections at I, II, VI.
30, 40.	Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 4.8	....	+ 0.1	+ 4.9
18	+ 5.4	....	0.0	+ 5.4
22	+ 4.8	....	+ 0.1	+ 4.9
29	+ 5.4	....	0.0	+ 5.4
30	+ 7.4	−16 14.6	...	−16 7.2
31	+ 7.4	+16 14.6	...	+16 22.0
39	+ 5.4	....	0.0	+ 5.4
40	+ 7.3	−16 15.2	...	−16 7.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun II, S	11	9 39.40	+ 0.50	**—45.98**	304 16 3.72	45.688	—1 27.3	**53.9**	21 8 53.92	—68.08	—16 46 15.1	....
2	ζ Pegasi	11	37 14.41	+ 0.17	—45.90	331 20 4.48	45.426	— 32.3	52.8	22 36	.....	.. ..	....
3	λ Pegasi	11	42 28.99	+ 0.01	—46.07	344 4 4.18	44.192	— 16.9	53.3	22 41	.....	.. ..	....
4	α Pegasi	11	0 32.82	+ 0.11	—45.93	335 42 3.02	43.645	— 26.7	52.9	22 59	.....	.. ..	....
5	Venus I, C	11	18 52.99	+ 0.34	**—46.00**	315 14 3.88	45.404	— 58.4	**52.8**	23 18 7.33	+ 0.45	— 5 47 48.5	....
6	γ Pegasi	11	8 51.58	+ 0.09	—45.96	335 40 4.42	42:528	— 26.6	53.0	0 8	.....	.. ..	....
7	ι Ceti	11	15 6.33	+ 0.36	—46.15	311 40 4.28	43.070	—1 6.1	51.7	0 14	.....	.. ..	....
8	Moon I, S	11	21 6.49	+ 0.17	**—46.08**	327 48 3.05	42.878	— 37.1	**52.3**	0 20 20.58	+68.72	+ 6 45 44.0	....
9	π Andromedæ	11	32 19.26	— 0.21	—46.10	354 12 3.22	43.184	— 5.9	52.4	0 31	.....	.. ..	....
	February 4, La.												
10	β Lyræ	11	47 10.38	— 0.09	—47.30	354 16 2.80	44.205	— 5.9	[52.0]	18 46	.....	.. ..	....
11	γ Lyræ	11	55 59.27	— 0.08	—47.32	353 34 3.42	45.440	— 6.6	54.0	18 55	.....	.. ..	....
12	ζ Aquilæ	11	1 35.88	+ 0.11	—47.06	334 44 5.98	45.781	— 28.0	54.6	19 0	.....	.. ..	....
13	γ Aquilæ	11	42 17.33	+ 0.13	—47.06	331 24 3.08	44.016	— 32.3	54.1	19 41	.....	.. ..	....
14	α Aquilæ	11	46 41.26	+ 0.14	—47.05	329 38 3.50	44.445	— 34.7	55.3	19 45	.....	.. ..	....
15	Mercury C, C	11	6 50.75	+ 0.35	**—47.13**	302 14 2.52	47.008	—1 33.6	**54.4**	21 6 3.97	0.00	—18 47 55.8	....
	February 5, La.												
16	Sun I, N	11	15 28.93	+ 0.32	**—47.13**	305 24 2.70	46.625	—1 23.1	**54.4**	21 14 42.12	+67.86	—15 37 50.4	....
17	Sun II, S	11	17 44.65	+ 0.32	**—47.13**	304 52 5.80	45.365	—1 24.8	**54.4**	21 16 57.84	—67.86	—16 10 17.3	....
18	ε Pegasi	10	40 3.54	+ 0.14	—47.14	330 26 3.95	46.861	— 33.5	54.6	21 39	.....	.. ..	....
19	α Aquarii	10	1 25.99	+ 0.22	—47.15	320 14	......	....	....	22 0	.....	.. ..	....
20	α Pegasi	11	0 33.96	+ 0.10	—47.07	335 42 3.60	43.638	— 26.6	53.7	22 59	.....	.. ..	....
21	Venus I, C	5	27 48.52	+ 0.24	**—47.13**	316 16 3.12	44.444	— 56.4	**54.4**	23 27 1.63	+ 0.46	— 4 46 7.3	....
22	Venus II	6	27 49.30	+ 0.24	**—47.13**	... .	......	....	....	23 27 2.41	— 0.32	.. ..	....
23	α Ursæ Minoris	8	23 39.25	—26.33	[—47.11]	49 46 4.60	47.157	+1 10.1	[54.6]	1 22	.....	.. ..	....
24	β Arietis	11	49 55.15	+ 0.05	—47.21	341 20 3.62	46.940	— 20.0	54.0	1 49	.....	.. ..	....
25	α Arietis	11	2 20.47	+ 0.02	—47.17	344 0 4.72	47.456	— 16.9	54.0	2 1	.....	.. ..	....
26	ξ^1 Ceti	11	8 30.07	+ 0.15	—47.11	329 24 4.75	45.961	— 35.0	55.9	2 7	.....	.. ..	....
27	Moon I, S	11	14 47.05	+ 0.08	**—47.16**	337 32 20.38	41.292	— 24.5	**54.8**	2 13 59.97	+69.36	+16 29 41.3	....
28	ξ^2 Ceti	11	23 38.74	+ 0.15	—47.14	329 2 4.10	46.142	— 35.6	55.2	2 22	.....	.. ..	....
29	α Ursæ Minoris S. P.	4	22 44.78	+25.92	[—45.30]	52 12 4.38	47.667	+1 18.0	[57.1]	1 22	.....	.. ..	....
30	η Bootis	11	50 44.34	+ 0.13	[—47.37]	339 54 4.00	48.147	— 22.0	[55.7]	13 49	.....	.. ..	....
31	α Bootis	11	11 54.79	+ 0.12	[—47.36]	340 44 6.10	42.498	— 21.0	[56.5]	14 11	.....	.. ..	....
	February 6, Br.												
32	μ Andromedæ	11	52 0.54	— 0.11	—47.64	358 58 2.45	47.122	— 1.0	[53.5]	0 51	.....	.. ..	....
33	β Andromedæ	11	4 56.44	— 0.07	—47.67	356 6 5.00	47.110	— 3.9	[53.5]	1 4	.....	.. ..	....
34	α Ursæ Minoris	11	23 38.63	25.97	[—47.67]	49 46 6.20	47.145	+1 8.5	[54.7]	1 22	.....	.. ..	....
35	β Arietis	11	49 55.55	— 0.09	—47.66	341 20 6.22	46.772	— 19.5	[54.0]	1 49	.....	.. ..	....
36	α Ceti	11	57 51.83	+ 0.24	—47.57	324 44 6.60	43.555	— 41.1	55.6	2 57	.....	.. ..	....
37	ζ Arietis	11	9 58.33	+ 0.09	—47.63	341 24	......	....	....	3 9	.....	.. ..	....
38	Moon I, S	11	12 26.80	+ 0.10	**—47.57**	340 48 7.68	43.327	— 20.2	**56.1**	3 11 39.33	+69.69	+19 46 10.3	....
39	f Tauri	11	26 10.09	+ 0.16	—47.50	333 38 6.30	42.360	— 28.8	56.1	3 25	.....	.. ..	....
40	η Tauri	11	42 21.77	+ 0.06	—47.58	344 48 5.02	48.525	— 15.7	56.5	3 41	.....	.. ..	....
	February 8, La.												
41	μ Andromedæ	11	52 0.73	— 0.33	—47.64	358 58 2.05	47.131	— 0.9	[53.8]	0 51	.....	.. ..	....
42	β Andromedæ	11	4 56.64	— 0.30	—47.67	356 6 2.20	47.184	— 3.7	[52.6]	1 4	.....	.. ..	....
43	α Ursæ Minoris	8	23 34.99	—23.73	[—47.83]	49 46 4.48	47.337	+1 6.0	[54.2]	1 22	.....	.. ..	....
44	i Tauri	11	46 21.43	— 0.04	—47.79	339 42 4.32	43.501	— 20.8	53.5	4 45	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
3 21 10	29.935	36.0	37.0
22 34	29.93	40.3	40.1
23 20	29.93	41.0	42.1
0 4	29.93	42.5	43.4
0 39	29.94	42.8	42.7
4 18 45	29.73	37.8	35.6
19 50	29.765	38.6	36.7
5 21 18	29.79	40.0	37.9
21 43	29.80	40.7	38.5
23 3	29.81	41.2	40.2
23 31	29.82	41.4	40.1
1 18	29.87	41.0	40.2
2 28	29.87	38.4	37.9
13 27	29.775	29.6	29.3
14 18	29.75	30.7	30.3
6 0 46	29.765	48.5	50.9
1 36	29.79	50.0	49.7
1 54	29.795	49.0	49.4
2 54	29.82	46.1	48.0
3 29	29.835	45.0	47.5
3 46	29.84	45.5	47.7
8 0 56	29.65	65.3	65.1
1 29	29.655	66.7	65.9
4 50	29.65	62.0	60.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 6, 7, 17, 36.	Bisections at VI, VII.
8, 27, 38.	Bisections at II, III, IV, V, VI.
16.	Bisections at I, II.
23, 43.	Bisections at c_1, c_2, c_3, c_4, c_5.
29.	Bisections at c_4, c_3, c_2.
30, 39.	Bisections at II, VI, VII.
34.	Bisections at c_2, c_3, c_4.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 7.4	+16 15.1	...	+16 22.5
5	+ 4.8	....	+ 0.1	+ 4.9
8	+31 44.6	+16 23.3	...	+48 7.9
15	+ 5.3	....	0.0	+ 5.3
16	+ 7.3	—16 13.4	...	—16 6.1
17	+ 7.3	+16 13.5	...	+16 20.8
21	+ 4.7	....	+ 0.1	4.8
27	+22 3.6	+15 56.1	...	+37 59.7
38	+18 40.0	+15 42.3	...	+34 22.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	11 Orionis	11	59 41.18	− 0.02	−47.67	336 18 3.05	42.778	− 24.7	53.8	4 58	.....	.. ..	....
2	Moon I, S	11	7 56.93	− 0.08	**−47.71**	343 28 41.16	40.865	− 16.7	**53.6**	5 7 9.14	+69.10	+22 26 3.0	....
3	β Tauri	11	20 48.65	− 0.13	−47.74	349 32 2.30	46.872	− 10.4	53.4	5 20	.....	.. ..	....
4	δ Orionis	11	27 43.58	+ 0.09	−47.65	320 40 2.60	42.715	− 46.1	53.7	5 26	.....	.. ..	....
5	θ Virginis	11	5 36.04	+ 0.01	[−47.61]	316 2 3.45	43.095	− 54.4	[53.8]	13 4	.....	.. ..	....
6	α Ursæ Minoris S. P.	7	22 47.97	+22.14	[−47.09]	52 12 3.92	47.813	+1 13.0	[54.3]	1 22	.....	.. ..	....
7	ζ Virginis	11	30 25.30	− 0.02	[−47.46]	320 56 3.35	46.338	− 45.8	[53.2]	13 29	.....	.. ..	....
	February 9, Br.												
8	α Orionis	11	50 35.18	+ 0.11	−47.46	328 24 8.30	47.421	− 36.9	56.1	5 49	.....	.. ..	....
9	ν Orionis	11	2 41.62	+ 0.06	−47.40	335 48	......	....	....	6 1	.....	.. ..	....
10	Moon I, S	11	4 16.16	0.00	**−47.49**	342 50 7.42	45.307	− 18.5	**55.9**	6 3 28.67	+68.00	+21 48 49.8	....
11	μ Geminorum	11	17 44.99	− 0.01	−47.60	343 34 7.45	48.426	− 17.7	55.6	6 16	.....	.. ..	....
12	ν Geminorum	11	23 51.75	+ 0.01	−47.53	341 18 8.35	44.199	− 20.3	55.7	6 23	.....	.. ..	....
13	γ Geminorum	11	32 46.23	+ 0.04	−47.48	337 30 5.78	46.239	− 24.9	56.2	6 31	.....	.. ..	....
	February 13, Br.												
14	κ Cancri	11	3 9.91	+ 0.15	−47.28	332 4 6.60	43.504	− 31.6	57.0	9 2	.....	.. ..	....
15	θ Hydræ	11	9 59.70	+ 0.20	−47.36	323 44 6.35	43.928	− 43.7	57.4	9 9	.....	.. ..	....
16	Moon I, N	11	27 47.08	+ 0.16	**−47.37**	331 2 6.15	44.423	− 33.0	**56.9**	9 26 59.87	+61.98	+10 2 16.1	....
17	Moon S	..	.. ..	.....	.....	330 32 7.55	44.322	− 33.7	**56.9**	.. ..	.....	+ 9 32 14.9	....
18	ο Leonis	11	36 39.01	+ 0.16	−47.45	331 20 6.88	45.334	− 32.6	56.4	9 35	.....	.. ..	....
19	π Leonis	11	55 45.82	+ 0.17	−47.39	329 30 5.70	47.394	− 35.1	56.9	9 54	.....	.. ..	....
	February 13, B.												
20	α Delphini	11	35 46.95	+ 0.12	−47.39	336 38 3.32	45.797	− 26.0	56.1	20 34	.....	.. ..	....
21	ε Cygni	11	42 57.07	− 0.07	-47.39	354 36 2.72	47.762	− 5.6	55.5	20 42	.....	.. ..	....
22	ζ Cygni	11	9 28.03	− 0.03	−47.40	350 49 43.75	46.670	− 9.6	55.8	21 8	.....	.. ..	....
23	ε Pegasi	11	40 3.72	+ 0.15	−47.26	330 25 57.45	47.251	− 33.9	56.2	21 39	.....	.. ..	....
	February 14, B.												
24	Sun I, S	11	51 8.51	+ 0.31	**−47.37**	307 46 1.38	46.235	−1 17.0	**55.7**	21 50 21.45	+66.84	−13 15 54.4	....
25	Sun II, N	11	53 22.18	+ 0.31	**−47.37**	308 18 2.58	47.655	−1 15.5	**55.7**	21 52 35.12	−66.83	−12 43 28.5	....
26	Mercury C, C	11	9 52.48	+ 0.31	**−47.37**	307 42 1.92	44.630	−1 17.1	**55.7**	22 9 5.42	0.00	−13 20 26.9	....
27	α Andromedæ	11	4 0.81	− 0.02	−47.36	349 34 3.15	43.988	− 10.8	55.7	0 3	.....	.. ..	....
28	Venus I, C	11	7 22.39	+ 0.20	**−47.39**	320 58 2.40	44.306	− 47.9	**55.7**	0 6 35.20	+ 0.46	− 0 4 3.5	....
29	π Andromedæ	11	32 20.29	− 0.07	-47.41	354 12 1.88	43.342	− 6.0	55.1	0 31	.....	.. ..	....
30	μ Andromedæ	11	52 0.20	− 0.12	-47.41	358 58 2.38	47.204	− 1.0	56.5	0 51	.....	.. ..	....
31	β Andromedæ	11	4 56.07	− 0.09	−47.40	356 6 1.55	47.309	− 4.0	55.0	1 4	.....	.. ..	....
32	α Ursæ Minoris	8	23 26.22	−21.4	[−46.76]	49 46 4.35	47.204	+1 10.0	[56.3]	1 22	.....	.. ..	....
	February 14, La.												
33	ε Cygni	11	42 57.18	− 0.06	−47.50	354 36 1.85	47.726	− 5.4	56.0	20 42	.....	.. ..	....
34	ζ Cygni	10	9 28.12	0.02	−47.49	350 50 1.40	45.761	− 9.3	56.4	21 8	.....	.. ..	....
	February 15, La.												
35	Sun I, S	11	55 2.30	+ 0.27	**−47.49**	308 6 2.08	47.700	−1 13.3	**55.7**	21 54 15.08	+66.66	−12 55 21.8	....
36	Sun II, N	11	57 15.62	+ 0.27	**−47.49**	308 37 56.80	49.442	−1 11.9	**55.7**	21 56 28.40	−66.66	−12 22 56.2	....
37	Mercury C, C	11	16 50.74	+ 0.27	**47.49**	308 25 56.02	43.226	−1 12.3	**55.5**	22 16 3.52	0.00	−12 36 54.6	....
38	α Pegasi	11	0 34.18	+ 0.10	−47.31	335 42 0.92	43.726	− 25.8	54.8	22 59	.....	.. ..	....
39	α Andromedæ	11	4 0.89	− 0.01	−47.46	349 34 0.98	43.993	− 10.4	54.1	0 3	.....	.. ..	....
40	Venus I, C	6	11 43.83	+ 0.19	**−47.47**	321 30 0.80	42.798	− 45.2	**54.6**	0 10 56.55	+ 0.52	+ 0 27 29.9	....
41	Venus II	5	11 44.70	+ 0.19	**− 47.47**	... .	......	....	....	0 10 57.42	− 0.35	.. ..	....
42	β Ceti	11	39 21.85	+ 0.31	−47.47	302 30 0.18	46.220	−1 28.7	55.1	0 38	.....	.. ..	....
43	μ Andromedæ	11	52 0.24	− 0.10	−47.48	358 58 2.58	47.058	− 1.0	54.0	0 51	.....	.. ..	....
44	β Andromedæ	11	4 56.10	− 0.07	−47.47	356 6 2.40	47.224	− 3.8	54.5	1 4	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
8 5 31	29.63	60.2	59.3
13 9	29.61	58.0	58.3
13 36	29.62	58.6	58.1
9 5 53	30.125	38.0	36.1
6 37	30.15	37.1	35.6
13 8 59	29.89	37.9	36.1
10 0	29.915	36.8	35.2
20 31	30.11	38.2	35.3
14 21 53	30.095	40.2	38.2
22 16	30.085	40.5	38.9
23 52	30.04	43.6	42.7
0 45	30.02	44.0	43.1
1 29	30.02	44.1	43.1
20 47	29.71	42.6	44.2
15 21 57	29.66	47.5	49.0
22 20	29.65	48.9	50.6
22 57	29.64	50.0	52.1
0 14	29.635	53.6	55.6
1 9	29.64	55.6	57.7

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2.	Bisections at III, IV, V.
5, 17, 21, 25, 36.	Bisections at VI, VII.
6.	Bisections at c_5, c_4, c_3, c_2, c_1.
10.	Bisections at II, III, IV, V, VI.
16.	Bisections at I, II, III.
20, 27, 29, 39.	Bisections at II, VI, VII.
20.	Z. D. thread B used.
24, 35.	Bisections at I, II.
32.	Bisections at c_1, c_2, c_3, c_4, c_5.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+15 42.3	+15 18.1	...	+31 0.4
10	+16 6.9	+15 8.5	...	+31 15.4
16	+25 56.1	−14 48.8	+ 1.2	+11 8.5
17	+26 20.9	+14 48.8	...	+41 9.7
24	+ 7.0	+16 13.0	...	+16 20.0
25	+ 7.0	−16 12.9	...	−16 5.9
26	+ 5.1	....	0.0	+ 5.1
28	+ 4.5	....	+ 0.1	+ 4.6
35	+ 7.0	+16 12.8	...	+16 19.8
36	+ 7.0	−16 12.8	...	−16 5.8
37	+ 5.1	....	0.0	+ 5.1
40	+ 4.4	....	+ 0.2	+ 4.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	February 18, Ei.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ Aquilæ	10	42 18.88	+ 0.30	−48.51	331 24 1.82	44.175	— 33.6	56.4	19 41	.....	.. ..	....
2	ε Cygni	8	42 58.40	0.00	−48.72	354 36 1.80	47.721	— 5.7	56.4	20 42	.....	.. ..	....
3	ζ Cygni	8	9 29.33	+ 0.06	−48.72	350 50 1.65	45.783	— 9.8	56.9	21 8	.....	.. ..	....
	February 19, Ei.												
4	Sun I, N	11	10 31.52	+ 0.51	**−48.71**	310 2 0.92	49.060	—1 12.6	**56.5**	22 9 43.32	+66.29	—10 58 56.8	....
5	Sun II, S	11	12 44.10	+ 0.51	**−48.71**	309 30 0.85	48.118	—1 14.0	**56.5**	22 11 55.90	—66.29	—11 31 20.6	....
6	α Andromedæ	11	4 2.05	+ 0.08	−48.74	349 34 1.08	44.084	— 11.2	56.4	0 3	.....	.. ..	....
7	Venus I, C	10	29 8.18	+ 0.38	**−48.79**	323 36 1.45	42.969	— 44.9	**56.5**	0 28 19.77	+ 0.47	+ 2 33 32.2	....
8	β Ceti	11	39 22.93	+ 0.58	−48.85	302 30 0.50	46.675	—1 35.2	57.4	0 38	.....	.. ..	....
9	μ Andromedæ	7	52 1.48	— 0.08	−48.79	358 58 0.68	47.300	— 1.0	55.9	0 51	.....	.. ..	....
10	β Andromedæ	11	4 57.35	— 0.02	48.82	356 5 59.98	47.416	— 4.1	56.1	1 4	.....	.. ..	....
11	α Ursæ Minoris	9	23 33.27	—33.22	[—46.29]	49 45 58.18	47.399	+1 12.1	[57.0]	1 22	.....	.. ..	....
12	θ Virginis	10	5 37.31	+ 0.52	—49.11	316 24	.....	....	....	13 4	.....	.. ..	....
13	α Ursæ Minoris S. P.	8	22 25.66	+35.10	[—47.34]	52 12 1.40	47.879	+1 20.4	[58.5]	1 22	.....	.. ..	....
14	m Virginis	10	37 12.60	+ 0.55	−49.08	312 50 2.08	45.218	—1 7.0	58.2	13 36	.....	.. ..	....
15	Moon II, S	11	7 16.53	+ 0.65	**−49.08**	303 44 1.20	43.238	—1 33.2	**58.6**	14 6 28.10	—64.76	17 19 13.3	....
16	λ Virginis	11	14 32.51	+ 0.60	−49.07	308 8 1.65	43.728	—1 19.3	58.5	14 13	.....	.. ..	....
17	α² Libræ	11	46 11.20	+ 0.62	−49.05	305 26 14.68	40.727	—1 27.6	58.9	14 45	.....	.. ..	....
18	β Libræ	11	12 27.87	+ 0.56	−49.07	312 0 0.82	48.961	—1 9.3	58.8	15 11	.....	.. ..	....
	February 20, Br.												
19	ε Bootis	11	41 28.61	+ 0.12	−49.78	348 30 5.00	46.751	— 12.3	53.8	14 40	.....	.. ..	....
20	Moon II, S	11	59 9.11	+ 0.63	**−49.81**	300 34 4.68	43.854	—1 42.9	**54.3**	14 58 19.93	—66.78	—20 29 3.4	....
21	β Libræ	11	12 28.66	+ 0.52	−49.79	312 0 5.05	48.388	—1 7.6	53.8	15 11	.....	.. ..	....
22	α Serpentis	11	40 11.50	+ 0.36	−49.77	327 46 4.65	44.376	— 38.5	54.3	15 39	.....	.. ..	....
23	ε Coronæ Borealis	11	54 17.86	+ 0.13	−49.92	348 10 5.65	47.858	— 12.8	55.2	15 53	.....	.. ..	....
	February 22, B.												
24	β Herculis	11	26 47.31	+ 0.11	−51.01	342 44 7.05	43.098	— 18.2	53.1	16 25	.....	.. ..	....
25	ζ Ophiuchi	11	32 31.26	+ 0.37	—50.99	310 40 6.20	45.211	—1 8.0	51.9	16 31	.....	.. ..	....
26	Moon II, S	11	52 10.44	+ 0.49	**—50.96**	297 12 5.68	46.439	—1 53.3	**52.4**	16 51 19.97	—70.57	—23 50 21.3	....
27	η Ophiuchi	11	5 30.55	+ 0.41	—51.02	305 26 6.30	45.549	—1 22.1	52.7	17 4	.....	.. ..	....
28	α¹ Herculis	11	10 56.95	+ 0.17	−50.84	335 32 6.75	43.101	— 26.6	51.9	17 10	.....	.. ..	....
	February 25, Ei.												
29	δ Aquilæ	11	21 19.45	+ 0.38	−51.79	323 56 7.35	46.686	— 45.1	53.6	19 20	.....	.. ..	....
30	β Cygni	11	27 33.43	+ 0.09	—51.99	348 46 7.15	44.935	— 12.3	53.6	19 26	.....	.. ..	....
31	Moon, II	11	56 19.75	+ 0.61	**—51.93**	302 42	......	....	....	19 55 28.43	—71.82	.. ..	....
32	θ Aquilæ	10	7 0.84	+ 0.42	−51.99	319 54 6.78	47.215	— 52.0	52.7	20 6	.....	.. ..	....
	February 26, Ei.												
33	Sun I, S	11	37 14.35	+ 0.50	**—52.02**	312 4 7.22	45.955	—1 7.9	**53.1**	22 36 22.83	+65.60	— 8 57 42.3	....
34	Sun II, N	11	39 25.56	+ 0.50	**—52.02**	312 36 6.60	47.325	—1 6.6	**53.1**	22 38 34.04	—65.61	— 8 25 19.4	....
35	α Andromedæ	11	4 5.36	+ 0.08	—52.08	349 34 7.52	43.516	— 11.2	53.2	0 3	.....	.. ..	....
36	γ Pegasi	11	8 57.34	+ 0.26	—52.03	335 40 6.70	42.415	— 27.6	53.1	0 8	.....	.. ..	....
37	Venus I, C	11	59 32.23	+ 0.35	**—52.09**	327 14 6.42	42.880	— 39.3	**53.1**	0 58 40.49	+ 0.48	+ 6 11 44.4	...
38	β Andromedæ	8	5 0.58	— 0.03	—52.12	356 6 5.92	46.950	— 4.1	52.6	1 4	.....	.. ..	....
	February 26, Br.												
39	β Cygni	11	27 34.06	+ 0.05	−52.56	348 46 8.88	44.915	— 12.6	54.8	19 26	....	.. ..	....
40	γ Aquilæ	9	42 22.95	+ 0.28	—52.39	331 24 8.20	43.798	— 34.8	55.1	19 41	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
18 19 37	29.81	21.0	19.0
20 35	29.825	23.5	20.6
21 35	29.83	25.0	22.9
19 22 13	29.83	25.8	23.4
0 10	29.83	27.0	25.4
0 59	29.825	28.0	25.9
1 33	29.83	27.0	25.9
13 30	29.98	19.0	17.9
14 20	30.00	18.5	16.8
14 56	30.00	18.0	16.1
15 28	30.01	17.0	15.7
20 14 32	29.93	27.0	27.0
15 18	29.93	26.5	25.9
15 44	29.93	26.0	25.0
15 58	29.925	26.0	24.9
22 16 22	29.25	36.3	35.0
17 14	29.265	36.0	35.1
25 19 26	29.76	19.2	16.4
20 12	29.76	20.5	17.0
26 22 39	29.77	23.6	20.9
0 2	29.77	25.3	22.3
0 54	29.79	27.5	23.9
1 18	29.795	26.0	23.0
19 31	30.325	13.9	11.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3. Bisections at I, VI, VII.
4, 33. Bisections at I, II.
5, 9, 32, 34, 38. Bisections at VI, VII.
11. Bisections at c_1, c_2, c_3, c_4, c_5.
13. Bisections at c_5, c_4, c_3, c_2, c_1.
14, 29. Bisections at I, II, VII.
15. Bisections at II, IV, VI.
17. Bisections at II, VI, VII.
20, 26. Bisections at II, III, IV, V, VI.
36. Bisection at VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 6.8	—16 11.8	...	—16 5.0
5	+ 6.9	+16 11.9	...	+16 18.8
7	+ 4.4	....	+ 0.2	+ 4.6
15	+45 33.5	+15 0.9	...	+60 34.4
20	+47 42.2	+15 10.8	...	+62 53.0
26	+50 44.9	+15 37.7	...	+66 22.6
33	+ 6.6	+16 11.4	...	+16 18.0
34	+ 6.5	—16 11.4	...	—16 4.9
37	+ 4.1	....	+ 0.2	+ 4.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Aquilæ..........	11	46 46.84	+ 0.30	—52.36	329 38 8.72	44.166	— 37.4	54.7	19 45	.....	.. ..	....
2	Moon II.........	11	57 29.79	+ 0.55	—**52.49**	307 12	......	....	....	20 56 37.85	—71.11	.. ..	....
	February 27, Br.												
3	Sun I............	9	41 0.85	+ 0.51	—**52.55**	312 42	......	....	....	22 40 8.81	+65.61	.. ..	....
4	Sun II...........	11	43 12.08	+ 0.51	—**52.55**	... .	......	....	....	22 42 20.04	—65.62	.. ..	....
5	Mercury C, C....	11	36 41.94	+ 0.46	—**52.58**	318 24 7.10	42.516	— 55.8	**53.9**	23 35 49.82	+ 0.03	— 2 38 39.1	....
6	α Andromedæ	11	4 5.90	+ 0.09	—52.63	349 34 7.62	43.515	— 11.5	53.2	0 3	.....	.. ..	....
7	Venus I, C........	11	3 52.75	+ 0.38	**52.64**	327 44 6.22	45.236	— 39.4	**53.5**	1 3 0.49	+ 0.49	+ 6 42 28.8	....
8	α Ursæ Minoris....	8	23 35.72	—34.48	[—53.07]	49 46 8.25	46.540	+1 14.1	[54.1]	1 22	.....	.. ..	....
9	β Arietis	11	50 0.18	+ 0.23	—52.71	341 20 7.35	46.645	— 21.0	53.2	1 49	.....	.. ..	....
10	α Arietis	11	2 25.41	+ 0.19	—52.60	344 0 8.02	47.222	— 17.8	53.9	2 1	.....	.. ..	....
	March 3, Br.												
11	α Andromedæ	11	4 7.68	+ 0.05	—54.39	349 34 6.65	43.536	— 10.9	53.7	0 3	.....	.. ..	....
12	γ Pegasi...........	11	8 59.64	+ 0.19	—54.27	335 40 6.92	42.192	— 26.8	53.3	0 8	.....	.. ..	....
13	Moon I..........	11	51 17.05	+ 0.23	—**54.35**	330 46	......	....	....	0 50 22.93	+69.98	.. ..	....
14	β Andromedæ	11	5 2.86	— 0.03	—54.45	356 6 5.95	46.849	— 4.0	53.2	1 4	.....	.. ..	....
15	α Ursæ Minoris....	8	23 29.30	26.57	[57.47]	49 46 8.32	46.708	+1 10.1	[54.4]	1 22	.....	.. ..	....
16	β Arietis	11	50 1.86	+ 0.14	—54.34	341 20 6.42	46.669	— 19.9	54.2	1 49	.....	.. ..	....
17	α Arietis	11	2 27.18	+ 0.11	—54.33	344 0 6.80	47.172	— 16.9	53.0	2 1	.....	.. ..	....
18	α Canum Venat....	11	52 18.31	+ 0.06	—54.41	359 52 6.82	45.314	— 0.1	[55.1]	12 51	.....	.. ..	....
19	ε Virginis	11	58 8.50	+ 0.22	—54.14	332 30 6.85	47.980	— 31.3	[55.4]	12 57	.....	.. ..	....
20	α Ursæ Minoris S. P.	8	22 32.66	+26.77	[—54.46]	52 12 8.12	47.696	+1 18.0	[56.6]	1 22	.....	.. ..	....
21	ζ Virginis	11	30 32.26	+ 0.31	—54.19	320 56 6.15	46.336	— 49.0	[55.2]	13 29	.....	.. ..	....
22	η Bootis...........	11	50 51.85	+ 0.16	—54.21	339 54 7.85	47.861	— 22.1	[55.7]	13 49	.....	.. ..	....
	March 7, B.												
23	α Andromedæ	11	3 13.45	— 0.08	— 0.03	349 34 5.88	43.508	— 10.9	53.1	0 3	.....	.. ..	....
24	Mercury C, C....	11	15 13.95	+ 0.14	— **0.06**	324 36 6.70	44.579	— 42.0	**53.0**	0 15 **14.03**	+ 0.09	+ 3 34 14.6	....
25	β Andromedæ	11	4 8.51	— 0.16	0.00	356 6 5.68	46.830	— 4.0	53.3	1 4	.....	.. ..	.. .
26	α Ursæ Minoris....	8	22 26.76	—24.67	[+ 1.23]	49 46 7.90	46.654	+1 10.1	[54.1]	1 22	.....	.. ..	....
27	Venus I, C.......	11	37 48.95	+ 0.08	— **0.01**	331 44 6.02	44.065	— 31.7	**53.0**	1 37 49.02	+ 0.52	+10 42 14.3	....
28	β Arietis	11	49 7.67	0.00	— 0.05	341 20 6.25	46.478	— 19.9	52.3	1 49	.....	.. ..	....
29	α Arietis	11	1 32.94	— 0.02	— 0.01	344 0 6.02	47.177	— 16.9	53.4	2 1	.....	.. ..	....
30	ε Tauri	11	22 48.03	+ 0.07	+ 0.12	339 58 6.38	47.674	— 21.5	54.3	4 22	.....	.. ..	....
31	α Tauri	11	30 12.35	+ 0.09	+ 0.10	337 20 6.00	44.561	— 24.7	53.6	4 30	.....	.. ..	....
32	Moon I, S	11	47 49.15	+ 0.04	+ **0.13**	343 6 6.22	46.049	— 18.0	**53.6**	4 47 49.32	+70.02	+22 5 5.7	....
33	11 Orionis..........	11	58 52.76	+ 0.10	+ 0.19	336 18 6.58	42.604	— 26.1	53.3	4 58	.....	.. ..	....
34	β Eridani	11	2 57.24	+ 0.24	+ 0.09	315 48 6.28	47.531	— 57.7	53.1	5 2	.....	.. ..	....
	March 10, Br.												
35	β Andromedæ	6	4 8.53	— 0.07	[+ 0.13]	356 6 5.70	46.790	— 3.8	[54.8]	1 4	.....	.. ..	....
36	α Ursæ Minoris....	7	22 22.23	—20.96	[+ 0.65]	49 46 7.75	46.813	+1 7.5	[55.2]	1 22	.....	.. ..	....
37	δ Geminorum	11	14 11.53	+ 0.02	+ 0.13	343 12 5.42	42.500	— 17.5	56.9	7 14	.....	.. ..	....
38	α^2 Geminorum	..	.. ..	.....	.....	353 8 5.62	43.500	— 6.9	55.6	7 28	.....	.. ..	....
39	Moon N	..	.. ..	.....	.....	339 34 2.55	44.626	— 21.6	**56.3**	7 34	.....	+18 32 28.4	....
40	ζ^1 Cancri	10	6 31.20	+ 0.05	+ 0.13	338 58 3.58	45.589	— 22.3	55.6	8 6	.....	.. ..	....
41	β Cancri	6	11 7.90	+ 0.10	+ 0.17	330 30 2.25	48.255	— 32.8	56.4	8 11	.....	.. ..	....
42	η Cancri ,.........	11	26 58.35	+ 0.03	+ 0.08	341 48 2.65	45.170	— 19.1	56.9	8 26	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
26	19	54	30.34	14.5	11.1
27	22	43	30.335	19.0	16.7
	23	40	30.33	21.1	18.8
	0	11	30.33	22.4	19.4
	0	59	30.335	22.9	20.9
	1	31	30.33	22.9	21.3
	2	7	30.33	23.1	22.3
3	23	56	29.99	40.0	40.7
	0	13	29.995	41.9	41.0
	1	9	30.00	42.5	41.8
	1	31	30.00	42.2	41.9
	2	9	30.01	42.6	42.4
	12	51	30.105	33.0	34.3
	13	2	30.11	34.0	35.3
	13	54	30.10	32.2	32.0
7	0	0	30.085	44.2	42.9
	1	1	30.09	45.8	43.4
	1	32	30.10	46.0	44.2
	2	7	30.10	46.0	44.9
	4	21	30.14	45.0	43.5
	5	7	30.15	43.2	41.3
10	1	8	29.615	54.5	54.5
	2	3	29.635	54.4	53.7
	7	25	29.66	46.0	46.5
	7	56	29.66	45.6	45.7
	8	36	29.66	44.9	44.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

8, 15, 26.	Bisections at c_1, c_2, c_3, c_4, c_5.
20.	Bisections at c_5, c_4, c_3, c_2, c_1.
28, 35.	Bisections at I, II.
29.	Bisections at I, II, VI.
32, 39.	Bisections at II, III, IV, V, VI.
36.	Bisections at c_2, c_3, c_4.
37.	Bisections at II, VI, VII.
41.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 5.1	....	+ 0.2	+ 5.3
7	+ 4.1	....	+ 0.2	+ 4.3
24	+ 5.4	....	+ 0.7	+ 6.1
27	+ 3.8	....	+ 0.2	+ 4.0
32	+16 16.3	+15 31.7	...	+31 48.0
39	+18 53.1	—14 57.7	...	+ 3 55.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Virginis	10	57 14.30	+ 0.11	+ 0.27	332 30 4.58	48.182	— 30.4	56.3	12 57	.....	.. ..	....
2	θ Virginis	11	4 48.77	+ 0.21	+ 0.10	316 2 4.65	43.004	— 56.3	56.8	13 4	.....	.. ..	....
3	α Ursæ Minoris S. P.	8	21 41.88	+21.61	[— 1.84]	52 12 5.35	48.090	+1 15.4	[57.1]	1 22	.....	.. ..	....
4	ζ Virginis	8	29 38.27	+ 0.18	+ 0.06	320 56 4.15	46.392	— 47.2	55.9	13 29	.....	.. ..	....
5	η Bootis	11	49 57.80	+ 0.06	+ 0.09	339 54 5.18	48.018	- 21.3	56.7	13 49	.....	.. ..	....
	March 11, Ei.												
6	ε Cygni	11	42 10.12	— 0.06	+ 0.04	354 36 5.72	47.198	— 5.8	53.8	20 42	.....	.. ..	....
7	ζ Cygni	11	8 41.02	— 0.01	0.00	350 50 8.65	45.070	— 10.0	54.1	21 8	.....	.. ..	....
8	β Aquarii	10	26 17.74	+ 0.30	+ 0.27	315 2 6.52	42.965	—1 2.1	54.0	21 26	.....	.. ..	....
9	ε Pegasi	11	39 16.54	+ 0.18	+ 0.21	330 26 6.78	46.565	— 35.2	53.0	21 39	.....	.. ..	....
	March 12, Ei.												
10	Sun I, N	11	28 24.75	+ 0.28	+ **0.11**	318 0 5.92	45.735	— 55.5	**54.0**	23 28 25.14	+64.83	— 3 1 36.3	....
11	Sun II, S	11	30 34.41	+ 0.28	+ **0.11**	317 28 10.50	45.025	— 56.5	**54.0**	23 30 34.80	—64.83	— 3 33 50.6	....
12	α Andromedæ	11	3 13.27	0.00	+ 0.07	349 34 7.30	43.470	— 11.3	54.1	0 3	.....	.. ..	....
13	γ Pegasi	11	8 5.19	+ 0.14	+ 0.22	335 40 6.72	42.300	— 27.8	54.9	0 8	.....	.. ..	....
14	Mercury I, C	11	27 10.92	+ 0.21	+ **0.11**	327 0 5.70	48.126	— 39.8	**54.0**	0 27 11.24	+ 0.28	— 5 59 23.0	....
15	β Ceti	11	38 34.08	+ 0.38	+ 0.09	302 30 5.70	46.418	—1 36.0	54.4	0 38	.....	.. ..	....
16	β Andromedæ	11	4 8.35	— 0.08	+ 0.04	356 6 6.82	46.791	— 4.1	54.5	1 4	.....	.. ..	....
17	α Ursæ Minoris	8	22 28.09	—28.50	[+ 0.20]	49 46 8.05	46.513	+1 12.5	[55.2]	1 22	.....	.. ..	....
18	β Arietis	11	49 7.35	+ 0.09	+ 0.13	341 20 7.22	46.616	— 20.6	54.1	1 49	.....	.. ..	....
19	Venus I, C	11	59 43.81	+ 0.16	+ **0.11**	334 6 6.15	45.581	— 29.6	**54.0**	1 59 44.08	+ 0.54	+13 4 44.6	....
20	β Trianguli	11	3 36.25	— 0.07	+ 0.09	355 32 5.18	45.142	— 4.7	53.5	2 3	.....	.. ..	....
21	θ Aurigæ	11	52 56.58	— 0.06	+ 0.01	358 14 6.10	43.132	— 1.8	[55.3]	5 52	.....	.. ..	....
22	δ Ursæ Minoris S. P.	3	4 7.83	+10.23	[+ 0.47]	54 22 8.08	48.164	+1 25.2	[56.1]	6 4	.....	.. ..	....
23	ε Geminorum	11	37 49.08	+ 0.08	+ 0.06	346 14 7.15	47.985	— 14.9	[54.7]	6 37	.....	.. ..	....
24	51 H. Cephei	11	54 21.04	—11.41	[— 0.37]	48 12 7.92	46.082	+1 8.4	[54.7]	6 54	.....	.. ..	....
25	63 Aurigæ	11	4 49.72	— 0.10	— 0.02	0 30 6.65	44.902	— 0.6	[54.3]	7 4	.....	.. ..	....
26	ε Hydræ	11	41 31.18	+ 0.23	+ 0.13	327 48 5.90	46.640	— 38.4	55.8	8 41	.....	.. ..	....
27	κ Cancri	11	2 22.25	+ 0.20	+ 0.24	332 6 6.50	43.479	— 32.4	56.0	9 2	.....	.. ..	....
28	Moon I, N	11	11 41.58	+ 0.21	+ **0.13**	332 22 13.68	43.955	— 32.0	**55.7**	9 11 41.92	+62.30	+11 20 17.0	....
29	α Hydræ	11	22 42.75	+ 0.33	+ 0.03	312 48 7.32	45.731	—1 6.0	55.2	9 22	.....	.. ..	....
30	ο Leonis	11	35 51.39	+ 0.20	— 0.13	331 22 7.48	45.285	— 33.4	55.8	9 35	.....	.. ..	....
	March 13, Br.												
31	α Ursæ Minoris	10	22 30.20	—27.24	[— 2.74]	49 46 8.30	46.723	— 1 9.0	[56.2]	1 22	.....	.. ..	....
32	β Arietis	11	49 7.83	+ 0.14	[— 0.41]	341 20 6.48	46.670	— 19.5	[55.0]	1 49	.....	.. ..	....
33	α Arietis	4	1 33.04	+ 0.11	[— 0.30]	344 0 6.48	47.185	— 16.6	[53.7]	2 1	.....	.. ..	....
34	θ Virginis	..	.. ..	.....	.....	316 2 6.60	42.812	57.0	[53.1]	13 4	.....	.. ..	....
35	α Ursæ Minoris S. P.	8	21 37.05	+24.97	[— 2.09]	52 12 7.38	47.962	—1 16.5	[56.9]	1 21	.....	.. ..	....
36	ζ Virginis	..	.. ..	.....	.....	320 56 6.58	46.288	— 48.0	[56.3]	13 29	.....	.. ..	....
37	η Bootis	10	49 58.15	+ 0.12	[— 0.36]	339 54 6.32	47.968	— 21.6	[56.5]	13 49	.....	.. ..	....
38	d Bootis	11	5 53.14	+ 0.07	[— 0.29]	346 34 6.20	47.578	14.1	[56.6]	14 5	.....	.. ..	....
	March 14, Ei.												
39	β Andromedæ	11	4 8.98	— 0.14	[— 0.54]	356 6 5.42	46.890	— 3.9	[55.5]	1 4	.....	.. ..	....
40	α Ursæ Minoris	8	22 25.12	—24.44	[— 1.05]	49 46 8.45	46.638	+1 9.2	[55.2]	1 21	.....	.. ..	....
	March 16, Ei.												
41	β Andromedæ	11	4 9.74	+ 0.04	[— 1.48]	356 6 7.02	46.742	— 4.0	[54.4]	1 4	.....	.. ..	....
42	α Ursæ Minoris	8	22 25.35	—26.62	[— 0.10]	49 46 8.40	46.546	+1 10.0	[54.8]	1 21	.....	.. ..	....
43	π Virginis	11	55 49.19	+ 0.30	— 1.65	328 12 5.70	43.818	— 38.1	56.4	11 55	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
10 12 54	29.62	40.9	41.7
13 39	29.62	42.5	43.2
13 55	29.62	42.8	42.8
11 20 40	29.91	18.3	14.7
21 11	29.91	19.5	16.0
21 45	29.92	21.0	17.1
12 23 31	29.93	23.0	21.1
0 0	29.92	24.5	21.9
0 43	29.92	27.5	23.5
1 17	29.92	29.0	24.3
2 9	29.90	28.5	25.4
5 58	29.90	27.5	26.3
7 6	29.91	26.0	26.2
8 37	29.905	24.0	25.0
9 32	29.90	24.0	24.0
13 0 58	29.615	41.7	42.2
2 4	29.605	45.2	45.9
13 2	29.65	37.0	36.8
14 11	29.655	35.0	34.9
14 0 58	29.75	45.0	44.7
1 28	29.75	45.5	43.9
16 1 6	29.44	36.0	34.5
1 27	29.45	36.0	33.7
11 52	29.73	21.0	19.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 11, 34, 38. Bisections at VI, VII.
3, 22, 35. Bisections at c_5, c_4, c_3, c_2, c_1.
4, 32, 33. Bisections at II, VI, VII.
8, 15. Bisections at I, VI, VII.
10. Bisections at I, II.
17. Bisections at c_2, c_3, c_4.
28. Bisections at b_1, c_1, c_3, c_5, d_3.
24, 31, 42. Bisections at c_1, c_2, c_3, c_4, c_5.
40. Bisections at c_1, c_2, c_3, c_5.
43. Bisections at I, II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
10	+ 5.9	—16 7.1	...	—16 1.2
11	+ 6.0	+16 7.1	...	+16 13.1
14	+ 5.9	.. ....	+ 1.3	+ 7.2
19	+ 3.6	.. ....	+ 0.2	+ 3.8
28	+24 52.1	—14 46.7	...	+10 5.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Corvi	11	5 3.13	+ 0.52	− 1.73	298 58 6.48	47.169	−1 50.5	55.6	12 5	.....	.. ..	....
2	Moon II, S	11	15 45.25	+ 0.42	− **1.70**	313 28 6.82	47.306	−1 4.7	**55.8**	12 15 43.97	−61.44	− 7 33 18.3	....
3	δ^2 Corvi	11	24 45.58	+ 0.47	− 1.67	305 4 5.58	46.942	−1 27.3	55.6	12 24	.....	.. ..	....
4	β Corvi	11	29 12.25	+ 0.53	− 1.73	298 12 4.98	44.965	−1 54.1	55.5	12 29	.....	.. ..	....
5	α Ursæ Minoris s. p.	8	21 28.48	+29.70	[− 0.24]	52 12 6.98	47.871	+1 19.5	[56.9]	1 21	.....	.. ..	....
6	*m* Virginis	11	36 25.89	+ 0.42	− 1.71	312 50 5.60	44.701	−1 6.2	[55.1]	13 36	.....	.. ..	....
	March 17, Br.												
7	β Andromedæ	11	4 10.50	+ 0.02	[− 2.22]	356 6 6.38	46.816	− 4.1	[55.3]	1 4	.....	.. ..	....
8	α Ursæ Minoris	8	22 29.29	−27.68	[− 3.38]	49 46 7.88	46.523	+1 12.6	[56.7]	1 21	.....	.. ..	....
9	β Arietis	11	49 9.55	+ 0.19	[− 2.21]	341 20 7.68	46.669	− 20.6	[56.0]	1 49	.....	.. ..	....
10	α Arietis	11	1 34.92	+ 0.17	[− 2.27]	344 0 7.48	47.287	− 17.5	[56.1]	2 1	.....	.. ..	....
11	η Virginis	11	14 52.25	+ 0.35	− 2.28	320 54 8.05	47.615	− 50.9	57.4	12 14	.....	.. ..	....
12	δ^2 Corvi	11	24 46.30	+ 0.47	− 2.39	305 4 7.12	47.049	−1 29.2	57.5	12 24	.....	.. ..	....
13	α Canum Venat.	11	51 26.48	− 0.06	− 2.36	359 52 7.10	45.484	− 0.1	[56.4]	12 51	.....	.. ..	....
14	Moon II, S	11	2 25.05	+ 0.45	− **2.27**	309 4 7.25	43.428	−1 17.3	**57.5**	13 2 23.23	−62.51	−11 58 46.6	....
15	α Ursæ Minoris, s. p.	8	21 36.74	+30.56	[− 9.24]	52 12 8.72	47.702	+1 21.2	[56.7]	1 21	.....	.. ..	....
16	ζ Virginis	11	29 40.38	+ 0.35	− 2.10	320 56 6.82	46.492	− 50.9	57.2	13 29	.....	.. ..	....
17	*m* Virginis	11	36 26.41	+ 0.42	− 2.22	312 50 10.00	44.768	−1 7.6	57.8	13 36	.....	.. ..	....
	March 19, Ei.												
18	κ Virginis	11	7 39.68	+ 0.26	− 3.47	311 14 5.58	42.778	−1 5.2	53.6	14 7	.....	.. ..	....
19	λ Virginis	11	13 47.95	+ 0.28	− 3.52	308 8 6.02	42.729	−1 12.8	53.7	14 13	.....	.. ..	....
20	Moon II, S	7	41 47.03	+ 0.32	− **3.53**	301 42 5.48	45.952	−1 32.4	**53.5**	14 41 43.82	−65.73	−19 20 11.0	....
21	α^2 Libræ	11	45 26.85	+ 0.29	− 3.62	305 24 6.15	46.582	−1 20.3	53.5	14 45	.....	.. ..	....
22	γ Scorpii	11	58 19.08	+ 0.34	− 3.52	296 10 4.42	43.172	−1 56.0	53.2	14 58	.....	.. ..	....
	March 20, Br.												
23	γ Scorpii	11	58 19.52	+ 0.46	− 4.05	296 10 4.92	43.676	−2 2.4	57.0	14 58	.....	.. ..	....
24	β Libræ	11	11 43.75	+ 0.38	− 3.99	312 0 6.58	48.282	−1 7.1	56.0	15 11	.....	.. ..	....
25	Moon II, S	11	35 16.61	+ 0.45	− **4.01**	299 12 4.82	43.279	−1 48.0	**56.9**	15 35 13.05	−67.52	−21 51 22.0	....
26	δ Scorpii	11	54 31.39	+ 0.45	− 4.01	298 42 5.72	46.625	−1 50.2	57.4	15 54	.....	.. ..	....
27	β^1 Scorpii	11	59 43.43	+ 0.43	− 4.00	301 30 5.15	47.012	−1 38.5	57.1	15 59	.....	.. ..	....
	March 20, Ei.												
28	ε Cygni	10	42 14.28	− 0.01	− 3.95	354 36 5.45	47.238	− 5.6	55.0	20 42	.....	.. ..	....
29	ε Pegasi	11	39 20.71	+ 0.20	− 3.82	330 26 6.05	46.618	− 34.3	54.3	21 39	.....	.. ..	....
30	α Aquarii	6	0 43.29	+ 0.26	− 4.03	320 14 5.48	43.525	− 50.3	54.3	22 0	.....	.. ..	....
	March 21, Ei.												
31	Sun I, S	9	1 21.22	+ 0.26	− **3.99**	321 0 7.20	47.970	− 48.7	**54.5**	0 1 17.49	+64.49	− 0 0 45.7	....
32	Sun II, N	11	3 30.20	+ 0.26	**3.99**	321 32 5.42	48.745	− 47.7	**54.5**	0 3 26.47	−64.49	+ 0 31 24.2	....
33	μ Andromedæ	5	51 16.48	− 0.06	− 4.01	358 58 5.85	46.660	− 1.0	54.1	0 51	.....	.. ..	....
34	β Andromedæ	11	4 12.37	− 0.03	− 4.05	356 6 5.05	46.882	− 4.0	54.3	1 4	.....	.. ..	....
35	α Arietis	11	1 36.71	+ 0.09	− 4.01	344 0 5.80	47.234	− 17.1	54.8	2 1	.....	.. ..	....
36	δ Ophiuchi	11	9 12.36	+ 0.32	− 4.06	317 36 6.68	43.481	− 56.0	56.2	16 9	.....	.. ..	....
37	α Scorpii	11	23 22.70	+ 0.47	− 4.02	294 50 5.28	46.645	−2 11.6	55.8	16 23	.....	.. ..	....
38	Moon II, S	11	31 19.68	+ 0.45	− **3.99**	297 42 5.02	49.721	−1 56.1	**55.9**	16 31 16.14	−69.09	−23 19 24.9	....
39	η Ophiuchi	11	4 44.32	+ 0.40	− 3.94	305 26 5.80	45.890	−1 25.9	56.0	17 4	.....	.. ..	....
40	θ Ophiuchi	11	15 57.89	+ 0.46	− 3.95	296 8 5.08	48.339	−2 4.2	55.6	17 15	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
16 12 37	29.73	20.5	19.7
1 30	29.73	21.0	19.3
17 0 58	29.84	26.5	23.5
1 29	29.85	25.6	22.9
2 5	29.86	26.1	22.8
12 9	29.98	15.0	13.8
12 47	29.98	14.1	13.4
13 44	29.97	14.0	13.4
19 14 5	29.40	48.0	48.0
15 0	29.40	48.5	47.7
20 14 53	29.82	30.5	28.8
15 16	29.83	30.4	28.2
15 44	29.845	30.0	28.0
16 4	29.85	29.9	27.9
20 40	29.98	32.0	30.8
21 35	30.00	34.0	31.0
22 13	30.00	35.0	31.9
21 0 1	30.00	36.2	33.7
0 47	29.99	35.0	33.0
1 47	29.97	38.5	34.9
2 42	29.98	37.5	34.2
16 6	30.02	26.0	25.1
17 3	30.00	27.0	25.2
17 23	30.02	27.0	25.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 14, 25, 38.	Bisections at II, III, IV, V, VI.
5, 15.	Bisections at c_5, c_4, c_3, c_2, c_1.
8.	Bisections at c_1, c_2, c_3, c_4, c_5.
10, 16, 28.	Bisections at II, VI, VII.
17, 30, 32, 33, 34.	Bisections at VI, VII.
20.	Bisections at I, III, IV, V, VII.
31.	Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+39 5.3	+14 47.1	...	+53 52.4
14	+42 2.3	+14 51.0	...	+56 53.3
20	+46 44.4	+15 3.4	...	+61 47.8
25	+48 26.5	+15 12.1	...	+63 38.6
31	+ 5.5	+16 4.9	...	+16 10.4
32	+ 5.5	−16 5.0	...	−15 59.5
38	+49 41.6	+15 22.7	...	+65 4.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	March 21, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Cygni	11	42 14.59	+ 0.10	−4.34	354 36 7.28	47.125	− 5.6	55.4	20 42	.....	.. ..	....
2	ζ Cygni	11	8 45.42	+ 0.13	−4.31	350 50 6.40	45.188	− 9.6	55.6	21 8	.....	.. ..	....
3	ε Pegasi...........	11	39 20.91	+ 0.30	−4.10	330 26 6.20	46.632	− 33.8	55.3	21 39	.....	.. ..	....
4	α Pegasi...........	11	59 51.13	+ 0.24	−4.18	335 42 5.28	43.374	− 26.7	54.5	22 59	.....	.. ..	....
	March 22, Br.												
5	Sun I, N	11	4 59.67	+ 0.34	**−4.29**	321 56 8.35	47.245	− 45.9	**54.0**	0 4 55.72	+64.48	+ 0 55 4.7	....
6	Sun II, S........	11	7 8.64	+ 0.34	**−4.29**	321 24 8.35	47.165	− 46.8	**54.0**	0 7 4.69	−64.49	+ 0 22 58.1	....
7	β Andromedæ	11	4 12.64	0.00	−4.35	356 6 5.60	46.705	− 3.9	53.4	1 4	.....	.. ..	....
8	α Ursæ Minoris....	7	22 31.14	−24.92	[−9.18]	49 46 6.95	46.538	+1 9.0	[54.1]	1 21	.....	.. ..	....
9	β Arietis	11	49 11.72	+ 0.15	−4.36	341 20 7.62	46.474	− 19.6	53.5	1 49	.....	.. ..	....
10	α Arietis	11	1 37.00	+ 0.12	−4.34	344 0 6.48	47.038	− 16.6	52.3	2 1	.....	.. ..	....
11	Venus I, S.......	11	44 10.25	+ 0.17	**−4.36**	338 28 5.70	43.078	− 22.8	**52.8**	2 44 6.06	+ 0.60	+17 26 4.1	....
12	Venus N.........	..	.. ..	.....	. ...	338 28 5.70	44.005	− 22.8	**52.8**	.. ..	.....	+17 26 21.9	....
13	α Ceti	11	57 7.91	+ 0.29	−4.31	324 44 4.50	43.388	− 40.7	53.5	2 57	.....	.. ..	....
14	η Ophiuchi........	11	4 44.86	+ 0.38	−4.43	305 26 6.00	45.702	−1 23.0	55.5	17 4	.....	.. ..	....
15	θ Ophiuchi	11	15 58.41	+ 0.44	−4.42	296 8 4.98	48.096	−1 59.9	55.1	17 15	.....	.. ..	....
16	b Ophiuchi........	11	20 22.11	+ 0.43	−4.47	296 58 4.95	44.778	−1 55.7	55.0	17 20	.....	.. ..	....
17	Moon II, S	11	29 27.75	+ 0.43	**−4.45**	297 30 5.10	42.849	−1 53.2	**55.1**	17 29 23.73	−70.20	−23 33 33.3	....
18	δ Ursæ Minoris....	11	4 35.25	− 7.23	[−5.54]	47 36 7.65	46.194	+1 5.1	[56.0]	18 4	.....	.. ..	....
19	η Serpentis	11	16 14.04	+ 0.31	−4.54	318 6 5.82	45.884	− 53.1	54.8	18 16	.....	.. ..	....
20	γ Lyræ............	11	55 17.67	+ 0.05	−4.58	353 34 5.52	45.077	− 6.6	54.7	18 55	.....	.. ..	....
21	ζ Aquilæ	11	0 54.35	+ 0.20	−4.45	334 44 6.38	45.632	− 27.9	55.7	19 0	.....	.. ..	....
	March 23, Br.												
22	ζ Cygni	11	8 46.21	0.00	−4.92	350 50 5.70	45.260	− 9.4	56.1	21 8	.....	.. ..	....
23	ε Pegasi...........	11	39 21.71	+ 0.17	−4.73	330 26 5.52	46.658	− 33.3	55.6	21 39	.....	.. ..	....
	March 24, Br.												
24	Sun I, S.........	11	12 16.92	+ 0.19	**−4.86**	322 12 9.10	44.592	− 45.3	**55.5**	0 12 12.25	+64.41	+ 1 10 13.6	....
25	Sun II, N	11	14 25.75	+ 0.19	**−4.86**	322 44 9.28	45.022	− 44.4	**55.5**	0 14 21.08	−64.42	+ 1 42 18.7	....
26	β Andromedæ	11	4 13.25	− 0.06	−4.90	356 6 5.28	46.800	− 3.9	55.2	1 4	.....	.. ..	....
27	α Ursæ Minoris....	7	22 21.51	−18.48	[−6.46]	49 46 5.84	46.635	+1 8.8	[55.1]	1 21	.....	.. ..	....
28	β Arietis	7	49 12.40	+ 0.05	−4.96	341 20	......	....	....	1 49	.....	.. ..	....
29	α Arietis	11	1 37.64	+ 0.03	−4.90	344 0 5.95	47.188	− 16.6	54.9	2 1	.....	.. ..	....
30	Venus I, S.......	11	53 9.15	+ 0.06	**−4.90**	339 16 6.28	42.485	− 21.9	**55.5**	2 53 4.31	+ 0.61	+18 13 51.6	....
31	Venus N	..	. .....	.....	.....	339 16 6.28	43.388	− 21.9	**55.5**	.. ..	.....	+18 14 8.9	....
32	α Ceti	11	57 8.53	+ 0.13	−4.79	324 44 5.12	43.480	− 40.9	55.7	2 57	.....	.. ..	....
	March 24, Ei.												
33	δ Ursæ Minoris S. P.	11	4 21.07	+ 6.70	[−4.80]	54 22 5.62	48.457	+1 21.4	[55.3]	18 4	.....	.. ..	....
34	μ Geminorum	11	17 1.45	+ 0.04	[−4.80]	343 34 5.48	48.489	− 17.1	[55.1]	6 16	.....	.. ..	....
35	51 H. Cephei	11	54 16.62	− 7.56	[−4.87]	48 12 5.98	46.389	+1 5.7	[55.1]	6 54	.....	.. ..	....
	March 26, Br.												
36	ζ Cygni	11	8 47.43	+ 0.09	−6.16	350 50 5.70	45.220	− 9.3	56.2	21 8	.....	.. ..	....
37	Moon II.........	11	26 34.65	+ 0.35	**−6.03**	310 0	......	....	....	21 26 28.97	−69.71	.. ..	....
38	ε Pegasi...........	11	39 22.92	+ 0.23	−5.94	330 26 5.60	46.652	− 32.9	56.1	21 39	.....	.. ..	....
39	α Pegasi...........	7	59 53.15	+ 0.20	−6.09	335 42 5.60	43.361	− 26.1	55.4	22 59	.....	.. ..	....
	March 27, Br.												
40	Sun I, N.........	10	23 12.63	+ 0.26	**−6.20**	323 53 59.70	47.255	− 42.0	**55.4**	0 23 6.69	+64.44	+ 2 52 58.8	....
41	Sun II, S	10	25 21.51	+ 0.26	**−6.20**	323 22 0.38	47.188	− 42.8	**55.4**	0 25 15.57	−64.44	+ 2 20 53.1	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
21	20	45	30.04	35.2	35.2
	21	43	30.02	39.1	39.1
	23	3	29.97	42.0	42.0
22	0	7	29.95	43.8	44.7
	0	59	29.93	45.9	46.9
	1	29	29.91	48.0	48.8
	2	7	29.89	50.4	50.2
	3	0	29.86	52.1	52.5
	16	58	29.80	38.5	38.3
	17	33	29.805	38.8	38.6
	18	20	29.80	38.9	38.0
	19	12	29.805	40.5	39.0
23	21	13	29.845	45.5	41.9
	21	44	29.84	45.3	42.2
24	0	12	29.85	47.2	45.6
	1	8	29.82	48.6	47.6
	2	7	29.795	51.0	48.9
	3	2	29.775	52.0	49.4
	6	9	29.78	47.5	45.6
	7	2	29.78	44.5	42.4
26	21	4	29.61	42.8	43.4
	21	43	29.62	44.9	44.7
	23	4	29.64	47.6	46.5
27	0	25	29.635	49.2	48.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 24, 40.	Bisections at I, II.
6, 16, 25, 41.	Bisections at VI, VII.
8.	Bisections at c_1, c_2, c_3, c_5.
11, 30.	Bisections at I, VII.
12, 31.	Bisections at II, VI.
17.	Bisections at II, III, IV, V, VI.
18, 27, 35.	Bisections at c_1, c_2, c_3, c_4, c_5.
20, 21, 22.	Bisections at II, VI, VII.
33.	Bisections at c_5, c_4, c_3, c_2, c_1.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 5.4	−16 3.3	...	−15 57.9
6	+ 5.5	+16 3.2	...	+16 8.7
11	+ 3.2	+ 9.1	...	+ 12.3
12	+ 3.2	− 9.1	+ 0.4	− 5.5
17	+50 27.8	+15 34.9	...	+66 2.7
24	+ 5.4	+16 2.5	...	+16 7.9
25	+ 5.3	−16 2.5	...	−15 57.2
30	+ 3.1	+ 8.9	...	+ 12.0
31	+ 3.1	− 8.9	+ 0.5	− 5.3
40	+ 5.2	−16 2.8	...	−15 57.6
41	+ 5.3	+16 2.8	...	+16 8.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Andromedæ	11	4 14.52	+ 0.04	− 6.27	356 6 5.42	46.764	− 3.9	55.2	1 4	.....	.. ..	....
2	α Ursæ Minoris....	8	22 24.28	−17.34	[−11.33]	49 46 7.60	46.542	+1 8.2	[55.4]	1 21	.....	.. ..	....
3	β Arietis	11	49 13.62	+ 0.16	− 6.29	341 20 6.18	46.592	− 19.4	55.0	1 49	.....	.. ..	....
4	α Arietis	11	1 38.88	+ 0.14	− 6.27	344 0 6.48	47.144	− 16.4	55.1	2 1	.....	.. ..	....
5	Venus I, N	11	6 41.56	+ 0.16	− **6.36**	340 24 5.88	44.985	− 20.4	**54.8**	3 6 35.36	+ 0.63	+19 22 41.1	....
6	Venus S.........	..	.. ..	.....	.....	340 24 5.88	44.092	− 20.4	**54.8**	.. ..	.....	+19 22 24.2	....
	March 27, Ei.												
7	ζ Cygni	11	8 47.87	+ 0.01	− 6.50	350 50 5.22	45.219	− 9.5	55.5	21 8	.....	.. ..	....
8	β Aquarii..........	..	.. ..	.....	.....	315 2 5.82	42.868	− 58.8	55.8	21 26	.....	.. ..	....
9	ε Pegasi...........	11	39 23.39	+ 0.14	− 6.30	330 26 5.55	46.652	− 33.4	55.5	21 39	.....	.. ..	....
10	α Aquarii..........	11	0 45.82	+ 0.20	− 6.36	320 14 5.12	43.482	− 49.0	55.8	22 0	.....	.. ..	....
11	Moon II.........	10	24 41.22	+ 0.23	− **6.40**	315 38	......	....	...	22 24 35.05	−69.42	.. ..	....
12	α Pegasi...........	11	59 53.55	+ 0.13	− 6.40	335 42 5.25	43.381	− 26.6	54.9	22 59	.....	.. ..	....
	March 28, Ei.												
13	Sun I, N	11	26 51.25	+ 0.20	− **6.47**	324 18 7.42	45.132	− 42.1	**55.4**	0 26 44.98	+64.42	+ 3 16 25.5	....
14	Sun II, S........	11	29 0.10	+ 0.20	− **6.47**	323 46 6.52	45.202	− 43.0	**55.4**	0 28 53.83	−64.43	+ 2 44 20.8	....
15	β Andromedæ	11	4 14.87	+ 0.02	− 6.60	356 6 4.42	46.786	− 3.9	54.7	1 4	.....	.. ..	....
16	α Ursæ Minoris....	8	22 16.62	−15.96	[− 5.33]	49 46 5.85	46.597	+1 9.4	[56.4]	1 21	.....	.. ..	....
17	β Arietis	10	49 13.86	+ 0.12	− 6.50	341 20 5.35	46.708	− 19.7	56.5	1 49	.....	.. ..	....
18	α Arietis	11	1 39.18	+ 0.11	− 6.54	344 0 4.80	47.194	− 16.7	54.2	2 1	.....	.. ..	....
19	α Ceti.............	11	57 10.10	+ 0.21	− 6.48	324 44 5.85	43.445	− 41.2	56.0	2 57	.....	.. ..	....
20	Venus I, N	11	11 13.16	+ 0.13	− **6.56**	340 46 4.50	44.830	− 20.3	**55.4**	3 11 6.73	+ 0.63	+19 44 38.1	....
21	Venus S.........	..	.. ..	.....	.....	340 46 4.50	43.942	− 20.3	**55.4**	.. ..	.....	+19 44 19.3	....
22	η Tauri	11	41 39.87	+ 0.09	− 6.53	344 48 6.45	48.225	− 15.7	54.9	3 41	.....	.. ..	....
23	δ Ursæ Minoris S. P.	11	4 25.02	+ 6.62	[− 7.25]	54 22 6.72	48.502	+1 21.3	[57.1]	18 4	.....	.. ..	....
24	μ Geminorum	11	17 3.08	+ 0.05	[− 6.52]	343 34 5.38	48.532	− 17.1	[56.0]	6 16	.....	.. ..	....
25	51 H. Cephei	11	54 17.01	− 7.45	[− 7.01]	48 12 5.40	46.474	+1 5.5	[55.7]	6 54	.....	.. ..	....
	April 1, Ei.												
26	ε Pegasi...........	11	39 26.18	+ 0.20	− 9.04	330 26 6.20	46.622	− 32.9	56.0	21 39	.....	.. ..	....
27	α Aquarii..........	11	0 48.62	+ 0.27	− 9.13	320 14 5.80	43.411	− 48.2	55.5	22 0	.....	.. ..	....
28	ζ Pegasi	11	36 37.98	+ 0.17	− 8.99	331 20 5.72	45.254	− 31.5	55.0	22 36	.....	.. ..	....
29	α Piscis Australis ..	11	52 16.99	+ 0.44	− 9.27	290 54 4.48	46.660	−2 29.3	56.5	22 52	.....	.. ..	....
30	α Pegasi	11	59 56.33	+ 0.14	− 9.11	335 42 5.65	43.319	− 25.9	54.9	22 59	.....	.. ..	....
	April 2, Ei.												
31	Sun I, S.........	11	45 5.77	+ 0.16	− **9.19**	325 42 2.98	45.808	− 38.7	**55.0**	0 44 56.74	+64.45	+ 4 40 37.9	....
32	Sun II, N	11	47 14.68	+ 0.16	− **9.19**	326 14 1.85	46.235	− 37.9	**55.0**	0 47 5.65	−64.46	+ 5 12 41.5	....
33	β Arietis	11	49 16.65	+ 0.06	− 9.23	341 20 5.10	46.622	− 19.1	54.6	1 49	.....	.. ..	....
34	γ Andromedæ	11	57 55.45	− 0.12	− 9.24	2 52 4.30	45.188	+ 2.9	54.8	1 57	.....	.. ..	....
35	Venus I, C	11	33 58.56	+ 0.05	− **9.26**	342 28 5.10	46.215	− 17.8	**54.3**	3 33 49.35	+ 0.66	+21 27 7.1	....
36	ζ Persei...........	11	48 1.06	− 0.02	− 9.26	352 36 4.40	46.305	− 7.3	54.2	3 47	.....	.. ..	....
	April 2, La.												
37	ε Pegasi...........	8	39 26.65	+ 0.12	− 9.41	330 26 5.00	46.805	− 32.8	56.8	21 39	.....	.. ..	....
38	α Pegasi...........	8	59 56.79	+ 0.10	− 9.52	335 42 4.85	43.327	− 26.0	54.6	22 59	.....	.. ..	....
	April 3, La.												
39	Sun I, S.........	2	48 44.75	+ 0.15	− **9.61**	326 6 8.05	42.472	− 38.6	**55.5**	0 48 35.29	+64.53	+ 5 3 38.7	....
40	Sun II, N	11	50 53.81	+ 0.15	− **9.61**	326 38 11.68	42.445	− 37.8	**55.5**	0 50 44.35	−64.53	+ 5 35 38.4	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
27 0 59	29.63	49.6	48.7
2 7	29.62	51.0	49.7
3 17	29.61	51.5	50.6
21 1	29.76	39.5	39.4
22 4	29.78	43.0	40.4
23 5	29.80	44.0	40.7
28 0 27	29.795	43.0	42.3
1 0	29.79	43.5	42.9
1 54	29.76	46.0	44.1
3 1	29.77	46.5	46.0
3 46	29.77	48.5	46.9
5 56	29.80	48.0	47.0
7 3	29.80	45.0	44.9
1 21 22	29.76	44.5	46.6
22 5	29.76	48.0	48.0
23 4	29.75	52.0	51.7
2 0 45	29.71	55.0	57.5
1 44	29.68	57.5	58.1
2 5	29.675	59.0	59.2
3 38	29.63	59.0	58.3
3 54	29.63	59.0	58.0
21 42	29.72	47.2	47.1
23 2	29.74	51.2	49.9
3 0 51	29.725	52.6	51.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 25.	Bisections at c_1, c_2, c_3, c_4, c_5.
5, 21.	Bisections at I, VII.
6.	Bisections at II, VI.
8, 13, 31, 39.	Bisections at I, II.
14, 32, 36, 37, 40.	Bisections at VI, VII.
16.	Bisections at c_2, c_3, c_4.
17.	Bisections at I, VI.
19.	Bisections at I, II, VI.
20.	Bisection at II.
23.	Bisections at c_5, c_4, c_3, c_2, c_1.
29, 33.	Bisections at II, VI, VII.
38.	Bisections at I, II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 3.0	− 8.6	+ 0.3	− 5.3
6	+ 3.0	+ 8.6	...	+ 11.6
13	+ 5.1	−16 2.3	...	−15 57.2
14	+ 5.2	+16 2.3	...	+16 7.5
20	+ 3.0	− 9.6	+ 0.4	− 6.2
21	+ 3.0	+ 9.6	...	+ 12.6
31	+ 4.9	+16 1.8	...	+16 6.7
32	+ 4.9	−16 1.8	...	−15 56.9
35	+ 2.8	....	+ 0.2	+ 3.0
39	+ 4.9	+15 59.8	...	+16 4.7
40	+ 4.8	−15 59.8	...	−15 55.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
		·	m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Andromedæ	9	4 18.11	− 0.04	− 9.76	356 6	......	....	....	1 4	.....	.. ..	....
2	α Ursæ Minoris....	7	22 22.97	−15.43	[−12.68]	49 46 7.30	46.439	+1 7.8	[55.0]	1 21	.....	.. ..	....
3	γ Andromedæ	11	57 55.85	− 0.10	− 9.67	2 52 5.58	45.131	+ 2.9	55.1	1 57	.....	.. ..	....
4	α Arietis	11	1 42.25	+ 0.05	− 9.57	344 0 5.90	47.164	− 16.3	55.5	2 1	.....	.. ..	....
5	Venus I, C........	6	38 32.40	+ 0.06	− **9.60**	342 48 5.62	43.235	− 17.6	**55.5**	3 38 22.86	+ 0.73	+21 46 9.5	....
6	Venus II	5	38 33.40	+ 0.06	− **9.60**	... .	......	....	....	3 38 23.86	− 0.27	.. ..	....
7	γ Tauri............	11	14 16.69	+ 0.09	− 9.56	336 24 5.32	46.823	− 24.9	55.7	4 14	.....	.. ..	....
8	Moon I, S........	11	22 23.90	+ 0.06	− **9.57**	342 28 3.10	44.007	− 18.0	**55.5**	4 22 14.39	+71.37	+21 29 36.3	....
9	α Tauri............	11	30 21.59	+ 0.09	− 9.58	337 20 3.30	44.700	− 23.8	55.4	4 30	.....	.. ..	....
	April 3, Ei.												
10	δ Ursæ Minoris S. P.	11	4 30.23	+ 5.51	[− 9.13]	54 22	......	....	....	18 4	.....	.. ..	....
11	μ Geminorum	11	17 6.09	+ 0.01	[− 9.59]	343 34 4.85	48.515	− 16.8	[55.4]	6 16	.....	.. ..	....
12	51 H. Cephei	11	54 15.99	− 6.27	[− 9.89]	48 12 5.45	46.522	+1 4.3	[55.5]	6 53	.....	.. ..	....
	April 4, Br.												
13	ε Pegasi...........	9	39 27.49	+ 0.15	−10.23	330 26 7.05	46.662	− 33.9	56.5	21 39	.....	.. ..	....
14	α Aquarii..........	11	0 49.95	+ 0.21	−10.34	320 14 7.38	43.454	− 49.6	56.3	22 0	.....	.. ..	....
15	α Pegasi...........	8	59 57.58	+ 0.12	−10.29	335 42 6.05	43.383	− 26.7	55.3	22 59	.....	.. ..	....
16	Mercury C, C	11	47 32.54	+ 0.21	−**10.34**	320 6 5.88	44.248	− 49.2	**55.6**	23 47 22.41	− 0.20	− 0 56 2.3	....
17	α Andromedæ	11	3 23.92	+ 0.03	−10.43	349 34 6.50	43.422	− 10.8	55.4	0 3	.....	.. ..	....
18	γ Pegasi...........	6	8 15.91	+ 0.12	−10.32	335 40 6.00	42.332	− 26.6	55.5	0 8	.....	.. ..	....
	April 5, Br.												
19	Sun I, S..........	11	56 3.17	+ 0.16	−**10.36**	326 50 7.35	47.965	− 38.2	**55.6**	0 55 52.97	+64.59	+ 5 49 23.7	....
20	Sun II, N.........	11	58 12.35	+ 0.16	−**10.36**	327 22 8.00	48.102	− 37.4	**55.6**	0 58 2.15	−64.59	+ 6 21 23.6	....
21	α Arietis	11	1 43.14	+ 0.05	−10.46	344 0 5.45	47.233	− 16.6	55.7	2 1	.....	.. ..	....
22	η Tauri	11	41 43.80	+ 0.04	−10.50	344 48 5.70	48.230	− 15.6	54.9	3 41	.....	.. ..	....
23	Venus I, S.......	11	47 40.95	+ 0.04	−**10.41**	343 24 5.42	44.355	− 17.1	**55.6**	3 47 30.58	+ 0.68	−22 22 31.1	....
24	Venus N..........	..	.. ..	.....	.....	343 24 5.42	45.360	− 17.1	**55.6**	.. ..	.....	−22 22 50.5	....
25	γ Tauri............	10	14 17.46	+ 0.08	−10.35	336 24 5.50	46.776	− 25.0	55.5	4 14	.....	.. ..	....
26	α Tauri............	11	30 22.35	+ 0.07	10.35	337 20	......	....	....	4 30	.....	.. ..	....
27	α Orionis	11	49 57.12	+ 0.08	−10.26	328 24 5.08	47.428	− 35.1	55.9	5 49	.....	.. ..	....
28	δ Ursæ Minoris S. P.	9	4 32.59	+ 4.26	[− 9.62]	54 22 5.90	48.570	+1 20.0	[57.1]	18 4	.....	.. ..	....
29	μ Geminorum......	11	17 6.90	+ 0.02	−10.45	343 34 4.70	48.524	− 16.8	55.5	6 16	.....	.. ..	....
30	Moon I, N	11	20 14.77	+ 0.02	−**10.41**	342 23 58.20	49.457	− 18.1	**55.5**	6 20 4.38	+68.54	+21 24 1.4	....
31	γ Geminorum......	11	32 8.32	+ 0.04	−10.44	337 30 4.40	46.200	− 23.7	55.4	6 31	.....	.. ..	....
32	ε Geminorum......	11	37 59.22	0.00	−10.46	346 14 4.75	48.090	− 14.0	55.0	6 37	.....	.. ..	....
33	51 H. Cephei	10	54 16.75	− 4.86	[−12.86]	48 12 5.90	46.520	+1 4.3	[56.1]	6 53	.....	.. ..	....
34	δ Geminorum......	11	14 21.63	+ 0.02	−10.43	343 12 5.40	42.436	− 17.3	55.9	7 14	.....	.. ..	....
	April 5, Ei.												
35	α Pegasi...........	9	59 57.99	+ 0.07	−10.64	335 42 3.52	43.440	− 25.6	55.4	22 59	.....	.. ..	....
36	α Andromedæ	11	3 24.36	− 0.03	−10.80	349 34 4.10	43.475	− 10.3	55.2	0 3	.....	.. ..	....
	April 6, Ei.												
37	Sun I, N.	11	59 42.72	+ 0.08	−**10.75**	327 46 4.02	43.985	− 35.3	**55.7**	0 59 32.05	+64.60	+ 6 44 6.2	....
38	Sun II, S.........	11	1 51.92	+ 0.08	−**10.75**	327 14 4.75	44.152	− 36.0	**55.7**	1 1 41.25	−64.60	+ 6 12 5.6	....
39	α Ursæ Minoris....	8	22 19.69	−15.61	[− 9.06]	49 46 6.72	46.611	+1 6.3	[56.6]	1 21	.....	.. ..	....
40	β Arietis	8	49 18.29	− 0.01	−10.80	341 20 3.65	46.780	− 18.8	55.8	1 49	.....	.. ..	....
41	α Arietis	11	1 43.49	− 0.03	−10.73	344 0 3.32	47.246	− 15.9	55.2	2 1	.....	.. ..	....
42	β Persei	11	1 51.49	− 0.18	−10.86	1 36 3.98	42.921	+ 1.6	55.9	3 1	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
3 1 26	29.71	53.6	53.6
3 41	29.70	55.2	54.8
4 33	29.70	54.6	54.2
6 12	29.70	55.0	54.2
7 3	29.71	52.0	51.9
4 21 43	30.05	39.0	37.8
22 38	30.04	42.2	40.9
23 3	30.045	43.5	42.6
23 50	30.02	44.9	44.4
0 12	30.02	45.9	44.9
5 0 58	29.99	46.8	46.7
2 5	29.96	50.1	50.1
3 54	29.895	54.0	55.3
4 18	29.89	54.9	55.7
5 46	29.86	55.0	56.2
6 41	29.85	54.2	55.3
7 18	29.845	53.3	54.1
22 56	29.68	56.0	56.9
23 42	29.66	58.0	59.1
0 40	29.64	60.0	61.9
6 1 0	29.63	61.0	62.6
1 36	29.62	63.0	64.4
2 [illegible]	29.60	65.0	65.8
2 59	29.58	64.5	66.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 12.	Bisections at c_1, c_2, c_3, c_4, c_5.
7, 17, 21.	Bisections at II, VI, VII.
8.	Bisections at III, IV, V.
8.	Z. D. thread A used.
15.	Bisections at I, VI, VII.
18, 20, 38, 40.	Bisections at VI, VII.
19.	Bisections at I, II.
23.	Bisections at I, VII.
24.	Bisections at II, VI.
28.	Bisections at c_5, c_4, c_1.
30.	Bisections at II, III, IV, V, VI.
33.	Bisections at c_1, c_2, c_3, c_4.
37.	Bisection at II.
39.	Bisections at c_1, c_4, c_5, d_1.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 2.8	....	+ 0.2	+ 3.0
8	+17 12.0	+15 52.0	...	+33 4.0
16	+ 9.0	....	− 1.2	+ 7.8
19	+ 4.8	+15 59.9	...	+16 4.7
20	+ 4.7	−15 59.9	...	−15 55.2
23	+ 2.7	+ 9.9	...	+ 12.6
24	+ 2.7	− 9.9	+ 0.4	− 6.8
30	+16 43.6	−15 21.1	...	+ 1 22.5
37	+ 4.7	−16 0.3	...	−15 55.6
38	+ 4.7	+16 0.3	...	+16 5.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Tauri	9	41 44.14	— 0.05	—10.76	344 48 3.82	48.361	— 15.0	56.3	3 41	.....	.. ..	....
2	Venus I, C	11	52 15.55	— 0.04	**—10.80**	343 42 4.80	43.260	— 16.1	**55.7**	3 52 4.71	+ 0.69	+22 40 10.5	....
3	γ Tauri	8	14 17.94	0.00	—10.76	336 24 3.90	46.860	— 24.1	55.8	4 14	.....	.. ..	....
4	δ Ursæ Minoris S.P.	8	4 34.26	+ 4.56	[—11.29]	54 22 5.18	48.773	+1 17.6	[58.9]	18 4	.....	.. ..	....
5	μ Geminorum	8	17 7.26	— 0.08	[—10.73]	343 34 3.88	48.700	— 16.3	[57.0]	6 16	.....	.. ..	....
	April 7, Br.												
6	φ Geminorum	11	47 36.30	— 0.09	—11.17	348 2 5.28	46.855	— 11.7	57.3	7 47	.....	.. ..	....
7	ω¹ Cancri	11	55 6.50	— 0.08	—11.21	346 40 5.58	48.512	— 13.1	57.2	7 54	.....	.. ..	....
8	Moon I, N.......	11	6 36.95	— 0.04	**—11.14**	337 15 58.85	45.970	— 23.3	**57.0**	8 6 25.77	+64.60	+16 14 48.1	....
9	η Cancri	11	27 9.21	— 0.06	—11.10	341 48 4.78	45.094	— 18.3	57.1	8 26	.....	.. ..	....
10	σ Hydræ	11	33 45.23	0.00	—11.09	324 42 4.88	48.016	— 39.5	56.4	8 33	.....	.. ..	....
	April 8, Br.												
11	ε Hydræ	11	41 42.49	+ 0.03	—11.34	327 48 3.85	46.683	— 35.5	56.7	8 41	.....	.. ..	....
12	Moon I, N.......	11	55 32.83	+ 0.01	**—11.32**	333 34 4.25	43.492	— 28.0	**57.3**	8 55 21.52	+62.93	+12 32 1.0	....
13	κ Cancri	11	2 33.59	+ 0.02	—11.24	332 6 4.18	43.561	— 29.9	57.2	9 2	.....	.. ..	....
14	θ Hydræ	11	9 23.37	+ 0.04	—11.25	323 46 5.08	43.790	— 41.4	57.8	9 9	.....	.. ..	....
15	α Lyncis	11	15 12.22	— 0.07	—11.42	355 50 4.40	44.722	— 4.1	56.7	9 15	.....	.. ..	....
16	α Hydræ	11	22 54.11	+ 0.07	—11.36	312 48 5.30	45.644	—1 1.0	58.1	9 22	.....	.. ..	....
	April 9, Ei.												
17	δ Ursæ Minoris S. P.	10	4 36.33	+ 4.24	[—12.06]	54 22	......	....	....	18 4	.....	.. ..	....
18	μ Geminorum	11	17 7.94	— 0.08	[—11.46]	343 34 6.00	48.418	— 16.8	[54.8]	6 16	.....	.. ..	....
19	51 H. Cephei	11	54 13.18	— 5.02	[—10.70]	48 12 6.80	46.403	+1 4.4	[54.9]	6 53	.....	.. ..	....
20	θ Hydræ	11	9 23.43	+ 0.01	—11.30	323 46 5.78	43.807	— 42.6	57.0	9 9	.....	.. ..	....
21	ο Leonis	11	36 2.77	— 0.01	—11.32	331 22 5.35	45.340	— 31.8	55.6	9 35	.....	.. ..	....
22	Moon I, N.......	11	42 23.99	0.00	**—11.34**	329 21 58.05	44.028	— 34.5	**56.4**	9 42 12.65	+61.70	+ 8 19 59.5	....
23	π Leonis	11	55 9.82	0.00	—11.40	329 32 4.90	47.345	— 34.3	56.3	9 54	.....	.. ..	....
24	α Leonis	11	3 16.89	— 0.02	—11.34	333 28 5.60	46.848	— 29.1	56.9	10 3	.....	.. ..	....
	April 9, La.												
25	ζ Pegasi......	11	36 41.08	+ 0.02	—11.78	331 20 6.95	45.238	— 32.6	56.1	22 36	.....	.. ..	....
26	α Pegasi..........	9	59 59.32	0.00	—11.82	335 42 6.45	43.350	— 26.9	55.3	22 59	.....	.. ..	....
27	α Andromedæ	10	3 25.65	— 0.06	—12.00	349 34 5.72	43.430	— 10.9	55.5	0 3	.....	.. ..	....
28	β Andromedæ	8	4 20.45	— 0.10	—11.99	356 6 5.88	46.713	— 4.0	55.9	1 4	.....	.. ..	....
	April 10, La.												
29	Sun I, N	11	14 21.97	+ 0.02	**—11.90**	329 16 6.72	42.588	— 35.2	**55.8**	1 14 10.09	+64.77	+ 8 13 42.6	....
30	Sun S	..	.. ..	.....	.....	328 44 6.55	43.025	— 35.9	**55.8**	.. ..	.....	+ 7 41 45.9	....
31	ζ Persei	11	48 3.68	— 0.08	—11.90	352 36 4.48	46.294	— 7.6	56.2	3 47	.....	.. ..	....
32	ε Persei	11	51 21.66	— 0.13	—11.94	0 44 3.62	46.200	+ 0.8	56.5	3 51	.....	.. ..	....
33	Venus I, C	11	10 33.55	— 0.04	**—11.92**	344 46 7.20	44.600	— 15.9	**55.8**	4 10 21.59	+ 0.72	+23 44 38.6	....
34	α Tauri	10	30 23.87	0.00	—11.85	337 20 6.90	44.541	— 24.4	55.5	4 30	.....	.. ..	....
35	ι Aurigæ..........	11	50 42.25	— 0.08	—11.99	354 2 5.80	43.764	— 6.1	55.3	4 50	.....	.. ..	....
36	α Leonis	11	3 17.47	0.00	—11.95	333 28 5.95	46.845	— 29.5	56.7	10 3	.....	.. ..	....
37	γ¹ Leonis	11	14 42.41	— 0.04	—11.94	341 22 6.72	44.799	— 19.9	56.7	10 14	.....	.. ..	....
38	Moon I, N.......	11	27 56.56	+ 0.02	**—11.95**	324 50 8.15	47.087	— 41.7	**56.9**	10 27 44.63	+61.01	+ 3 49 0.7	....
39	l Leonis	11	44 14.83	0.00	—11.90	332 6 7.42	44.004	— 31.4	57.1	10 44	.....	.. ..	....
40	p³ Leonis	11	2 3.04	+ 0.03	—12.03	323 32 6.68	42.849	— 43.9	57.1	11 1	.....	.. ..	....
	April 13, La.												
41	α Andromedæ	11	3 27.04	+ 0.03	—13.42	349 34 5.77	43.510	— 10.6	55.8	0 3	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
6 3 58	29.56	67.5	68.8
4 21	29.56	67.5	68.8
5 58	29.55	66.0	66.7
6 57	29.55	64.0	64.9
7 7 41	29.46	62.8	63.4
8 14	29.47	61.9	62.3
8 35	29.48	61.0	61.5
8 8 25	29.58	59.9	59.4
9 27	29.63	58.0	56.9
9 6 20	29.69	53.0	52.1
7 2	29.71	52.0	51.2
9 5	29.765	48.0	46.0
10 0	29.78	46.5	45.1
22 44	29.97	40.2	36.9
23 3	29.97	41.0	37.7
0 10	29.98	43.8	39.0
10 1 17	29.95	43.2	41.0
3 54	29.92	46.2	44.2
4 55	29.935	47.0	46.1
10 5	30.00	42.2	41.8
11 4	30.02	40.6	39 7
13 23 53	29.85	51.2	49.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 11, 20, 28.	Bisections at II, VI, VII.
4.	Bisections at c_3, c_2, c_1, b_3, b_2, b_1.
5, 30.	Bisections at VI, VII.
8, 22.	Bisections at III, IV, V.
12, 38.	Bisections at II, III, IV, V, VI.
19.	Bisections at c_1, c_2, c_3, c_4, c_5.
25, 29.	Bisections at I, II.
27.	Bisections at I, VII.
41.	Bisection at VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 2.7	....	+ 0.2	+ 2.9
8	+20 56.8	—14 58.5	...	+ 5 58.3
12	+23 59.3	—14 51.4	...	+ 9 7 9
22	+27 21.4	—14 46.9	...	+12 34.5
29	+ 4.5	—15 58.4	...	—15 53.9
30	+ 4.5	+15 58.3	...	+16 2.8
33	+ 2.7	....	+ 0.1	+ 2.8
38	+30 52.6	—14 45.1	...	+16 7.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Andromedæ	11	4 21.93	0.00	−13.53	356 6 5.48	46.603	− 3.9	54.6	1 4	.....	.. ..	....
2	α Ursæ Minoris	8	22 19.55	−10.10	[−14.38]	49 46 7.12	46.302	+1 8.7	[56.5]	1 21	.....	.. ..	....
	April 14, La.												
3	Sun I, S	11	29 5.94	+ 0.10	**−13.44**	330 10 5.10	47.522	− 33.2	**55.2**	1 28 52.60	+64.95	+ 9 9 18.2	....
4	Sun II, N.........	11	31 15.84	+ 0.10	**−13.44**	330 42 4.20	47.595	− 32.4	**55.2**	1 31 2.50	−64.95	+ 9 41 15.3	....
5	γ Andromedæ	11	57 59.61	− 0.04	−13.46	2 52 5.80	45.045	+ 3.0	55.7	1 57	.....	.. ..	....
6	α Arietis	11	1 46.09	+ 0.05	13.39	344 0 6.22	47.117	− 16.6	54.7	2 1	.....	.. ..	....
7	η Tauri	11	41 46.61	+ 0.04	−13.38	344 48 5.22	48.267	− 15.6	55.7	3 41	.....	.. ..	....
8	ζ Persei	11	48 5.06	+ 0.01	−13.40	352 36 4.45	46.210	− 7.4	55.1	3 47	.....	.. ..	....
9	ε Persei	11	51 22.95	− 0.03	13.37	0 44 3.92	46.097	+ 0.8	55.3	3 51	.....	.. ..	....
10	Venus I, C.........	11	28 50.28	+ 0.04	**−13.37**	345 42 3.77	43.070	− 14.6	**55.2**	4 28 36.95	+ 0.75	+24 40 7.7	....
11	α Tauri.............	11	30 25.17	+ 0.07	−13.26	337 19 57.37	44.990	− 24.1	54.9	4 30	.....	.. ..	....
12	θ Virginis	11	5 2.50	+ 0.16	−13.24	316 2 6.75	42.896	− 56.8	57.9	13 4	.....	.. ..	....
13	α Ursæ Minoris S. P.	7	21 58.20	+12.53	[−15.53]	52 12 6.40	48.628	−1 16.3	[58.7]	1 21	.....	.. ..	....
14	ζ Virginis	11	29 52.12	+ 0.14	−13.34	320 56 5.02	46.388	− 47.8	56.5	13 29	.... .	.. ..	....
15	Moon I, S.........	11	32 52.98	+ 0.20	**−13.31**	306 22 4.72	45.764	−1 19.9	**57.3**	13 32 39.87	+63.59	−14 40 6.8	....
16	Moon II...........	11	35 0.16	+ 0.20	**−13.31**	306 36	......	....	....	13 34 47.05	−63.59	.. ..	....
17	m Virginis	11	36 38.08	+ 0.17	−13.31	312 50 5.27	44.625	− 1 3.5	57.5	13 36	.....	.. ..	....
18	η Bootis............	11	50 11.70	+ 0.06	−13.34	339 54 6.05	48.187	− 21.6	57.3	13 49	.....	.. ..	....
	April 15, Br.												
19	α Canum Venat....	11	51 38.03	− 0.05	−13.75	359 52 4.67	45.935	− 0.1	56.1	12 51	.....	.. ..	....
20	Moon II, S.......	11	25 32.10	+ 0.20	**−13.56**	302 48 4.55	43.950	−1 30.6	**56.9**	14 25 18.74	−65.32	−18 14 52.0	....
21	ε Bootis............	11	40 53.62	+ 0.02	−13.53	348 30 5.40	47.131	− 11.9	56.9	14 40	.....	.. ..	....
22	γ Scorpii	11	58 29.73	+ 0.22	−13.50	296 10 4.42	43.400	−1 58.6	57.3	14 58	.....	.. ..	....
23	β Libræ	11	11 53.95	+ 0.16	−13.46	312 0 5.42	48.252	−1 5.0	57.2	15 11	.....	.. ..	....
	April 19, Br.												
24	β¹ Scorpii	11	59 53.46	+ 0.10	−12.96	301 30 7.52	45.885	−1 31.9	46.0	15 59	.....	.. ..	....
25	δ Ophiuchi	11	9 22.21	+ 0.04	−12.95	317 36 8.60	42.650	− 51.6	46.1	16 9	. ...	.. ..	....
26	θ Ophiuchi	11	16 8.12	+ 0.12	−12.97	296 8 8.37	47.270	−1 54.9	46.5	17 15	.....	.. ..	....
27	b Ophiuchi	8	20 31.80	+ 0.12	−13.01	296 58 7.87	43.920	−1 50.9	46.7	17 20	.....	.. ..	....
28	Moon II, N	11	10 20.98	+ 0.11	**−12.96**	298 50 7.92	47.615	−1 42.9	**46.7**	18 10 8.13	−69.98	−22 11 40.3	....
29	η Serpentis	11	16 23.54	+ 0.04	−12.97	318 6 8.95	45.249	− 51.1	46.3	18 16	.....	.. ..	....
30	λ Sagittarii	8	22 3.70	+ 0.12	−12.96	295 34 7.42	45.852	−1 58.4	48.0	18 21	.....	.. ..	....
31	1 Aquilæ	11	30 1.31	+ 0.06	−12.92	312 42 9.78	47.958	−1 1.7	47.1	18 29	.....	.. ..	....
32	51 H. Cephei S. P....	9	54 2.32	+ 4.54	[−13.82]	53 48 10.08	41.504	+1 18.2	[45.7]	6.53	.....	.. ..	....
33	ι Lyræ	11	3 58.93	− 0.13	−13.00	356 58 8.22	42.560	− 3.0	[44.9]	19 3	.....	.. ..	....
	April 23, Ei.												
34	β Aquarii..........	11	26 30.28	0.00	−10.96	315 2 8.78	42.260	− 56.3	45.1	21 26	.....	.. ..	....
35	Moon II, N	10	0 13.48	+ 0.01	**−10.90**	313 38 8.77	45.736	− 58.9	**43.8**	22 0 2.59	−68.28	− 7 23 28.8	....
36	γ Aquarii..........	11	16 41.80	− 0.02	−10.96	319 8 8.18	45.545	− 48.6	43.3	22 16	.....	.. ..	....
37	ζ Pegasi...........	11	36 40.55	− 0.07	−10.84	331 20 8.45	44.559	− 30.7	44.0	22 36	.....	.. ..	....
38	α Pegasi...........	11	59 58.72	− 0.09	−10.83	335 42 8.20	42.522	− 25.3	42.9	22 59	.....	.. ..	....
	April 23, La.												
39	α Andromedæ	11	3 24.96	− 0.18	−10.94	349 34 7.92	42.621	− 10.2	43.8	0 3	.....	.. ..	....
40	γ Pegasi...........	9	8 16.93	− 0.12	−10.82	335 40 7.15	41.533	− 25.2	43.4	0 8	.....	.. ..	....
41	β Andromedæ	11	4 19.77	− 0.23	−11.00	356 6 8.25	45.808	− 3.7	43.3	1 4	.....	.. ..	....
42	α Ursæ Minoris	8	22 21.95	−10.99	[−13.27]	49 46 10.51	45.504	+1 5.7	[44.5]	1 21	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
13	0	58	29.865	51.0	49.3
14	1	31	29.88	52.0	50.3
	2	10	29.87	52.2	50.2
	3	37	29.88	54.8	52.2
	4	32	29.89	54.0	53.1
	13	7	30.00	44.0	43.5
	13	44	30.00	43.0	43.1
15	12	54	30.13	50.8	49.7
	14	28	30.135	50.5	49.1
	15	2	30.125	49.9	48.5
	15	15	30.13	49.8	48.1
19	15	55	29.90	60.9	62.5
	16	45	29.91	61.0	62.4
	18	5	29.92	60.0	59.5
	18	35	29.92	59.0	57.9
	19	10	29.935	58.4	57.5
23	21	24	29.73	61.0	60.6
	22	10	29.74	64.0	62.5
	22	56	29.75	65.5	64.0
	0	11	29.76	69.2	67.3
	1	7	29.755	70.0	68.9
	1	26	29.75	70.8	70.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 42.	Bisections at c_1, c_2, c_3, c_4, c_5.
3.	Bisections at I, II.
4, 26, 27, 30.	Bisections at VI, VII.
6, 14, 19, 22, 40.	Bisections at II, VI, VII.
13, 32.	Bisections at c_5, c_4, c_3, c_2, c_1.
15, 20, 28, 35.	Bisections at II, III, IV, V, VI.
38.	Bisections at I, II, VI.
42.	Microscopes read before and after bisections.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 4.3	+15 58.6	...	+16 2.9
4	+ 4.3	−15 58.5	...	−15 54.2
10	+ 2.6	....	+ 0.1	+ 2.7
15	+43 53.9	+14 57.0	...	+58 50.9
20	+46 10.4	+15 3.3	...	+61 13.7
28	+49 57.4	−15 37.6	...	+34 19.8
35	+43 0.4	−16 18.5	...	+26 41.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	April 24, La.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N	11	6 15.67	— 0.14	**—10.85**	334 10 8.80	43.302	— 26.8	**43.6**	2 6 4.68	+65.56	+13 8 18.8	....
2	Sun II, S	11	8 26.79	— 0.14	**—10.85**	333 38 8.62	44.130	— 27.4	**43.6**	2 8 15.80	—65.56	+12 36 29.8	....
3	α Tauri	11	30 22.88	— 0.19	—10. 78	337 20 7.18	43.844	— 22.9	44. 1	4 30	.....	.. ..	....
4	ι Aurigæ..........	11	50 41.06	0.26	—10. 78	354 2 6.70	43.003	— 5.7	43. 8	4 50	.....	.. ..	....
5	β Tauri	11	20 10.47	— 0.24	—10. 73	349 32 7.50	45.857	— 10.1	42. 9	5 19	.....	.. ..	....
6	α Orionis.....	11	49 57.47	— 0.17	—10. 62	328 24 7.38	46.632	— 33.8	43. 9	5 49	.....	.. ..	....
7	δ Ursæ Minoris S. P.	10	4 40.71	+ 3.44	[—11. 00]	54 22 9.40	47.831	+1 17.0	[46. 2]	18 4	.....	.. ..	....
	April 24, Ei.												
8	γ Aquarii..........	11	16 41.51	— 0.07	—10. 60	319 8 9.25	45.634	— 50.0	44. 6	22 16	.....	.. ..	....
9	ζ Pegasi...........	11	36 40.33	— 0.12	—10. 54	331 20 9.02	44.642	— 31.5	45. 2	22 36	.....	.. ..	....
10	Moon II, N	11	56 15.52	— 0.07	**—10.56**	319 20 8.72	42.207	49.6	**45.0**	22 56 4.89	—68.31	— 1 42 28.2	....
11	α Pegasi...........	11	59 58.44	— 0.14	—10. 48	335 42 8.40	42.682	— 26.0	44. 7	22 59	.....	.. ..	....
12	γ Pegasi...........	10	8 16.72	— 0.13	—10. 58	335 40 8.92	41.471	26.0	43. 8	0 8	.....	.. ..	....
13	Mercury II, C....	10	34 10.22	— 0.08	**—10.56**	321 40 8.62	45.930	— 45.3	**44.5**	0 33 59.58	— 0.25	+ 0 38 47.7	....
14	β Ceti	8	38 45.43	0.00	—10. 58	302 30 10.22	45.794	—1 29.7	45. 9	0 38	.....	.. ..	....
15	α Ursæ Minoris....	10	22 17.84	—10.74	[— 9. 15]	49 46 9.80	45.356	+1 7.8	[43. 4]	1 21	.....	.. ..	....
	April 25, Ei.												
16	Sun I, S.........	11	10 0.91	— 0.11	**—10.55**	333 58 7.30	42.945	— 27.8	**44.0**	2 9 50.25	+65.65	+12 56 9.1	....
17	Sun II, N	10	12 12.21	— 0.11	**—10.55**	334 30 6.52	42.720	— 27.2	**44.0**	2 12 1.55	—65.65	+13 28 0.6	....
18	α Tauri............	11	30 22.54	— 0.11	—10. 53	337 20 7.65	43.816	— 23.6	43. 3	4 30	.....	.. ..	....
19	ι Aurigæ..........	10	50 40.86	— 0.18	—10. 66	354 2 7.78	42.990	— 5.9	42. 3	4 50	.....	.. ..	....
20	β Orionis..........	11	9 55.19	— 0.02	—10. 48	312 42 8.28	46.925	—1 1.2	44. 7	5 9	.....	.. ..	....
21	Venus I, N	11	18 14.36	— 0.14	**—10.55**	347 26 10.62	44.060	— 12.6	**43.0**	5 18 3.67	+ 0.86	+26 24 46.4	....
22	Venus S..... ...	..	.. ..	.....	.....	347 26 10.62	42.935	— 12.6	**43.0**	.. ..	.....	+26 24 24.1	....
23	δ Orionis..........	8	27 5.44	— 0.04	—10. 55	320 40	......	....	....	5 26	.....	.. ..	....
24	ε Orionis..........	10	31 19.90	— 0.04	—10. 53	319 46 8.45	43.315	— 47.8	42. 1	5 31	.....	.. ..	....
25	δ Ursæ Minoris S. P.	7	4 41.13	+ 3.46	[—11. 07]	54 22 9.45	47.692	+1 19.0	[45. 7]	18 4	.....	.. ..	....
	April 25, Br.												
26	α Pegasi...........	11	59 58.64	— 0.09	—10. 70	335 42 8.78	42.725	— 25.8	46. 0	22 59	.....	.. ..	....
27	Moon II.........	11	52 50.56	— 0.07	**—10.70**	324 54	......	....	....	23 52 39.79	—68.83	.. ..	....
28	α Andromedæ	11	3 24.74	— 0.15	—10. 70	349 34 9.65	42.710	— 10.4	45. 6	0 3	.....	.. ..	....
29	γ Pegasi...........	11	8 16.73	— 0.10	—10. 60	335 40 9.18	41.625	— 25.7	45. 7	0 8	.....	.. ..	....
30	Mercury II, C....	11	38 30.74	— 0.07	**—10.71**	322 6 8.75	42.789	— 44.1	**45.2**	0 38 19.96	— 0.24	+ 1 3 48.2	....
31	β Andromedæ	11	4 19.59	— 0.18	—10. 82	356 6 8.78	45.812	3.8	43. 9	1 4	.....	.. ..	....
32	α Ursæ Minoris....	8	22 15.90	— 6.34	[—11. 31]	49 46 10.18	45.409	+1 7.0	[44. 3]	1 21	.....	.. ..	....
	April 26, Br.												
33	Sun I, S.........	11	13 47.35	— 0.12	**—10.71**	334 18 9.52	41.222	— 27.0	**45.0**	2 13 36.52	+65.65	+13 15 34.3	....
34	Sun II	11	15 58.66	— 0.12	**—10.71**	334 32	......	....	....	2 15 47.83	—65.66	.. ..	....
35	α Tauri............	11	30 22.66	— 0.13	—10. 64	337 20 8.52	43.805	— 23.2	44. 5	4 30	.....	.. ..	....
36	ι Aurigæ..........	11	50 41.04	— 0.17	—10. 86	354 2 8.12	43.022	5.8	44. 4	4 50	.....	.. ..	....
37	β Tauri............	11	20 10.38	— 0.16	—10. 74	349 32	......	....	....	5 19	.....	.. ..	....
38	Venus I, N	11	22 38.30	— 0.15	**—10.71**	347 34 10.02	37.640	— 12.3	**44.4**	5 22 27.44	+ 0.87	+26 30 43.9	....
39	Venus S.........	..	.. ..	.....	.....	347 34 10.02	36.355	— 12.3	**44.4**	.. ..	.....	+26 30 19.6	....
40	ε Orionis..........	11	31 20.11	— 0.09	—10. 70	319 46 7.90	43.358	47.0	44. 6	5 31	.....	.. ..	....
41	α Orionis..........	11	49 57.35	— 0.11	—10. 59	328 24 7.82	46.658	— 34.1	44. 4	5 49	.....	.. ..	....
	April 26, Ei.												
42	α Andromedæ	11	3 24.87	— 0.15	—10. 81	349 34 19.58	42.032	— 10.3	44. 3	0 3	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
24 2 8	29.74	71.8	70.9
4 33	29.71	74.2	73.7
5 27	29.705	75.2	74.6
6 8	29.70	73.2	72.9
22 13	29.94	56.5	51.9
23 3	29.94	57.0	53.2
0 5	29.94	59.5	54.9
0 44	29.94	60.0	55.9
1 38	29.93	61.0	57.8
25 2 12	29.91	61.0	58.0
4 27	29.89	68.0	61.6
5 34	29.86	64.5	61.9
6 15	29.86	64.0	62.8
22 54	29.85	56.8	56.6
0 14	29.84	60.8	59.6
0 42	29.835	61.5	60.2
1 1	29.83	62.2	61.3
1 30	29.82	62.6	61.7
26 2 16	29.79	64.0	63.9
4 33	29.74	68.8	66.9
5 34	29.71	67.9	67.9
5 53	29.705	67.9	68.0
0 7	29.71	63.0	61.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 5, 16.	Bisections at I, II.
2, 17, 19, 24, 28, 29, 33.	Bisections at VI, VII.
4.	Bisections at I, II, VI.
7, 25.	Bisections at c_5, c_4, c_3, c_2, c_1.
10.	Bisections at II, III, IV, V, VI.
15.	Bisections at c_1, c_3, c_4, c_5.
21.	Bisection at VI.
22.	Bisection at VII.
32.	Bisections at c_1, c_2, c_3, c_4, c_5.
36.	Bisections at II, VI, VII.
38.	Bisections at I, VII.
39.	Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 3.8	—15 54.5	...	—15 50.7
2	+ 3.9	+15 54.4	...	+15 58.3
10	+38 59.4	—16 25.9	...	+22 33.5
13	+ 6.2	....	— 0.8	+ 5.4
16	+ 3.8	+15 55.7	...	+15 59.5
17	+ 3.7	—15 55.7	...	—15 52.0
21	+ 2.5	— 11.2	+ 0.1	— 8.6
22	+ 2.5	+ 11.2	...	+ 13.7
30	+ 6.0	....	— 0.7	+ 5.3
33	+ 3.8	+15 55.4	...	+15 59.2
38	+ 2.5	— 12.2	+ 0.1	— 9.6
39	+ 2.5	+ 12.2	...	+ 14.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ Pegasi	11	8 16.85	− 0.10	−10.69	335 40 7.82	41.535	− 25.4	44.4	0 8	.....	.. ..	....
2	β Ceti	11	38 45.74	− 0.01	−10.85	302 30	......	....	....	0 38	.....	.. ..	....
3	Mercury II, C	11	42 59.69	− 0.07	**−10.80**	322 32 9.60	44.096	− 42.9	**44.1**	0 42 48.82	− 0.24	+ 1 30 16.2	....
4	α Ursæ Minoris	8	22 16.27	− 7.36	[−10.29]	49 46 10.02	45.458	+1 6.4	[44.8]	1 21	.....	.. ..	....
5	β Arietis	11	49 18.52	− 0.14	−10.77	341 20 8.32	45.852	− 18.8	44.2	1 49	.....	.. ..	....
6	γ Andromedæ	11	57 57.33	− 0.21	−10.90	2 52 8.60	44.202	+ 2.9	44.1	1 57	.....	.. ..	....
	April 27, Ei.												
7	Sun I, N	11	17 34.26	− 0.12	**−10.83**	335 8 7.70	44.260	− 25.8	**44.1**	2 17 23.31	+65.71	+14 6 36.5	....
8	Sun II, S	11	19 45.69	− 0.12	**−10.83**	334 36 8.12	44.982	− 26.4	**44.1**	2 19 34.74	−65.72	+13 34 46.1	....
9	α Tauri	11	30 22.86	− 0.13	−10.84	337 20 7.65	43.778	− 23.0	43.3	4 30	.....	.. ..	....
10	ι Aurigæ	11	50 41.13	− 0.18	−10.95	354 2 7.40	42.994	− 5.7	44.0	4 50	.....	.. ..	....
11	β Tauri	11	20 10.52	− 0.16	−10.88	349 32 8.30	45.925	− 10.1	43.6	5 19	.....	.. ..	....
12	Venus I, N	11	27 0.85	− 0.16	**−10.90**	347 36 8.70	48.172	− 12.0	**44.1**	5 26 49.79	+ 0.88	+26 36 4.3	....
13	Venus S	..	.. ..	.....	.....	347 36 8.70	46.920	− 12.0	**44.1**	.. ..	.....	+26 35 40.3	....
14	θ Aurigæ	11	53 6.71	− 0.19	−10.89	358 14 8.72	42.324	− 1.6	44.7	5 52	.....	.. ..	....
15	δ Ursæ Minoris S. P.	9	4 42.76	+ 0.96	[− 9.58]	54 22 10.08	47.795	+1 16.8	[46.5]	18 4	.....	.. ..	....
	April 27, La.												
16	α Andromedæ	11	3 25.23	− 0.19	−11.10	349 34 9.42	42.655	− 10.4	45.4	0 3	.....	.. ..	....
17	γ Pegasi	9	8 17.21	− 0.14	−10.99	335 40 9.58	41.610	− 25.5	45.4	0 8	.....	.. ..	....
18	Mercury II, C	11	47 36.78	− 0.10	**−11.09**	323 0 9.52	43.532	42.3	**45.0**	0 47 25.59	− 0.24	+ 1 58 5.1	....
19	β Andromedæ	11	4 20.02	− 0.22	−11.19	356 6 8.05	45.865	− 3.8	44.4	1 4	.....	.. ..	....
20	α Ursæ Minoris	11	22 18.83	− 8.26	[−11.50]	49 46 9.86	45.464	+1 6.3	[44.9]	1 21	.....	.. ..	....
	April 28, La.												
21	Sun I, S	11	21 21.71	− 0.14	**−11.08**	334 54 9.42	47.840	− 26.0	**44.6**	2 21 10.49	+65.81	+13 53 46.4	....
22	Sun II, N	11	23 33.34	− 0.14	**−11.08**	335 26 9.12	47.445	− 25.4	**44.6**	2 23 22.12	−65.82	+14 25 35.0	....
23	α Tauri	11	30 23.13	− 0.14	−11.10	337 20 8.80	43.798	− 23.1	44.1	4 30	.....	.. ..	....
24	β Orionis	11	9 55.84	− 0.07	−11.10	312 42 8.98	46.795	− 59.7	44.0	5 9	.....	.. ..	....
25	β Tauri	11	20 10.80	− 0.19	−11.14	349 32 8.80	45.910	− 10.2	43.8	5 19	.....	.. ..	....
26	δ Orionis	11	27 5.90	− 0.09	−11.00	320 40 8.95	41.805	− 45.2	43.9	5 26	.....	.. ..	....
27	Venus I, S	11	31 21.99	− 0.18	**−11.05**	347 42 8.40	43.096	− 12.0	**43.8**	5 31 10.76	+ 0.89	+26 40 26.9	....
28	α Orionis	11	49 57.66	− 0.12	−10.91	328 24 8.85	46.539	− 33.9	43.4	5 49	.....	.. ..	....
	May 3, La.												
29	α Andromedæ	11	3 27.55	− 0.14	−13.33	349 34 11.32	42.452	− 10.6	43.7	0 3	.....	.. ..	....
30	γ Pegasi	11	8 19.45	− 0.10	−13.14	335 40 12.65	41.362	− 26.1	44.8	0 8	.....	.. ..	....
31	β Ceti	11	38 48.29	− 0.01	−13.27	302 30 12.42	45.817	−1 30.3	44.4	0 38	.....	.. ..	....
32	β Andromedæ	11	4 22.26	− 0.16	−13.37	356 6 10.65	45.616	− 3.9	42.4	1 4	.....	.. ..	....
33	Mercury C, C	11	18 1.34	− 0.07	**−13.29**	326 12 10.68	46.995	− 38.5	**43.6**	1 17 47.98	− 0.06	+ 5 11 17.9	....
34	α Ursæ Minoris	9	22 22.37	− 7.01	[−13.02]	49 46 12.62	45.110	+1 8.2	[43.4]	1 22	.....	.. ..	....
	May 4, La.												
35	Sun I, N	11	44 18.07	− 0.08	**−13.31**	337 16 14.95	43.023	− 23.9	**43.2**	2 44 4.68	+66.29	+16 14 22.9	....
36	Sun II, S	11	46 30.66	− 0.08	**−13.31**	336 44 17.10	43.997	− 24.5	**43.2**	2 46 17.27	−66.30	+15 42 39.0	....
37	α Tauri	11	30 25.25	− 0.07	−13.31	337 20 9.40	43.654	− 23.7	42.0	4 30	.....	.. ..	....
38	β Orionis	11	9 57.95	− 0.01	−13.31	312 42 9.82	46.788	−1 1.1	42.7	5 9	.....	.. ..	....
39	β Tauri	11	20 12.95	− 0.10	−13.43	349 32 10.02	45.783	− 10.4	42.2	5 19	.....	.. ..	....
40	α Orionis	11	49 59.95	− 0.04	−13.33	328 24 8.38	46.614	− 34.6	43.3	5 49	.....	.. ..	....
41	Venus I, S	11	56 51.53	− 0.09	**−13.36**	347 58 10.32	44.645	− 12.0	**42.4**	5 56 38.08	+ 0.95	+26 56 59.8	....
	May 4, Hd.												
42	α Andromedæ	11	3 27.99	− 0.03	−13.86	349 34 10.72	42.464	− 10.5	43.4	0 3	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
26 1 4	29.70	64.0	63.1
2 1	29.69	65.5	65.1
27 2 20	29.69	65.6	65.9
4 22	29.66	69.5	70.0
5 18	29.63	71.0	71.9
6 12	29.63	72.0	72.9
0 11	29.85	63.0	62.3
0 50	29.85	65.2	64.6
1 33	29.83	67.6	67.4
28 2 24	29.81	69.1	69.2
4 34	29.79	72.6	71.9
5 35	29.785	72.8	72.9
6 5	29.775	72.8	73.1
3 0 6	29.745	51.2	49.1
0 41	29.75	52.2	49.8
1 40	29.75	54.0	52.0
4 2 44	29.71	56.4	53.9
4 34	29.685	59.7	57.5
5 16	29.665	60.2	59.5
6 5	29.65	61.8	60.9

Micrometer bisections are made at I, II VI, VII, except as noted below.

4, 20.	Bisections at c_1, c_2, c_3, c_4, c_5.
5, 23.	Bisections at II, VI, VII.
7, 21, 35.	Bisections at I, II.
8, 22, 31, 36.	Bisections at VI, VII.
12.	Bisections at I, VII.
13.	Bisections at II, VI.
15.	Bisections at c_5, c_4, c_3, c_2, c_1.
16, 39.	Bisections at I, VI, VII.
17.	Bisection at VII.
34.	Bisections at c_3, c_4, c_5, d_1, d_2.
20.	Microscopes read before and after bisections.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 5.9	....	− 0.7	+ 5.2
7	+ 3.6	−15 55.2	...	−15 51.6
8	+ 3.7	+15 55.1	...	+15 58.8
12	+ 2.6	− 12.0	0.0	− 9.4
13	+ 2.6	+ 12.0	...	+ 14.6
18	+ 5.7	....	− 0.7	+ 5.0
21	+ 3.7	+15 54.2	...	+15 57.9
22	+ 3.6	−15 54.3	...	−15 50.7
27	+ 2.6	+ 11.9	...	+ 14.5
33	+ 4.8	....	− 0.5	+ 4.3
35	+ 3.4	−15 51.9	...	−15 48.5
36	+ 3.4	+15 52.0	...	+15 55.4
41	+ 2.7	+ 12.8	...	+ 15.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ Pegasi...........	11	8 20.05	0.00	−13.82	335 40 10.58	41.530	− 26.0	44.3	0 8	.....	.. ..	....
2	β Andromedæ	11	4 22.77	− 0.06	−13.96	356 6 10.55	45.642	− 3.8	43.0	1 4	.....	.. ..	....
3	α Ursæ Minoris....	5	22 24.58	− 3.98	[−17.81]	49 46	......	....	....	1 22	.....	.. ..	....
	May 5, Hd.												
4	Sun I, N	10	48 9.44	− 0.06	**−13.90**	337 32 8.38	47.170	− 23.5	**43.3**	2 47 55.48	+66.35	+16 31 36.2	....
5	Sun II, S	11	50 22.15	− 0.06	**−13.90**	337 0 8.40	48.062	− 24.1	**43.3**	2 50 8.19	−66.36	+15 59 48.8	....
6	α Orionis..........	11	.. ..	.....	.....	328 24 8.60	46.576	− 34.8	42.6	5 49	.....	.. ..	....
7	Venus I, N	11	0 59.16	− 0.14	**−13.92**	347 58 8.30	48.551	− 12.0	**43.3**	6 0 45.10	+ 0.96	+26 58 12.1	....
8	α² Geminorum	11	28 29.18	− 0.16	−14.01	353 8 8.80	42.711	− 6.8	42.6	7 28	.....	.. ..	....
9	β Geminorum	11	39 27.80	− 0.14	−14.00	349 16 7.77	47.866	− 10.6	43.2	7 39	.....	.. ..	....
10	β Cancri	11	11 21.25	− 0.09	−13.83	330 30 7.30	47.244	− 31.9	43.5	8 11	.....	.. ..	....
11	Moon I, N.......	11	36 33.88	− 0.10	**13.94**	334 54 7.12	44.823	− 26.5	**43.3**	8 36 19.84	+63.99	+13 52 44.9	....
12	θ Hydræ	11	9 25.77	− 0.07	−13.93	323 46 7.45	42.965	− 41.5	43.6	9 9	.....	.. ..	....
	May 6, La.												
13	θ Hydræ	11	9 26.45	− 0.12	−14.58	323 46 8.18	42.912	− 41.1	43.7	9 9	.....	.. ..	....
14	α Lyncis	11	15 15.18	− 0.23	−14.74	355 50 6.58	44.000	− 4.0	43.1	9 15	.....	.. ..	....
15	Moon I, N.......	11	24 40.35	− 0.14	**−14.64**	330 50 5.50	44.933	− 31.4	**43.6**	9 24 25.57	+ 62.43	+ 9 48 40.2	....
16	ο Leonis	11	36 5.75	− 0.14	14.54	331 22 6.78	44.641	− 30.7	43.6	9 35	.....	.. ..	....
17	ε Leonis	11	40 27.81	− 0.19	−14.71	345 14 5.92	48.006	− 14.8	44.0	9 40	.....	.. ..	....
	May 7, Ei.												
18	π Leonis	11	55 13.39	− 0.10	−15.23	329 32 7.00	46.569	− 33.3	43.3	9 54	.....	.. ..	....
19	α Leonis	11	3 20.49	− 0 11	−15.21	333 28 6.82	46.135	− 28.3	43.6	10 3	.....	.. ..	....
20	Moon I, N.......	11	10 53.40	− 0 08	**−15.19**	326 24 6.85	46.852	− 37.6	**43.4**	10 10 38.13	+61.41	+ 5 23 12.4	....
21	ρ Leonis	11	27 50.49	− 0.10	−15.14	330 50 7.48	45.926	− 31.6	43.4	10 27	.....	.. ..	....
22	41 Leonis Minoris ..	11	38 16.72	− 0.17	−15.17	344 44	......	....	....	10 38	.....	.. ..	....
23	β Leonis	11	44 15.72	− 0.13	−15.22	336 8 8.25	47.438	− 25.2	43.4	11 44	.....	.. ..	....
	May 7, Hd.												
24	β Andromedæ	11	4 24.76	0.18	−15.77	356 6 7.70	45.897	− 3.7	43.6	1 4	.....	.. ..	....
25	α Ursæ Minoris....	5	22 25.26	− 7.77	[−13.45]	49 46 10.75	45.238	− 1 5.9	[43.8]	1 22	.....	.. ..	....
	May 8, Hd.												
26	Sun I, S..........	11	59 47.44	− 0.16	**−15.70**	337 50 6.98	48.260	− 22.2	**41.4**	2 59 31.58	+66.60	+16 49 59.0	....
27	Sun II, N	11	2 0.65	− 0.16	**−15.70**	338 22 6.55	47.585	− 21.6	**41.4**	3 1 44.79	−66.61	+17 21 42.6	....
28	α Tauri	11	30 27.61	− 0.18	−15.56	337 20 8.02	43.740	− 22.5	41.7	4 30	.....	.. ..	....
29	β Orionis..........	11	10 0.44	− 0.10	15.73	312 42 6.90	46.661	− 58.1	39.8	5 9	.....	.. ..	....
30	β Tauri	11	20 15.41	− 0.25	15.75	349 31 55.60	46.380	− 9.9	39.9	5 19	.....	.. ..	....
31	α Orionis..........	11	50 2.30	− 0.16	−15.59	328 24 9.12	46.409	− 33.0	41.6	5 49	.....	.. ..	....
32	Venus I, S........	11	13 6.80	− 0.24	**15.72**	347 58 7.82	44.634	− 11.4	**40.8**	6 12 50.84	+ 1.00	+26 56 59.3	....
33	γ Geminorum	11	32 13.35	− 0.19	−15.69	337 30 6.95	45.211	− 22.2	40.3	6 31	.....	.. ..	....
34	α² Geminorum	11	28 31.08	− 0.26	−15.85	353 8 8.10	42.639	− 6.4	40.9	7 28	.....	.. ..	....
35	β Geminorum	11	39 29.65	− 0.24	−15.79	349 16 7.77	47.651	− 10.1	39.6	7 39	.....	.. ..	....
36	α Leonis	11	3 21.05	− 0.18	−15.71	333 28 7.12	45.844	− 26.9	39.6	10 3	.....	.. ..	....
37	ρ Leonis	11	27 51.14	− 0.17	−15.74	330 50 6.82	45.721	− 30.1	40.2	10 27	.....	.. ..	....
38	l Leonis	11	44 18.50	− 0.18	−15.69	332 6 7.40	43.140	− 28.6	41.6	10 44	.....	.. ..	....
39	Moon I, N.......	11	56 6.63	− 0.15	**−15.72**	321 48 23.00	42.623	− 42.5	**40.6**	10 55 50.76	+61.00	+ 0 46 5.5	....
40	τ Leonis	11	23 6.27	− 0.16	−15.73	324 26 7.92	43.349	− 38.7	41.1	11 22	.....	.. ..	....
	May 9, Ei.												
41	υ Leonis	11	32 8.78	− 0.07	−16.26	320 44 8.00	47.792	− 46.9	42.4	11 31	.....	.. ..	....
42	Moon I, N.......	11	41 14.37	− 0.06	**−16.22**	317 8 4.07	45.091	− 53.2	**42.6**	11 40 58.09	+61.19	− 3 53 39.0	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
4 0 14	29.80	54.1	52.9
1 10	29.85	56.0	54.4
5 2 50	29.89	59.0	58.0
5 45	29.86	62.5	61.1
7 45	29.85	62.5	62.1
8 44	29.84	61.5	61.0
9 15	29.84	60.5	60.4
6 8 44	29.795	66.0	65.0
9 43	29.80	63.8	62.7
7 9 51	30.00	65.0	63.0
11 5	29.99	62.5	60.8
11 49	29.99	61.0	59.0
1 17	29.81	68.4	69.4
2 24	29.79	71.2	74.3
8 3 2	29.77	73.4	77.9
4 35	29.72	79.0	83.7
5 26	29.70	83.7	85.5
6 18	29.67	84.5	86.4
7 44	29.63	84.0	85.9
10 10	29.59	81.5	80.9
11 28	29.59	78.8	78.9
9 11 28	29.71	55.0	51.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 5, 24, 28.	Bisections at VI, VII.
4, 26.	Bisections at I, II.
11, 15, 20, 42.	Bisections at II, III, IV, V, VI.
25.	Bisections at c_1, c_2, c_3, c_4.
27.	Bisection at VI.
30.	Bisections at II, VI, VII.
39.	Bisections at III, IV, V.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 3.3	−15 53.7	...	−15 50.4
5	+ 3.4	+15 53.6	...	+15 57.0
7	+ 2.7	− 12.9	0.0	− 10.2
11	+23 4.2	−15 0.5	...	+ 8 3.7
15	+26 19.6	−14 53.1	...	+11 26.5
20	+29 46.5	−14 48.6	...	+14 57.9
26	+ 3.3	+15 51.7	...	+15 55.0
27	+ 3.2	−15 51.8	...	−15 48.6
32	+ 2.8	+ 13.4	...	+ 16.2
39	+33 15.8	−14 47.1	...	+18 28.7
42	+36 40.0	−14 48.3	...	+21 51.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Corvi	11	5 18.12	+ 0.01	−16.26	298 58 7.80	45.777	−1 43.4	43.3	12 5	.....	....	....
2	γ Corvi	11	10 58.98	− 0.01	−16.24	304 2 8.25	46.747	−1 24.9	42.4	12 10	.....	....	....
3	η Virginis	11	15 6.53	− 0.07	−16.15	320 54 8.55	46.639	− 46.7	42.5	12 14	.....	....	....
4	α Ursæ Minoris S.P.	9	22 13.94	+ 7.25	[−16.39]	52 12 9.12	48.105	+1 14.6	[42.5]	1 22	.....	....	....
5	*m* Virginis	11	36 41.28	− 0.04	−16.21	312 50 8.67	43.591	−1 2.2	42.4	13 36	.....	....	....
	May 9, Hd.												
6	α Andromedæ	11	3 30.84	0.09	−16.52	349 34 9.55	42.450	− 10.7	41.6	0 3	.....	....	....
7	γ Pegasi	11	8 22.76	− 0.06	−16.35	335 40 9.62	41.513	− 26.3	43.3	0 8	.....	....	....
8	β Ceti	11	38 51.60	− 0.02	−16.49	302 30 9.02	45.938	−1 30.8	43.0	0 38	.....	....	....
9	β Andromedæ	11	4 25.49	− 0.10	−16.53	356 6 8.90	45.621	− 3.9	41.0	1 4	.....	....	....
10	α Ursæ Minoris	11	22 25.55	− 4.78	[−15.70]	49 46 10.92	45.005	+1 8.6	[42.7]	1 22	.....	....	....
	May 10, Hd.												
11	Sun I, N	11	7 34.84	− 0.04	**16.51**	338 54 8.75	47.175	− 22.1	**41.8**	3 7 18.29	+66.80	+17 53 39.5	....
12	Sun II, S	11	9 48.44	− 0.04	−**16.51**	338 22 9.30	48.310	− 22.7	**41.8**	3 9 31.89	−66.80	+17 21 57.4	....
13	β Tauri	11	20 16.05	− 0.04	−16.61	349 32 8.85	45.784	− 10.5	41.8	5 19	.....	....	....
14	α Orionis	11	50 2.98	+ 0.01	−16.45	328 24 8.40	46.652	− 34.8	42.1	5 49	.....	....	....
15	Venus I, S	11	20 56.92	− 0.03	−**16.55**	347 54 8.78	47.246	− 12.1	**41.8**	6 20 40.34	+ 1.02	+26 53 48.8	....
16	γ Geminorum	11	32 13.93	0.01	−16.47	337 30 8.95	45.186	− 23.4	40.7	6 31	.....	....	....
17	ϛ Geminorum	11	46 30.24	0.05	−16.68	355 6 8.18	43.999	− 4.8	41.2	6 46	.....	....	....
18	ο Virginis	11	0 26.36	− 0.09	−16.51	330 18 9.40	45.935	− 32.8	43.2	12 0	.....	....	....
19	η Virginis	11	15 6.97	− 0.06	−16.61	320 54 8.55	46.688	− 46.7	43.5	12 14	.....	....	....
20	Moon I, N	11	27 10.33	− 0.04	−**16.52**	312 34 14.20	47.148	−1 2.5	**43.5**	12 26 53.77	+61.99	− 8 26 59.5	....
21	γ Virginis (*mean*)	11	36 55.19	− 0.06	−16.52	320 8 8.18	42.439	− 48.0	43.7	12 36	.....	....	....
22	ε Virginis	11	57 31.51	− 0.09	−16.46	332 30 8.85	47.419	− 29.9	43.5	12 57	.....	....	....
23	α Ursæ Minoris S.P.	8	22 8.85	+ 5.42	[− 8.90]	52 12 4.28	48.466	+1 14.4	[44.1]	1 22	.....	....	....
	May 13, Br.												
24	β Ceti	8	38 53.75	− 0.08	−18.45	302 30 7.50	45.690	−1 25.5	42.7	0 38	.....	....	....
25	β Andromedæ	11	4 27.75	0.34	−18.45	356 6 7.15	45.731	− 3.7	41.7	1 4	.....	....	....
26	α Ursæ Minoris	9	22 37.24	− 9.98	[−19.39]	49 46 9.31	45.244	+1 4.5	[42.7]	1 22	.....	....	....
27	β Arietis	8	49 26.57	− 0.26	−18.43	341 20 8.28	45.778	− 18.3	42.0	1 49	.....	....	....
28	α Arietis	11	1 51.75	0.27	−18.39	344 0 7.95	46.205	− 15.5	41.3	2 1	.....	....	....
29	Mercury C, C	11	19 17.30	− 0.22	−**18.43**	332 50 7.60	45.366	− 27.8	**41.7**	2 18 58.65	− 0.03	+11 48 56.0	....
	May 14, Br.												
30	Sun I, S	11	23 17.24	− 0.25	−**18.42**	339 24 7.30	42.950	− 20.3	**41.5**	3 22 58.57	+67.13	+18 22 19.0	....
31	Sun II, N	11	25 31.50	− 0.25	−**18.42**	339 56 7.08	42.130	− 19.7	**41.5**	3 25 12.83	−67.13	+18 53 59.9	....
32	α Orionis	11	50 5.06	− 0.20	−18.34	328 24 6.40	46.560	− 33.0	41.5	5 49	.....	....	....
33	μ Geminorum	11	17 14.69	− 0.27	−18.44	343 34 6.88	47.582	− 15.8	41.1	6 16	.....	....	....
34	γ Geminorum	11	32 16.02	− 0.24	−18.36	337 30 6.02	45.303	− 22.2	40.5	6 31	.....	....	....
35	Venus I, S	11	35 58.95	− 0.29	−**18.41**	347 42 6.30	46.795	− 11.6	**40.8**	6 35 40.25	+ 1.08	+26 41 39.0	....
36	Venus N		.. ..	.....	.....	347 42 6.30	48.272	− 11.6	**40.8**	.. ..	.....	+26 42 7.7	....
37	α² Geminorum	11	28 33.73	− 0.32	−18.52	353 8 5.88	42.701	− 6.4	40.1	7 28	.....	....	....
38	ε Serpentis	11	46 11.55	− 0.14	−18.25	325 48 7.52	44.809	− 37.5	43.7	15 45	.....	....	....
39	Moon II, S	11	54 59.35	− 0.06	−**18.22**	298 44 7.10	45.316	−1 40.4	**43.7**	15 54 41.07	−68.47	−22 18 19.9	....
40	β¹ Scorpii	11	59 59.31	− 0.07	−18.21	301 30 6.85	45.661	−1 29.8	43.5	15 59	.....	....	....
41	δ Ophiuchi	11	9 28.05	− 0.12	−18.22	317 36 7.92	42.598	− 50.4	43.9	16 9	.....	....	....
42	Jupiter I, S	6	24 0.83	− 0.06	−**18.21**	300 22 7.42	40.712	−1 34.0	**44.4**	16 23 42.56	+ 1.62	−20 41 41.5	....
43	Jupiter II, N	5	24 4.08	− 0.06	−**18.21**	300 22 7.42	43.025	−1 34.0	**44.4**	16 23 45.81	− 1.63	−20 40 57.6	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
9	12	22	29.73	53.0	50.8
	13	26	29.74	52.5	50.1
	13	43	29.74	52.0	49.4
	0	15	29.93	52.2	48.9
	1	14	29.94	54.0	51.4
	2	2	29.93	56.0	53.4
10	3	10	29.91	57.2	54.9
	5	23	29.88	62.0	59.4
	6	24	29.86	62.2	61.9
	6	50	29.85	62.2	61.9
	11	50	29.92	55.2	54.7
	12	42	29.92	54.5	54.0
	13	16	29.92	54.0	53.8
13	0	34	29.92	78.8	79.9
	1	10	29.92	81.1	81.9
	1	34	29.92	82.0	82.5
	2	23	29.91	84.0	84.5
14	3	26	29.90	85.3	85.7
	5	45	29.87	89.9	88.7
	6	24	29.855	89.5	89.2
	6	40	29.85	89.1	89.2
	7	32	29.835	88.5	89.1
	15	51	29.80	72.5	72.2
	16	19	29.80	72.1	72.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 23.	Bisections at c_5, c_4, c_3, c_2, c_1.
7, 34.	Bisections at II, VI, VII.
10, 26.	Bisections at c_1, c_2, c_3, c_4, c_5.
11, 24, 30.	Bisections at I, II.
12, 14, 27, 31.	Bisections at VI, VII.
20.	Bisections at III, IV, V.
35, 42.	Bisections at I, VII.
36, 43.	Bisections at II, VI.
39.	Bisections at II, III, IV, V, VI.
26.	Microscopes read before and after bisections.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
11	+ 3.1	−15 51.0	...	−15 47.9
12	+ 3.2	+15 51.0	...	+15 54.2
15	+ 2.9	+ 13.7	...	+ 16.6
20	+39 52.5	−14 51.8	...	+25 0.7
29	+ 3.4	....	− 0.2	+ 3.2
30	+ 3.0	+15 50.4	...	+15 53.4
31	+ 3.0	−15 50.5	...	−15 47.5
35	+ 3.1	+ 14.4	...	+ 17.5
36	+ 3.1	− 14.4	+ 0.1	− 11.2
39	+49 8.0	+15 21.1	...	+64 29.1
42	+ 1.7	+ 22.0	...	+ 23.7
43	+ 1.7	− 21.9	...	− 20.2

No.	Date, observer, and object.	Thds.	Mean thread.	Inst. corr.	Clock corr.	Circle reading.	Microm. reading.	Refraction.	Eq. pt. from stars.	Apparent R. A.	Misc. corr.	Apparent decl.	Misc. corr.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ζ Ophiuchi	11	32 0.95	− 0.10	−18.20	310 40 4.95	44.695	−1 4.2	44.2	16 31	.....	.. ..	....
2	κ Ophiuchi	..	.. ..	.....	.....	330 34 6.10	41.936	− 31.2	44.8	16 52	.....	.. ..	....
3	η Ophiuchi	11	5 0.42	− 0.08	−18.19	305 26 5.80	44.890	−1 17.6	44.3	17 4	.....	.. ..	....
	May 14, Hd.												
4	β Ceti	11	38 53.53	+ 0.04	−18.33	302 30 4.92	45.902	−1 25.0	42.8	0 38	.....	.. ..	....
5	β Andromedæ	11	4 27.62	− 0.20	−18.44	356 6 4.92	45.879	− 3.6	42.4	1 4	.....	.. ..	....
6	α Ursæ Minoris	10	22 35.31	− 8.47	[−18.18]	49 46 7.28	45.413	−1 4.1	[43.7]	1 22	.....	.. ..	....
7	β Arietis	11	49 26.43	− 0.14	−18.39	341 20 6.38	45.808	− 18.2	42.3	1 49	.....	.. ..	....
8	α Arietis	11	1 51.61	− 0.16	−18.34	344 0 6.50	46.378	− 15.4	43.2	2 1	.....	.. ..	....
	May 15, Hd.												
9	Sun I, N	11	27 13.62	− 0.16	**−18.34**	340 10 4.15	43.015	− 19.3	**42.1**	3 26 55.12	+67.17	−19 8 17.5	....
10	Sun II, S	10	29 27.95	− 0.16	**18.34**	339 38 4.52	44.320	− 19.9	**42.1**	3 29 9.45	−67.16	+18 36 38.4	....
11	μ Geminorum	11	17 14.42	− 0.21	−18.24	343 34	......	....	....	6 16	.....	.. ..	....
12	γ Geminorum	11	32 15.77	− 0.18	18.18	337 30 3.18	45.486	− 22.0	42.0	6 31	.....	.. ..	....
13	Venus I, S	11	39 34.72	− 0.23	**−18.28**	347 38 4.95	46.222	− 11.6	**41.3**	6 39 16.21	+ 1.09	+26 37 26.3	....
14	δ Geminorum	10	14 29.13	− 0.20	−18.31	343 12 5.42	41.540	− 16.0	40.6	7 14	.....	.. ..	....
15	α² Geminorum	11	28 33.46	− 0.26	−18.32	353 8 4.75	42.795	− 6.4	40.8	7 28	.....	.. ..	....
16	β Geminorum	11	39 32.11	− 0.24	−18.34	349 16 4.65	47.888	− 10.0	41.2	7 39	.....	.. ..	....
	May 15, B.												
17	δ Leonis	11	9 8.46	− 0.29	−18.10	342 6	......	....	....	11 8	.....	.. ..	....
18	σ Leonis	11	16 19.61	− 0.24	−17.97	327 36	......	....	....	11 16	.....	.. ..	....
19	τ Leonis	11	23 8.49	− 0.24	−17.94	324 26	......	....	....	11 22	.....	.. ..	....
20	υ Leonis	11	32 10.65	− 0.22	−18.03	320 44	......	....	....	11 31	.....	.. ..	....
21	β Leonis	11	44 18.51	− 0.27	−17.95	336 8	......	....	....	11 44	.....	.. ..	....
22	τ Virginis	11	56 54.77	− 0.13	−18.06	323 4	......	....	....	13 56	.....	.. ..	....
23	d Bootis	11	6 11.69	− 0.21	−17.96	346 34	......	....	....	14 5	.....	.. ..	....
24	κ Virginis	11	7 55.15	− 0.10	−18.01	311 14	......	....	....	14 7	.....	.. ..	....
25	ι Virginis	11	11 7.65	− 0.11	−18.07	315 30	......	....	....	14 10	.....	.. ..	....
26	ρ Bootis	11	27 52.54	− 0.23	−17.97	351 50	......	....	....	14 27	.....	.. ..	....
	May 15, Hd.												
27	δ Scorpii	11	54 47.05	+ 0.04	−18.08	298 42 34.02	43.701	−1 39.5	43.4	15 54	.....	.. ..	....
28	β¹ Scorpii	11	59 59.07	+ 0.03	−18.06	301 30 34.40	44.132	−1 29.1	42.4	15 59	.....	.. ..	....
29	δ Ophiuchi	11	9 27.81	− 0.03	−18.06	317 36 7.28	42.645	− 50.0	44.5	16 9	.....	.. ..	....
30	Jupiter I, N	6	23 30.35	+ 0.03	**−18.07**	300 22 4.60	46.560	−1 33.4	**44.2**	16 23 12.31	+ 1.63	−20 39 49.8	....
31	Jupiter II, S	5	23 33.62	+ 0.03	**−18.07**	300 22 4.60	44.478	−1 33.5	**44.2**	16 23 15.58	− 1.64	−20 40 32.0	....
32	Uranus C, C	10	38 38.64	+ 0.04	**−18.08**	298 58 5.60	44.345	−1 39.1	**44.2**	16 38 20.60	.....	−22 4 39.0	....
33	Moon II, S	11	52 48.38	+ 0.04	**−18.08**	297 44 6.68	44.956	−1 44.5	**44.2**	16 52 30.34	−69.69	−23 18 32.0	....
34	η Ophiuchi	11	5 0.26	+ 0.01	−18.10	305 26 8.10	44.814	−1 17.5	45.3	17 4	.....	.. ..	....
35	θ Ophiuchi	11	16 13.95	+ 0.05	−18.09	296 8 7.82	46.965	−1 52.0	44.8	17 15	.....	.. ..	....
36	δ Ursæ Minoris	11	4 58.45	− 2.08	[−18.09]	47 36 9.62	46.176	+1 0.8	[44.2]	18 4	.....	.. ..	....
37	Saturn I, N	6	18 36.67	+ 0.04	**−18.10**	298 40 6.70	48.028	−1 40.6	**44.2**	18 18 18.61	+ 0.62	−22 21 28.5	....
38	Saturn II, S	5	18 37.92	+ 0.04	**−18.10**	298 40 6.70	47.132	−1 40.6	**44.2**	18 18 19.86	− 0.63	−22 21 46.0	....
39	ι Aquilæ	11	30 7.25	− 0.01	−18.08	312 42 8.25	47.948	− 59.8	44.9	18 29	.....	.. ..	....
	May 15, Br.												
40	β Ceti	11	38 53.35	+ 0.02	−18.11	302 30 6.68	45.845	−1 25.5	43.4	0 38	.....	.. ..	....
41	β Andromedæ	10	4 27.34	− 0.22	−18.10	356 6 5.80	45.970	− 3.7	43.4	1 4	.....	.. ..	....
42	α Ursæ Minoris	10	22 37.05	− 8.06	[−19.58]	49 46 8.98	45.289	−1 4.6	[43.7]	1 22	.....	.. ..	....
43	α Arietis	8	1 51.47	− 0.17	−18.17	344 0 7.52	46.240	− 15.5	41.4	2 1	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
14 17 11	29.805	71.8	71.1
0 35	29.87	80.4	81.7
1 17	29.88	83.5	84.5
2 8	29.88	85.5	85.9
15 3 29	29.86	88.0	89.3
6 12	29.82	91.0	91.9
6 47	29.815	91.5	92.4
7 44	29.80	91.5	92.5
15 45	29.81	77.5	78.1
16 59	29.80	73.5	72.1
17 50	29.80	72.3	71.5
18 40	29.80	72.5	73.4
0 43	29.87	79.5	78.7
1 8	29.875	81.0	79.9
1 33	29.88	82.4	81.3
2 4	29.88	83.9	83.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1. Bisections at II, VI, VII.
6, 36, 42. Bisections at c_1, c_2, c_3, c_4, c_5.
9. Bisections at I, II.
10, 41. Bisections at VI, VII.
14. Bisections at I, II, VII.
30. Bisection at I.
31, 38. Bisections at II, VI.
33. Bisections at III, IV, V, VI.
37. Bisections at I, VII.
40. Bisections at I, II, VI.
42. Microscopes read before and after bisections.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
9	+ 2.9	−15 49.5	...	−15 46.6
10	+ 3.0	+15 49.5	...	+15 52.5
13	+ 3.2	+ 14.7	0.0	+ 17.9
30	+ 1.7	− 21.1	...	− 19.4
31	+ 1.7	+ 21.1	...	+ 22.8
32	+ 0.4	....	...	+ 0.4
33	+50 4.3	+15 29.8	...	+65 34.1
37	+ 0.9	− 8.7	...	− 7.8
38	+ 0.9	+ 8.8	...	+ 9.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	May 16, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N	11	31 10.41	− 0.18	**−18.05**	340 24 12.50	42.610	− 19.1	**42.2**	3 30 52.18	+67.29	+19 22 17.9	....
2	Sun II, S	11	33 24.98	− 0.18	**−18.05**	339 52 20.12	43.204	− 19.7	**42.2**	3 33 6.75	−67.28	+18 50 32.7	....
3	β Tauri	11	20 17.65	− 0.25	−18.00	349 32 5.88	45.879	− 9.8	41.7	5 19	.....	.. ..	....
4	ε Orionis	11	31 27.28	− 0.13	−17.95	319 46 5.90	43.324	− 45.2	42.0	5 31	.....	.. ..	....
5	α Orionis	4	50 4.59	− 0.17	−17.90	328 24 4.48	46.656	− 32.8	41.4	5 49	.....	.. ..	....
6	Venus I, S	11	43 6.60	− 0.26	**−17.96**	347 34 5.35	44.278	− 11.8	**41.6**	6 42 48.38	+ 1.11	+26 32 48.7	....
7	Venus N	..	.. ..	.....	.....	347 34 5.35	45.802	− 11.7	**41.6**	.. ..	.....	+26 33 18.3	....
8	α² Geminorum	11	28 33.16	− 0.30	−17.99	353 8 5.25	42.814	− 6.4	41.7	7 28	.....	.. ..	....
9	ε Serpentis	11	46 11.19	− 0.13	−17.88	325 48 7.62	44.984	− 38.5	45.9	15 45	.....	.. ..	....
10	δ Scorpii	11	54 47.03	− 0.08	−17.93	298 42 6.40	45.545	−1 43.1	47.5	15 54	.....	.. ..	....
11	β¹ Scorpii	11	59 59.11	− 0.08	−17.98	301 30 6.10	45.988	−1 32.2	46.7	15 59	.....	.. ..	....
12	δ Ophiuchi	11	9 27.72	− 0.12	−17.86	317 36 7.20	42.831	− 51.8	46.1	16 9	.....	.. ..	....
13	Jupiter I, S	6	22 59.35	− 0.08	**−17.91**	300 24 6.75	41.885	−1 36.4	**46.6**	16 22 41.36	+ 1.68	−20 39 24.4	....
14	Jupiter II, N	5	23 2.70	− 0.08	**−17.91**	300 24 6.75	44.130	−1 36.4	**46.6**	16 22 44.71	− 1.67	−20 38 41.8	....
	May 17, Hd.												
15	ε Serpentis	11	46 10.72	+ 0.01	−17.53	325 48 6.60	44.811	− 37.6	42.3	15 45	.....	.. ..	....
16	δ Scorpii	11	54 46.54	+ 0.16	−17.67	298 42 5.95	45.216	−1 40.7	43.1	15 54	.....	.. ..	....
17	δ Ophiuchi	11	9 27.25	+ 0.05	−17.55	317 36 6.98	42.610	− 50.5	42.8	16 9	.....	.. ..	....
18	Jupiter I, S	6	22 28.08	+ 0.15	**−17.59**	300 24 5.70	45.132	−1 34.1	**42.6**	16 22 10.64	+ 1.63	−20 38 17.2	....
19	Jupiter II, N	5	22 31.34	+ 0.15	**−17.59**	300 24 5.70	47.362	−1 34.0	**42.6**	16 22 13.90	− 1.63	−20 37 34.3	....
20	Uranus C, C	11	38 18.15	+ 0.16	**−17.59**	298 58 5.52	46.268	−1 39.6	**42.6**	16 38 0.72	.....	−22 4 1.1	....
21	κ Ophiuchi	11	53 16.83	− 0.02	−17.49	330 34 6.98	41.776	− 31.3	41.9	16 52	.....	.. ..	....
22	η Ophiuchi	11	4 59.74	+ 0.12	−17.65	305 26 6.52	44.786	−1 17.7	42.9	17 4	.....	.. ..	....
23	θ Ophiuchi	11	16 13.46	+ 0.17	−17.67	296 8 5.40	47.035	−1 52.4	43.4	17 15	.....	.. ..	....
24	μ Herculis	11	42 53.32	− 0.10	−17.59	348 48 6.78	43.628	− 11.0	42.0	17 42	.....	.. ..	....
25	δ Ursæ Minoris	8	4 58.60	− 3.14	[−16.92]	47 36 8.38	46.160	+1 1.0	[42.5]	18 4	.....	.. ..	....
26	Saturn I, S	5	18 10.69	+ 0.16	**−17.60**	298 40 6.15	46.485	−1 41.0	**42.6**	18 17 53.25	+ 0.64	−22 21 57.6	....
27	Saturn II, N	5	18 11.96	+ 0.16	**−17.60**	298 40 6.15	47.408	−1 41.0	**42.6**	18 17 54.52	− 0.63	−22 21 40.0	....
28	1 Aquilæ	11	30 6.71	+ 0.07	−17.57	312 42 7.32	47.902	−1 0.0	42.7	18 29	.....	.. ..	....
29	Moon II, N	11	51 15.93	+ 0.15	**−17.60**	300 14 6.02	42.925	−1 34.8	**42.6**	18 50 58.48	−70.01	−20 49 0.0	....
	May 19, B.												
30	δ Leonis	10	9 7.34	− 0.06	−17.26	342 6	......	....	....	11 8	.....	.. ..	....
31	ν Ursæ Majoris	9	13 24.89	− 0.12	−17.41	354 38	......	....	....	11 13	.....	.. ..	....
32	σ Leonis	11	16 18.69	0.00	−17.33	327 36	......	....	....	11 16	.....	.. ..	....
33	υ Leonis	9	32 9.71	+ 0.03	−17.39	320 44	......	....	....	11 31	.....	.. ..	....
34	β Leonis	11	44 17.54	− 0.03	−17.27	336 8	......	....	....	11 44	.....	.. ..	....
35	β Virginis	11	45 49.23	+ 0.02	−17.42	323 22	......	....	....	11 45	.....	.. ..	....
36	β Canum Venat	11	29 20.13	− 0.16	−17.34	2 54	......	....	....	12 29	.....	.. ..	....
37	25 Canum Venat	7	33 21.67	− 0.13	−17.20	357 50	......	....	....	13 33	.....	.. ..	....
38	m Virginis	3	36 42.39	+ 0.06	−17.43	312 50	......	....	....	13 36	.....	.. ..	....
39	η Bootis	11	50 15.89	− 0.05	−17.35	339 54	......	....	....	13 49	.....	.. ..	....
40	d Bootis	11	6 10.99	− 0.08	−17.41	346 34	......	....	....	14 5	.....	.. ..	....
	May 20, B.												
41	ν Ursæ Majoris	9	13 25.02	− 0.16	−17.52	354 38	......	....	....	11 13	.....	.. ..	....
42	σ Leonis	11	16 18.85	− 0.07	−17.43	327 36	......	....	....	11 16	.....	.. ..	....
43	τ Leonis	11	23 7.75	− 0.06	−17.43	324 26	......	....	....	11 22	.....	.. ..	....
44	β Leonis	11	44 17.75	− 0.09	−17.43	336 8	......	....	....	11 44	.....	.. ..	....
45	β Virginis	11	45 49.38	− 0.05	−17.50	323 22	......	....	....	11 45	.....	.. ..	....
46	π Virginis	11	56 5.12	− 0.07	−17.41	328 12	......	....	....	11 55	.....	.. ..	....
	May 20, Br.												
47	β Arietis	11	49 25.91	− 0.10	−17.79	341 20 9.10	45.638	− 19.1	40.7	1 49	.....	.. ..	....
48	α Arietis	..	.. ..	.....	.....	344 0 9.30	46.104	− 16.2	39.8	2 1	.....	.. ..	....
49	β Persei	11	1 58.84	− 0.14	−17.99	1 36 7.95	41.560	+ 1.6	39.9	3 1	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
16 3 31	29.86	86.8	87.1
5 23	29.845	90.7	89.9
5 56	29.84	91.9	90.3
6 49	29.83	90.4	90.0
7 32	29.825	89.0	88.8
15 40	29.84	64.0	60.2
16 13	29.84	62.8	59.3
16 43	29.835	62.1	58.9
17 15 35	29.74	71.5	70.1
16 30	29.72	71.0	69.4
17 20	29.70	70.0	68.6
17 48	29.70	69.5	68.1
19 8	29.69	69.5	68.7
20 1 53	29.695	58.5	57.0
2 7	29.70	59.3	58.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1.	Bisection at II.
2.	Bisections at VI, VII.
6, 13, 18, 26.	Bisections at I, VII.
7, 14, 19, 27.	Bisections at II, VI.
25.	Bisections at c_1, c_2, c_3.
29.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 2.9	−15 52.6	...	−15 49.7
2	+ 3.0	+15 52.5	...	+15 55.5
6	+ 3.3	+ 14.8	0.0	+ 18.1
7	+ 3.3	− 14.8	...	− 11.5
13	+ 1.7	+ 21.3	...	+ 23.0
14	+ 1.7	− 21.3	...	− 19.6
18	+ 1.7	+ 21.4	...	+ 23.1
19	+ 1.7	− 21.5	...	− 19.8
20	+ 0.4	....	...	+ 0.4
26	+ 0.9	+ 8.8	...	+ 9.7
27	+ 0.9	− 8.8	...	− 7.9
29	+49 44.5	−15 46.4	...	+33 58.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Mercury C, C	11	11 21.91	— 0.11	**—17.87**	337 54 8.10	41.971	— 22.8	**40.2**	3 11 3.93	— 0.01	+16 51 58.1	....
	May 21, Br.												
2	Sun I, S	6	51 4.21	— 0.12	**—17.86**	340 56 8.08	47.118	— 19.4	**40.2**	3 50 46.23	+67.59	+19 55 41.9	....
3	Sun II, N	11	53 19.39	— 0.12	**—17.85**	341 28 12.52	46.000	— 18.8	**40.2**	3 53 1.42	—67.60	+20 27 21.6	....
4	α Orionis	11	50 4.34	— 0.13	—17.70	328 24 7.70	46.535	— 33.5	41.3	5 49	.....	.. ..	....
5	γ Geminorum	11	32 15.25	— 0.16	—17.70	337 30 7.40	45.214	— 23.0	39.9	6 31	.....	.. ..	....
6	ε Geminorum	11	38 6.20	0.18	—17.84	346 14 8.10	47.098	— 13.6	39.8	6 37	.....	.. ..	....
7	Venus I, N	11	59 43.11	- 0.19	**—17.80**	347 4 8.12	47.535	— 12.7	**40.2**	6 59 25.12	+ 1.18	+26 3 54.6	....
8	Venus S	..	.. ..	.....	.....	347 4 8.12	45.862	— 12.7	**40.2**	. .. .	.....	+26 3 22.6	....
9	α^2 Geminorum	9	28 32.95	- 0.22	—17.91	353 8 7.22	42.552	— 6.7	40.2	7 28	.....	.. ..	....
	May 21, B.												
10	δ Leonis	11	9 7.88	— 0.20	—17.68	342 6	......	....	....	11 8	.....	.. ..	....
11	ν Ursæ Majoris	11	13 25.32	0.24	—17.76	354 38	......	....	....	11 13	.....	.. ..	....
12	σ Leonis	11	16 19.16	- 0.16	—17.67	327 36	......	....	....	11 16	.....	.. ..	....
13	τ Leonis	11	23 8.08	— 0.15	—17.68	324 26	......	....	....	11 22	.....	.. ..	....
14	υ Leonis	11	32 10.12	— 0.14	—17.65	320 44	......	....	....	11 31	.....	.. ..	....
15	β Leonis	11	44 17.98	— 0.18	—17.58	336 8	......	....	....	11 44	.....	.. ..	....
16	δ Virginis	11	50 54.67	- 0.13	—17.69	324 58	......	....	....	12 50	.....	.. ..	....
17	ε Virginis	11	57 32.63	— 0.15	—17.59	332 30	......	....	....	12 57	.....	.. ..	....
18	θ Virginis	11	5 7.16	— 0.11	—17.65	316 2	......	....	....	13 4	.....	.. ..	....
19	43 Comæ Berenices .	11	7 33.28	— 0.20	—17.69	349 24	......	....	....	13 7	.....	.. ..	....
20	α Virginis	11	20 16.42	0.09	—17.66	310 24	......	....	....	13 19	.....	.. ..	....
21	ι Virginis	11	11 7.32	— 0.09	—17.75	315 30	......	....	....	14 10	.....	.. ..	....
22	ρ Bootis	11	27 52.34	— 0.18	—17.82	351 50	......	...	....	14 27	.....	.. ..	....
23	μ Virginis	11	38 8.64	— 0.09	—17.80	315 48	......	....	....	14 37	.....	.. ..	....
24	ε Bootis	11	40 58.25	— 0.17	—17.75	348 30	......	....	....	14 40	.....	.. ..	....
25	Piazzi XIV, 221 ..	11	51 51.06	— 0.14	—17.66	335 52	......	....	....	14 51	.....	.. ..	....
26	β Bootis	11	58 31.84	— 0.20	—17.75	1 48	......	....	....	14 58	.....	.. ..	....
	May 21, Br.												
27	γ Aquarii	10	16 49.74	— 0.05	—18.07	319 8 9.02	45.699	— 49.7	41.6	22 16	.....	.. ..	....
28	η Aquarii	11	30 33.28	— 0.05	—18.11	320 24 8.58	44.029	— 47.4	41.9	22 30	.....	.. ..	....
29	Moon II, N	11	37 4.92	— 0.05	**—18.08**	317 26 8.48	46.069	— 52.6	**41.9**	22 36 46.79	—67.36	— 3 35 14.5	....
30	λ Aquarii	11	47 43.99	— 0.04	—18.12	312 56 8.35	42.656	—1 1.5	42.3	22 47	.....	.. ..	....
31	α Pegasi	11	0 6.67	— 0.08	—18.00	335 42 8.30	42.684	— 25.8	41.8	22 59	.....	.. ..	....
	May 21, Hd.												
32	β Ceti	11	38 53.52	+ 0.13	—18.24	302 30 7.70	45.997	—1 28.2	41.9	0 38	.....	.. ..	....
33	β Andromedæ	7	4 27.48	— 0.01	—18.28	356 6 8.48	45.638	— 3.8	41.3	1 4	.....	.. ..	....
34	α Ursæ Minoris	11	22 32.82	— 2.08	[—17.33]	49 46 10.40	44.935	+1 6.6	[41.5]	1 22	.....	.. ..	....
35	β Arietis	11	49 26.26	0.00	—18.22	341 20 7.38	45.728	— 18.8	40.9	1 49	.....	.. ..	....
36	α Arietis	11	1 51.51	— 0.02	—18.24	344 0 9.05	46.145	— 16.0	40.4	2 1	.....	.. ..	....
37	Mercury C, C	11	19 31.05	— 0.04	**—18.19**	338 36 8.32	43.150	— 21.8	**41.3**	3 19 12.82	— 0.01	+17 34 19.6	....
	May 22, Hd.												
38	Sun I, N	11	55 5.06	— 0.07	**—18.17**	341 40 8.58	45.975	— 18.4	**41.3**	3 54 46.82	+67.65	+20 39 20.3	....
39	Sun II, S	11	57 20.36	— 0.07	**—18.17**	341 8 8.10	47.448	— 18.9	**41.3**	3 57 2.12	—67.65	+20 7 43.9	....
40	Venus I, S	10	2 49.22	— 0.15	**—18.08**	346 58 8.05	42.679	— 12.7	**41.3**	7 2 30.99	+ 1.20	+25 56 20.4	....
41	α Canis Minoris ...	11	34 23.59	— 0.09	—18.06	326 30 7.68	45.029	— 36.4	41.8	7 34	.....	.. ..	....
	May 22, B.												
42	β Leonis	11	44 18.36	— 0.23	—17.92	336 8	......	....	....	11 44	.....	.. ..	....
43	β Virginis	11	45 49.95	— 0.20	—17.95	323 22	......	....	....	11 45	.....	.. ..	....
44	π Virginis	11	56 5.75	— 0.21	—17.92	328 12	. ....	....	....	11 55	.....	.. ..	....
45	ο Virginis	11	0 27.75	— 0.21	—17.89	330 18	......	....	....	12 0	.....	.. ..	....
46	2 Canum Venat. ...	11	11 28.02	— 0.29	—17.87	2 14	......	....	....	12 11	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
20 3 15	29.71	62.9	61.8
21 3 53	29.725	63.5	62.4
5 47	......	....	64.9
6 10	29.71	69.0	66.0
6 42	29.705	68.5	66.9
7 4	29.70	68.0	66.5
7 32	29.70	67.9	67.5
22 12	29.83	54.8	52.9
22 44	29.835	56.5	54.9
23 5	29.835	57.5	56.0
0 42	29.87	63.0	63.1
1 10	29.88	64.8	64.3
1 55	29.89	67.5	68.9
3 25	29.88	70.2	69.9
22 3 57	29.87	70.8	70.7
7 7	29.835	74.5	74.4
7 47	29.83	75.4	75.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 9, 38. Bisections at I, II.
3, 39. Bisections at VI, VII.
6, 32, 37. Bisections at II, VI, VII.
7. Bisections at I, VII.
8. Bisections at II, VI.
29. Bisections at II, III, IV, V, VI.
34. Bisections at c_1, c_2, c_3, c_4, c_5.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 2.6	....	— 0.1	+ 2.5
2	+ 2.8	+15 49.8	...	+15 52.6
3	+ 2.7	—15 49.8	...	—15 47.1
7	+ 3.6	— 16.0	...	— 12.4
8	+ 3.6	+ 16.0	0.0	+ 19.6
29	+39 54.0	—16 12.0	...	+23 42.0
37	+ 2.5	....	— 0.1	+ 2.4
38	+ 2.7	—15 48.2	...	—15 45.5
39	+ 2.8	+15 48.1	...	+15 50.9
40	+ 3.7	+ 16.2	0.0	+ 19.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Virginis	11	15 8.35	− 0.19	−17.95	320 54	......	....	....	12 14	.....	.. ..	....
2	τ Virginis	11	56 54.77	− 0.20	−17.99	323 4	......	....	....	13 56	.....	.. ..	....
3	d Bootis	11	6 11.75	− 0.25	−18.01	346 34	......	....	....	14 5	.....	.. ..	....
4	κ Virginis	11	7 55.21	− 0.17	−18.00	311 14	......	....	....	14 7	.....	.. ..	....
5	ι Virginis	11	11 7.80	− 0.18	−18.14	315 30	......	....	....	14 10	.....	.. ..	....
6	ρ Bootis	11	27 52.73	− 0.26	−18.13	351 50	......	....	....	14 27	.....	.. ..	....
7	μ Virginis	11	38 9.00	− 0.18	−18.06	315 48	......	....	....	14 37	.....	.. ..	....
	May 22, Hd.												
8	ζ Pegasi	11	36 48.83	− 0.02	−18.33	331 20 9.00	44.652	— 31.1	42.0	22 36	.....	.. ..	....
9	λ Pegasi	11	42 3.35	− 0.04	−18.56	344 4 8.92	43.052	— 16.2	41.7	22 41	....	.. ..	....
10	α Pegasi	11	0 7.06	− 0.02	−18.42	335 42 8.52	42.695	— 25.6	42.3	22 59	.....	.. ..	....
11	Moon II	9	31 47.87	0.00	**−18.49**	322 48	......	....	....	23 31 29.38	−67.58	.. ..	....
12	α Andromedæ	10	3 33.29	− 0.04	−18.64	349 34 8.72	42.516	— 10.3	41.6	0 3	.....	.. ..	....
	May 23, B.												
13	δ Virginis	7	50 55.28	− 0.19	−18.25	324 58	......	....	....	12 50	.....	.. ..	....
14	α Virginis	11	20 16.97	− 0.14	−18.17	310 24	......	....	....	13 19	.....	.. ..	....
15	ζ Virginis	11	29 57.42	0.18	−18.28	320 56	......	....	....	13 29	.....	.. ..	....
16	17 H. Canum Venat.	8	30 41.61	− 0.29	−18.48	358 42	......	....	....	13 30	.....	.. ..	....
17	25 Canum Venat.	11	33 22.73	− 0.29	−18.13	357 50	......	....	....	13 33	.....	.. ..	....
18	m Virginis	11	36 43.49	− 0.15	−18.33	312 50	......	....	....	13 36	.....	.. ..	....
19	ρ Bootis	11	27 52.99	− 0.27	−18.39	351 50	......	....	....	14 27	.....	.. ..	....
20	μ Virginis	11	38 9.27	− 0.16	−18.35	315 48	......	....	....	14 37	.....	.. ..	....
21	ε Bootis	11	40 58.85	− 0.26	−18.26	348 30	......	....	....	14 40	.....	.. ..	....
22	Piazzi XIV, 221	11	51 51.56	− 0.22	−18.08	335 52	......	....	....	14 51	.....	.. ..	....
23	β Bootis	11	58 32.62	− 0.31	−18.42	1 48	......	....	....	14 58	.....	.. ..	....
24	ψ Bootis	11	0 31.48	− 0.26	−18.46	348 22	......	....	....	15 0	.....	.. ..	....
	May 25, B.												
25	20 Comæ Berenices	11	25 3.75	− 0.21	−18.83	342 28	......	....	....	12 24	.....	.. ..	....
26	31 Comæ Berenices	11	47 11.71	− 0.23	−18.95	349 6	......	....	....	12 46	.....	.. ..	....
27	δ Virginis	11	50 55.88	− 0.17	−18.88	324 58	......	....	....	12 50	.....	.. ..	....
28	α Canum Venat.	8	51 43.06	− 0.26	−18.88	359 52	......	....	....	12 51	.....	.. ..	....
29	α Bootis	11	11 28.14	− 0.21	−18.84	340 44	......	....	....	14 11	.....	.. ..	....
	May 25, Hd.												
30	β Andromedæ	10	4 28.92	− 0.13	−19.48	356 6 7.38	45.619	— 3.8	39.6	1 4	.....	.. ..	....
31	α Ursæ Minoris	8	22 39.08	− 5.59	[−16.92]	49 46 10.10	44.794	+ 1 7.6	[40.3]	1 22	....	.. ..	....
32	β Arietis	11	49 27.58	− 0.08	−19.36	341 20 8.20	45.684	— 19.2	40.1	1 49	.....	.. ..	....
33	α Arietis	11	1 52.75	− 0.09	−19.31	344 0 8.38	46.165	— 16.3	39.6	2 1	.....	.. ..	....
34	Moon II	11	23 46.35	− 0.08	**−19.36**	337 48	......	....	....	2 23 26.91	−70.68	.. ..	....
35	α Ceti	11	57 23.42	− 0.05	−19.31	324 44 8.30	42.691	— 40.0	40.2	2 57	.....	.. ..	....
36	Mercury C, C	11	53 50.39	− 0.12	**−19.33**	341 16 8.15	44.021	— 19.1	**39.8**	3 53 30.94	0.00	+20 14 41.3	....
	May 26, Hd.												
37	Sun I, S.	10	11 13.38	− 0.14	**−19.32**	341 54 7.95	42.498	— 18.4	**39.8**	4 10 53.92	+68.06	+20 52 14.6	....
38	Sun II, N	11	13 29.49	− 0.14	**−19.32**	342 26 7.62	41.525	— 17.8	**39.8**	4 13 10.03	−68.05	+21 23 52.6	....
39	β Tauri	11	20 18.95	− 0.17	−19.37	349 32 7.45	45.710	— 10.3	39.4	5 19	.....	.. ..	....
40	α Orionis	11	50 5.80	− 0.11	−19.18	328 24 7.50	46.554	— 34.4	40.4	5 49	.....	.. ..	....
41	δ Ursæ Minoris S.P.	10	4 56.39	− 1.41	[−18.09]	54 22	......	....	....	18 4	.....	.. ..	....
42	μ Geminorum	11	17 15.38	− 0.16	−19.28	343 34 8.00	47.464	— 16.4	39.6	6 16	....	.. ..	....
43	γ Geminorum	11	32 16.74	− 0.14	−19.23	337 30 7.58	45.215	23.1	39.9	6 31	.....	.. ..	....
44	ε Geminorum	11	38 7.66	− 0.17	−19.34	346 14 8.45	47.012	— 13.6	39.3	6 37	.....	.. ..	....
45	Venus I, S.	11	14 20.97	− 0.17	**−19.26**	346 26 7.78	44.408	— 13.4	**39.8**	7 14 1.54	+ 1.26	+25 24 53.9	....
46	Venus N	..	.. ..	.....	.....	346 26 7.78	46.250	— 13.4	**39.8**	.. ..	.....	+25 25 29.4	....
	May 31, Ei.												
47	α Ursæ Minoris	8	22 50.08	− 7.27	[−20.74]	49 46 7.80	44.972	+ 1 5.7	[40.4]	1 22	.....	.. ..	....
48	β Arietis	11	49 29.60	− 0.18	−21.13	341 20 7.88	45.725	— 18.7	40.0	1 49	.....	.. ..	....
49	α Arietis	11	1 54.84	− 0.19	−21.15	344 0 6.82	46.236	— 15.8	39.6	2 1	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
22 22 45	29.85	58.6	57.9
23 22	29.86	61.0	61.1
0 8	29.87	63.5	64.4
25 0 55	29.98	61.5	58.6
1 55	29.97	62.2	60.7
2 49	29.965	64.2	62.5
3 59	29.965	66.5	65.5
26 4 13	29.955	67.0	66.1
5 23	29.94	68.4	67.4
6 44	29.92	70.5	69.1
7 21	29.92	69.6	68.7
31 1 11	29.92	71.6	72.5
2 6	29.93	75.0	74.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

31, 47. Bisections at c_1, c_2, c_3, c_4, c_5.
37. Bisections at I, II.
38. Bisections at VI, VII.
39, 48. Bisections at II, VI, VII.
45. Bisections at I, VII.
46. Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	″	′ ″	″	′ ″
36	+ 2.1	....	0.0	+ 2.1
37	+ 2.7	+15 48.9	...	+15 51.6
38	+ 2.6	−15 49.0	...	−15 46.4
45	+ 4.1	+ 17.8	— 0.1	+ 21.8
46	+ 4.1	— 17.8	...	— 13.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Ceti	8	57 25.40	— 0.12	—21. 11	324 44 6.72	42.800	— 38.9	39. 3	2 57	.....	.. ..	....
2	β Persei	11	2 2.52	— 0.27	—21. 30	1 36 6.90	41.584	+ 1.6	40. 1	3 1	.....	.. ..	....
	June 1, Ei.												
3	Sun I, S.	11	35 41.29	— 0.21	**—21.15**	342 48 7.85	47.838	— 16.9	**39.7**	4 35 19.93	+68.32	+21 47 58.5	....
4	Sun II, N.	11	37 57.93	— 0.21	**—21.15**	343 20 7.75	46.625	— 16.4	**39.7**	4 37 36.57	—68.32	+22 19 31.9	....
5	ε Orionis	11	31 30.54	— 0.13	—21. 18	319 46 6.58	43.282	— 46.1	39. 3	5 31	.....	.. ..	....
6	κ Orionis	11	43 22.84	— 0.09	—21. 19	311 20 6.08	42.911	—1 1.9	39. 3	5 43	.....	.. ..	....
7	α Orionis	11	50 7.74	— 0.16	—21. 05	328 24 5.28	46.615	— 33.5	39. 8	5 49	.....	.. ..	....
8	β Canis Minoris	11	22 6.20	— 0.18	—21. 03	329 30 5.80	46.750	— 31.9	40. 2	7 21	.....	.. ..	....
9	Venus I, S.	11	28 42.78	— 0.24	**—21.12**	345 30 6.08	46.450	— 14.0	**39.7**	7 28 21.42	+ 1.38	+24 29 30.9	....
10	Venus N.	..	.. ..	.....	.....	345 30 6.08	48.410	— 14.0	**39.7**	.. ..	.....	+24 30 8.9	....
11	β Geminorum	11	39 34.81	— 0.26	—21. 17	349 16 6.22	47.732	— 10.2	39. 9	7 39	.....	.. ..	....
12	Moon I.	11	14 53.51	— 0.21	**—21.12**	336 12	......	....	....	8 14 32.18	+65.21	.. ..	....
13	30 Monocerotis	11	21 2.54	— 0.14	—21. 16	317 25 54.40	47.225	— 49.7	39. 9	8 20	.....	.. ..	....
14	α Ursæ Minoris S. P.	8	22 38.80	+ 7.76	[—24. 08]	52 12 6.80	48.575	+1 11.3	[41. 4]	1 22	.....	.. ..	....
15	m Virginis	11	36 46.25	— 0.12	[—21. 15]	312 50 5.20	43.576	— 59.4	[40. 6]	13 36	.....	.. ..	....
	June 3, Hd.												
16	α Hydræ	11	23 3.54	0.00	-21. 46	312 48 5.98	44.702	— 59.4	40. 5	9 22	.....	.. ..	....
17	ο Leonis	11	36 12.10	— 0.06	—21. 31	331 22 7.25	44.484	— 30.0	40. 4	9 35	.....	.. ..	....
18	ε Leonis	11	40 34.09	— 0.11	—21. 45	345 14 7.08	47.851	— 14.5	41. 4	9 40	.....	.. ..	....
19	Moon I, N	11	52 12.82	— 0.05	**—21.39**	328 12 6.25	43.925	— 34.1	**40.7**	9 51 51.38	+62.03	+ 7 10 21.8	....
20	α Leonis	11	3 26.27	0.07	—21. 36	333 28 6.45	46.025	— 27.5	40. 4	10 3	.....	.. ..	....
	June 4, Ei.												
21	α Leonis	11	3 26.29	— 0.21	—21. 25	333 28 6.58	46.014	— 27.6	40. 2	10 3	.....	.. ..	....
22	γ¹ Leonis	11	14 51.30	— 0.23	—21. 37	341 22 6.72	44.080	— 18.7	40. 4	10 14	....	.. ..	....
23	Moon I, N	11	38 1.34	0.17	**—21.34**	323 36 6.38	47.507	— 41.0	**40.3**	10 37 39.83	+61.26	+ 2 35 24.3	....
24	46 Leonis Minoris	11	48 7.25	— 0.28	—21. 46	355 46 5.55	44.868	— 4.1	39. 7	10 47	.....	.. ..	....
25	δ Leonis	11	9 11.35	- 0.23	—21. 30	342 6 7.20	42.321	— 18.0	41. 0	11 8	.....	.. ..	....
	June 4, B.												
26	α Ceti	11	57 25.66	0.12	—21. 29	324 44 7.45	42.784	— 39.6	40. 0	2 57	.....	.. ..	....
27	α Tauri	11	30 33.47	— 0.16	—21. 24	337 20 6.70	43.670	— 23.2	39. 3	4 30	.....	.. ..	....
	June 5, B.												
28	Sun I, N.	11	52 6.53	0.19	**—21.29**	343 50 10.90	44.950	— 16.1	**39.4**	4 51 45.05	+68.62	+22 49 6.9	....
29	Sun II, S.	11	54 23.78	— 0.19	**—21.29**	343 18 9.55	46.232	— 16.6	**39.4**	4 54 2.30	—68.63	+22 17 26.2	....
30	Mercury C, C.	11	26 58.97	— 0.19	**—21.30**	345 46 7.82	43.068	— 14.1	**39.4**	5 26 37.48	+ 0.01	+24 44 28.1	....
31	β Canis Minoris	11	22 6.39	— 0.14	21. 28	329 30 5.85	46.870	— 32.5	40. 1	7 21	.....	.. ..	....
32	α² Geminorum	11	28 36.38	— 0.22	—21. 43	353 8 5.58	42.590	— 6.6	38. 7	7 28	.....	.. ..	....
33	α Canis Minoris	11	34 26.77	· 0.12	—21. 29	326 30 5.28	45.030	— 36.6	40. 3	7 34	.....	.. ..	....
34	Venus I, C.	11	35 58.54	— 0.19	**—21.34**	344 50 10.90	44.655	— 14.9	**39.4**	7 35 37.01	+ 1.46	+23 49 0.7	....
35	β Geminorum	11	39 34.93	— 0.21	—21. 36	349 16 6.82	47.678	— 10.4	38. 0	7 39	.....	.. ..	....
36	α Leonis	11	3 26.22	— 0.14	—21. 27	333 28 6.38	46.022	— 27.5	40. 2	10 3	.....	.. ..	....
37	γ¹ Leonis	11	14 51.25	— 0.16	—21. 40	341 22 6.50	44.065	— 18.5	40. 0	10 14	.....	.. ..	....
38	β Leonis Minoris	11	22 30.05	— 0.22	—21. 51	358 14 5.78	44.528	— 1.6	39. 4	10 22	.....	.. ..	....
39	δ Crateris	10	14 44.30	— 0.06	—21. 47	306 48 7.65	42.822	—1 13.6	40. 1	11 14	.....	.. ..	....
40	Moon I, N.	11	23 9.12	— 0.10	**—21.42**	318 58 13.42	41.670	— 48.1	**39.9**	11 22 47.60	+61.12	— 2 4 27.2	....
41	υ Leonis	11	32 13.63	— 0.10	—21. 36	320 44 13.48	47.351	— 45.1	39. 7	11 31	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
31 2 52	29.94	76.5	76.2
3 5	29.94	77.0	76.8
1 4 38	29.925	79.0	78.9
5 28	29.91	80.0	80.4
6 5	29.91	82.5	81.9
7 16	29.89	83.5	83.7
7 44	29.88	84.0	84.0
8 26	29.87	83.5	83.2
13 10	29.85	77.0	75.1
13 45	29.86	75.5	74.0
3 9 27	29.81	74.2	74.1
10 7	29.81	73.8	73.9
4 10 1	29.91	74.5	72.8
10 52	29.92	72.0	69.9
11 16	29.92	71.0	69.3
3 0	29.99	69.0	68.3
4 35	29.98	72.4	71.3
5 4 54	29.97	72.9	71.7
5 30	29.97	73.2	71.9
7 2	29.96	77.2	74.3
7 47	29.95	77.0	74.9
10 1	29.905	76.2	75.9
10 27	29.90	75.0	75.9
11 15	29.90	74.4	74.7
11 37	29.90	73.8	73.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 4, 13, 29, 31, 35.	Bisections at VI, VII.
3, 28, 33.	Bisections at I, II.
9.	Bisections at I, VII.
10.	Bisections at II, VI.
11.	Bisections at II, VII.
14.	Bisections at c_5, c_4, c_3, c_2, c_1.
19, 40.	Bisections at II, III, IV, V, VI.
23.	Bisections at III, IV, V.
24.	Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 2.5	+15 46.7	...	+15 49.2
4	+ 2.5	—15 46.7	...	—15 44.2
9	+ 4.8	+ 19.0	0.0	+ 23.8
10	+ 4.8	— 19.0	...	— 14.2
19	+28 30.9	—14 53.8	...	+13 37.1
23	+31 59.2	—14 49.8	...	+17 9.4
28	+ 2.4	—15 50.3	...	—15 47.9
29	+ 2.5	+15 50.3	...	+15 52.8
30	+ 1.7	....	0.0	+ 1.7
34	+ 5.3	....	0.0	+ 5.3
40	+35 23.6	—14 48.5	...	+20 35.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	June 5, Ei.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Ursæ Minoris....	8	22 52.80	− 4.59	[−22.08]	49 46 6.60	44.953	+1 6.0	[40.0]	1 22	.....	.. ..	....
2	β Arietis	11	49 30.14	− 0.18	−21.53	341 20 7.22	45.750	− 18.7	39.9	1 49	.....	.. ..	....
3	α Arietis	11	1 55.35	− 0.19	−21.53	344 0 7.42	46.194	− 15.9	39.0	2 1	.....	.. ..	....
4	α Ceti..............	11	57 25.95	− 0.15	−21.53	324 44 7.38	42.719	− 39.1	39.0	2 57	.....	.. ..	....
5	β Persei...........	11	2 3.00	− 0.26	−21.66	1 36 6.60	41.560	+ 1.6	39.6	3 1	.....	.. ..	....
	June 6, Ei.												
6	Sun I, N	11	56 13.88	− 0.23	**−21.53**	343 56 7.30	46.150	− 15.8	**39.2**	4 55 52.12	−68.63	+22 55 26.9	....
7	Sun II, S........	11	58 31.15	− 0.23	**−21.53**	343 23 58.72	48.122	− 16.3	**39.2**	4 58 9.39	−68.64	+22 23 52.3	....
8	ε Orionis..........	11	31 30.95	− 0.17	−21.52	319 46 6.50	43.305	− 46.5	38.6	5 31	.....	.. ..	....
9	Mercury I, C	11	36 17.30	− 0.25	**−21.52**	345 58 6.65	45.215	− 13.7	**39.2**	5 35 55.53	+ 0.19	+24 57 8.6	....
10	κ Orionis..........	11	43 23.30	− 0.14	−21.58	311 20 6.02	42.978	−1 2.3	39.2	5 43	.....	.. ..	....
11	α Orionis..........	11	50 8 21	− 0.20	−21.46	328 24 6.72	46.511	− 33.7	38.6	5 49	.....	.. ..	....
12	α² Geminorum	11	28 36.67	− 0.32	−21.62	353 8 5.70	42.705	− 6.6	39.4	7 28	.....	.. ..	....
13	Venus I, N	11	37 28.45	− 0.29	**−21.59**	344 40 6.15	44.252	− 15.0	**39.2**	7 37 6.57	+ 1.48	+23 38 48.3	....
14	Venus S..........	..	.. ..	.....	.....	344 40 6.15	42.092	− 15.0	**39.2**	.. ..	.....	+23 38 7.2	....
15	β Geminorum	11	39 35.22	− 0.30	−21.56	349 16 6.10	47.770	− 10.3	39.3	7 39	.....	.. ..	....
16	ο Virginis.........	11	0 31.23	− 0.18	−21.56	330 18 6.22	45.975	− 31.5	39.9	12 0	.....	.. ..	....
17	Moon I, N........	11	8 33.65	− 0.13	**−21.60**	314 22 9.48	42.374	− 56.5	**39.6**	12 8 11.92	+61.62	− 6 40 25.8	....
18	η Virginis	11	15 11.80	− 0.15	−21.57	320 54 5.62	46.639	− 44.9	39.8	12 14	.....	.. ..	....
19	δ² Corvi............	11	25 5.92	− 0.10	−21.61	305 4 5.78	45.449	−1 18.7	39.8	12 24	.....	.. ..	....
20	β Corvi.............	11	29 32.64	− 0.07	−21.67	298 12 4.98	43.150	−1 42.9	38.9	12 29	.....	.. ..	....
21	α Ursæ Minoris s. p.	8	22 43.59	+ 4.40	[−21.50]	52 12 6.78	48.530	+1 12.0	[40.2]	1 22	.....	.. ..	....
22	*m* Virginis.........	11	36 46.63	− 0.13	[−21.55]	312 50 5.80	43.544	−1 0.0	39.8	13 36	.....	.. ..	....
	June 6, Hd.												
23	α Arietis	11	1 55.65	− 0.15	−21.84	344 0 8.28	46.184	− 15.8	39.7	2 1	.....	.. ..	....
24	γ Ceti..............	11	38 30.21	− 0.09	−21.77	323 50 7.48	46.172	− 40.2	40.3	2 38	.....	.. ..	....
25	α Ceti..............	11	57 26.15	− 0.10	−21.76	324 44 7.20	42.842	− 38.9	39.7	2 57	.....	.. ..	....
26	η Tauri.............	11	41 55.69	− 0.18	−21.85	344 48 6.95	47.278	− 14.8	40.3	3 41	.....	.. ..	....
27	α Tauri.............	11	30 33.95	− 0.16	−21.69	337 20 6.82	43.669	− 22.8	39.7	4 30	.....	.. ..	....
	June 7, Hd.												
28	Sun I, S.........	11	0 21.52	− 0.20	**−21.78**	343 30 6.50	47.650	− 16.1	**39.7**	4 59 59.54	+68.65	+22 29 54.2	....
29	Sun II, N	11	2 38.82	− 0.20	**−21.78**	344 2 6.72	46.225	− 15.5	**39.7**	5 2 16.84	−68.65	+23 1 24.1	....
30	α Orionis..........	11	50 8.49	− 0.15	−21.78	328 24 6.15	46.640	− 33.3	40.3	5 49	.....	.. ..	....
31	γ Geminorum	11	32 19.30	− 0.20	−21.72	337 30 6.82	45.186	− 22.4	39.1	6 31	.....	.. ..	....
32	ε Geminorum	11	38 10.23	− 0.23	−21.84	346 14 6.90	47.018	− 13.2	38.5	6 37	.....	.. ..	....
33	α Canis Minoris....	11	34 27.26	− 0.17	−21.74	326 30 6.68	44.989	− 35.7	40.1	7 34	.....	.. ..	....
34	Venus I, N	10	38 49.97	− 0.24	**−21.78**	344 28 6.32	48.305	− 15.0	**39.7**	7 38 27.95	+ 1.50	+23 28 7.6	....
35	Venus S..........	..	.. ..	.....	.....	344 28 6.32	46.265	− 15.0	**39.7**	.. ..	.....	+23 27 27.9	....
36	η Virginis.........	11	15 11.92	− 0.08	−21.77	320 54 6.40	46.550	− 44.1	39.6	12 14	.....	.. ..	....
37	δ² Corvi............	11	25 6.07	− 0.01	−21.86	305 4 5.25	45.389	−1 17.3	39.6	12 24	.....	.. ..	....
38	γ Virginis (*mean*)..	11	37 0.17	− 0.08	[−21.68]	320 8 6.98	42.240	− 45.5	39.6	12 36	.....	.. ..	....
39	Moon I, N........	11	55 10.29	− 0.04	**−21.83**	309 58 15.70	45.055	−1 5.0	**39.9**	12 54 48.42	+62.70	−11 3 37.1	....
40	θ Virginis.........	11	5 11.19	− 0.06	−21.84	316 2 6.32	41.872	− 52.7	40.3	13 4	.....	.. ..	....
41	α Ursæ Minoris s. p.	11	22 39.45	+ 6.01	[−18.03]	52 12 8.00	48.533	+1 10.8	[40.3]	1 22	.....	.. ..	....
42	*m* Virginis.........	11	36 46.85	− 0.05	−21.86	312 50 6.42	43.490	− 59.0	40.3	13 36	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
5 1 17	29.94	69.0	70.9
2 7	29.94	72.2	72.7
2 55	29.94	75.0	74.0
3 7	29.94	75.2	74.7
6 4 59	29.92	76.5	76.9
5 29	29.91	77.0	76.8
5 54	29.90	77.5	77.4
7 31	29.87	78.5	78.2
7 42	29.87	78.5	78.4
11 58	29.84	75.0	73.2
12 38	29.83	72.5	70.9
13 26	29.84	71.0	68.9
13 43	29.84	70.5	68.3
2 6	29.79	72.0	72.3
2 42	29.79	73.8	73.9
3 50	29.79	76.8	76.9
4 37	29.78	78.5	78.9
7 5 3	29.76	79.8	80.1
5 57	29.74	81.0	81.0
6 45	29.73	82.5	81.9
7 45	29.715	83.0	82.6
12 19	29.67	79.0	77.9
13 16	29.68	76.5	75.2
13 42	29.69	76.0	74.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1.	Bisections at c_1, c_2, c_3, c_4, c_5.
6, 28.	Bisections at I, II.
7, 12, 15, 24, 25, 29.	Bisections at VI, VII.
13.	Bisections at I, VII.
14.	Bisections at II, VI.
17, 39.	Bisections at II, III, IV, V, VI.
21.	Bisections at c_4, c_3, c_2.
30.	Bisections at II, VI, VII.
34.	Bisection at I.
35.	Bisection at II.
41.	Bisections at c_5, c_4, c_3, c_2, c_1.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 2.4	−15 47.3	...	−15 44.9
7	+ 2.4	+15 47.3	...	+15 49.7
9	+ 1.7	....	0.0	+ 1.7
13	+ 5.5	− 20.6	...	− 15.1
14	+ 5.5	+ 20.6	− 0.1	+ 26.0
17	+38 38.8	−14 50.3	...	+23 48.5
28	+ 2.4	+15 44.9	...	+15 47.3
29	+ 2.4	−15 45.0	...	−15 42.6
34	+ 5.6	− 19.9	...	− 14.3
35	+ 5.6	+ 19.9	− 0.1	+ 25.4
39	+41 39.7	−14 54.9	...	+26 44.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	June 7, Ei.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Ursæ Minoris....	8	22 57.91	− 7.48	[−22.42]	49 46 6.40	44.977	+1 4.6	[39.1]	1 22	.....	.. ..	....
2	β Arietis	11	49 30.44	− 0.24	−21.72	341 20 7.08	45.678	− 18.3	38.6	1 49	.....	.. ..	....
3	α Arietis	11	1 55.67	− 0.25	−21.74	344 0 7.32	46.134	− 15.6	37.9	2 1	.....	.. ..	....
4	α Ceti.............	11	57 26.10	− 0.18	−21.61	324 44 6.85	42.661	− 38.3	38.0	2 57	.....	.. ..	....
5	β Persei	11	2 3.20	− 0.33	−21.74	1 36 6.25	41.511	+ 1.6	38.5	3 1	.....	.. ..	....
	June 8, Ei.												
6	Sun S	..	.. ..	....	.....	343 36 6.90	46.298	− 15.8	**38.3**	.. ..	.....	+22 35 30.2	....
7	Sun II, N........	9	6 46.61	− 0.25	**−21.64**	344 8 7.22	45.065	− 15.2	**38.3**	5 6 24.72	−68.71	+23 7 4.0	....
8	α Orionis..........	8	50 8.37	− 0.19	−21.62	328 24 6.72	46.471	− 32.9	38.5	5 49	.....	.. ..	....
9	δ Scorpii	11	54 51.00	− 0.11	−21.67	298 42 5.22	45.030	−1 40.3	39.6	15 54	.....	.. ..	....
10	β¹ Scorpii	11	0 3.03	− 0.12	−21.65	301 30 4.82	45.526	−1 29.7	39.1	15 59	.....	.. ..	....
11	Jupiter I, N......	6	10 55.83	− 0.11	**−21.59**	300 50 5.02	48.102	−1 32.0	**39.4**	16 10 34.13	+ 1.63	−20 11 15.4	....
12	Jupiter II, S	5	10 59.08	− 0.11	**−21.59**	300 50 5.02	45.792	−1 32.0	**39.4**	16 10 37.38	− 1.62	−20 12 0.0	....
13	α Scorpii	11	23 42.37	− 0.09	−21.51	294 50 4.80	44.925	−1 58.4	39.2	16 23	.....	.. ..	....
14	Uranus C, C	11	34 32.62	− 0.11	**−21.59**	299 6 5.42	44.334	−1 38.7	**39.4**	16 34 10.92	.....	−21 56 34.2	....
15	κ Ophiuchi........	11	53 21.31	− 0.21	−21.53	330 32 5.95	48.164	− 31.1	39.8	16 52	.....	.. ..	....
	June 8, B.												
16	β Persei	11	2 3.15	− 0.31	−21.68	1 36 6.08	41.616	+ 1.6	40.3	3 1	.....	.. ..	....
17	η Tauri	11	41 55.52	− 0.23	−21.59	344 48 5.72	47.259	− 14.8	38.6	3 41	.....	.. ..	....
18	ζ Persei	7	48 13.94	− 0.26	−21.59	352 36 6.28	45.030	− 7.1	38.2	3 47	.....	.. ..	....
19	α Tauri	11	30 33.79	− 0.19	−21.47	337 20 5.98	43.686	− 22.8	39.3	4 30	.....	.. ..	....
	June 9, B.												
20	Sun I, S.........	11	8 37.07	− 0.22	**−21.55**	343 42 6.68	43.835	− 15.9	**38.9**	5 8 15.30	+68.70	+22 40 42.1	....
21	Sun II, N.........	11	10 54.47	− 0.22	**−21.55**	344 14 6.25	42.520	− 15.4	**38.9**	5 10 32.70	−68.70	+23 12 13.6	....
22	Mercury I, C	11	3 33.47	− 0.23	**−21.53**	346 20 6.85	43.724	− 13.2	**38.9**	6 3 11.71	+ 0.20	+25 18 41.1	....
23	γ Geminorum	11	32 19.07	− 0.20	−21.48	337 30 6.52	45.204	− 22.5	39.1	6 31	.....	.. ..	....
24	ε Geminorum	11	38 9.99	− 0.23	−21.59	346 14 7.25	47.004	− 13.3	38.6	6 37	.....	.. ..	....
25	β Canis Minoris....	11	22 6.55	− 0.16	−21.42	329 30 6.75	46.649	− 32.0	38.7	7 21	.....	.. ..	....
26	α² Geminorum	8	28 36.53	− 0.27	−21.54	353 8 5.42	42.680	− 6.5	38.9	7 28	.....	.. ..	....
27	α Canis Minoris....	11	34 26.98	− 0.15	−21.48	326 30 5.35	44.986	− 36.0	38.3	7 34	.....	.. ..	....
28	Venus I, N	11	41 6.94	− 0.22	**−21.49**	344 8 7.08	43.594	− 15.4	**38.9**	7 40 45.23	+ 1.55	+23 6 36.6	....
29	λ Virginis	11	14 6.87	− 0.09	−21.48	308 8 6.62	41.796	−1 9.9	41.3	14 13	.....	.. ..	....
30	ρ Bootis....	11	27 56.05	− 0.29	−21.51	351 50 6.30	43.140	− 7.9	40.7	14 27	.....	.. ..	....
31	Moon I, N.......	11	35 14.05	− 0.06	**−21.50**	302 34 6.22	45.193	−1 26.0	**40.7**	14 34 52.49	+66.18	−18 28 5.7	....
32	ε Bootis...........	11	41 2.08	0.27	−21.54	348 30 6.68	46.730	− 11.2	39.7	14 40	.....	.. ..	....
33	α² Libræ...........	11	45 45.93	− 0.08	−21.49	305 24 5.62	45.686	−1 17.4	41.1	14 45	.....	.. ..	....
34	δ Scorpii	11	54 50.66	− 0.04	−21.39	298 42 6.30	45.096	−1 40.9	41.4	15 54	.....	.. ..	....
35	β¹ Scorpii	11	0 2.77	− 0.05	−21.45	301 30 6.05	45.606	−1 30.3	41.3	15 59	.....	.. ..	....
36	α Scorpii	11	23 42.12	− 0.02	−21.32	294 50 5.45	45.121	−1 59.5	42.5	16 23	.....	.. ..	....
37	β Herculis.... ...	11	26 20.18	− 0.24	−21.38	342 44 7.48	43.174	− 17.3	42.2	16 25	.....	.. ..	....
38	Uranus C, C	11	34 21.97	− 0.04	**−21.36**	299 6 5.10	45.536	−1 39.7	**42.1**	16 34 0.57	.....	−21 56 15.2	....
	June 10, Hd.												
39	α² Libræ...........	11	45 46.00	− 0.06	−21.58	305 24 5.28	45.719	−1 17.9	40.9	14 45	.....	.. ..	....
40	β Libræ...........	11	12 2.70	− 0.09	−21.49	312 0 6.58	47.252	−1 1.7	40.5	15 11	.....	.. ..	....
41	Moon I, N.......	11	29 44.31	− 0.04	**−21.49**	300 0 4.38	43.335	−1 36.1	**40.5**	15 29 22.78	+68.12	−21 2 53.0	....
42	α Serpentis........	11	39 45.54	− 0.15	−21.42	327 46 5.88	43.786	− 35.1	40.3	15 39	.....	.. ..	....
43	ε Serpentis........	11	46 14.95	− 0.14	−21.48	325 48 7.08	44.852	− 37.8	40.2	15 45	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
7 1 12	29.64	75.0	76.2
1 58	29.65	78.5	77.7
2 56	29.65	81.0	80.0
3 7	29.65	81.5	80.5
8 5 7	29.64	85.2	84.5
5 41	29.63	86.0	85.6
6 24	29.62	85.0	83.3
16 2	29.63	72.0	70.0
16 58	29.62	71.0	69.9
3 5	29.76	75.6	74.9
3 55	29.76	77.5	76.7
4 35	29.77	78.3	77.3
9 5 11	29.77	78.5	78.1
6 40	29.77	80.0	79.2
7 12	29.77	81.5	79.9
7 46	29.77	81.6	80.1
14 16	29.83	75.2	75.3
14 48	29.835	74.2	73.9
15 48	29.84	72.2	70.9
16 37	29.85	69.7	68.7
10 14 38	29.91	73.5	71.7
15 7	29.905	72.8	70.6
15 50	29.90	71.5	69.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1.	Bisections at c_1, c_2, c_3, c_4, c_5.
6, 20.	Bisections at I, II.
7, 21, 26.	Bisections at VI, VII.
11.	Bisections at I, VII.
12.	Bisections at II, VI.
31, 41.	Bisections at II, III, V, IV, VI.
1.	Microscopes read before and after bisections.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 2.4	+15 46.8	...	+15 49.2
7	+ 2.3	−15 46.9	...	−15 44.6
11	+ 1.7	− 22.3	...	− 20.6
12	+ 1.7	+ 22.3	...	+ 24.0
14	+ 0.4	....	...	+ 0.4
20	+ 2.4	+15 45.7	...	+15 48.1
21	+ 2.3	−15 45.7	...	−15 43.4
22	+ 1.6	....	+ 0.1	+ 1.7
28	+ 6.0	− 21.5	...	− 15.5
31	+46 40.8	−15 11.0	...	+31 29.8
38	+ 0.4	....	...	+ 0.4
41	+48 31.6	−15 21.2	...	+33 10.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	June 10, Ei.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Ursæ Minoris....	9	22 58.22	— 5.83	[—21. 31]	49 46 7.71	44.885	+1 5.3	[39. 8]	1 22	.....	.. ..	....
2	β Arietis	11	49 30.15	— 0.24	—21. 34	341 20 6.75	45.850	— 18.5	39. 5	1 49	.....	.. ..	....
3	α Arietis	11	1 55.41	— 0.25	—21. 39	344 0 7.15	46.215	— 15.7	38. 9	2 1	.....	.. ..	....
4	α Ceti.............	11	57 25.80	— 0.19	—21. 24	324 44 6.05	42.820	— 38.7	39. 3	2 57	.....	.. ..	....
5	β Persei...........	11	2 2.85	— 0.31	—21. 32	1 36 5.75	41.559	+ 1.6	39. 0	3 1	.....	.. ..	....
	June 11, Ei.												
6	Sun I, N	11	16 53.47	— 0.25	**—21.32**	344 22 7.50	46.028	— 15.1	**38.7**	5 16 31.90	+68.77	+23 21 25.9	....
7	Sun II, S........	11	19 11.01	— 0.25	**—21.32**	343 50 7.38	47.622	— 15.7	**38.7**	5 18 49.44	—68.77	+22 49 52.5	....
8	Mercury I, C	11	21 1.62	— 0.26	**—21.32**	346 20 7.28	47.510	— 13.1	**38.6**	6 20 40.04	+ 0.20	+25 19 54.6	....
9	γ Geminorum	11	32 18.89	— 0.23	—21. 26	337 30 5.78	45.190	— 22.3	38. 3	6 31	.....	.. ..	....
10	ε Geminorum	11	38 9.77	— 0.26	—21. 33	346 14 6.78	46.996	— 13.2	38. 2	6 37	.....	.. ..	....
11	α^2 Geminorum	11	28 36.42	— 0.28	—21. 42	353 8 5.42	42.542	— 6.4	38. 1	7 28	.....	.. ..	....
12	α Canis Minoris....	11	34 26.84	— 0.20	—21. 29	326 30 5.65	45.001	— 35.6	39. 2	7 34	.....	.. ..	....
13	Venus I, S.......	11	42 48.42	— 0.25	**—21.32**	343 46 5.30	42.198	— 15.6	**38.3**	7 42 26.85	+ 1.60	+22 44 8.5	....
14	Venus N.........	..	.. ..	....	.....	343 46 5.30	44.495	— 15.6	**38.3**	.. ..	.....	+22 44 52.6	....
15	15 Argus	11	3 39.39	— 0.09	—21. 33	297 2 5.05	42.508	—1 44.7	38. 3	8 3	.....	.. ..	....
16	δ Scorpii	11	54 50.55	— 0.07	—21. 24	298 42 4.30	45.020	—1 39.6	39. 2	15 54	.....	.. ..	....
17	β^1 Scorpii	11	0 2.65	— 0.08	—21. 29	301 30 3.85	45.531	—1 29.1	38. 8	15 59	.....	.. ..	....
18	Jupiter I, S......	5	9 25.36	— 0.08	**—21.25**	300 54 4.18	44.150	—1 31.3	**39.4**	16 9 4.03	+ 1.64	—20 8 31.5	....
19	Jupiter II, N.....	6	9 28.65	— 0.08	**—21.25**	300 54 4.18	46.378	—1 31.3	**39.4**	16 9 7.32	— 1.65	—20 7 48.9	....
20	α Scorpii	11	23 42.06	— 0.05	—21. 21	294 50 4.28	44.886	—1 57.8	38. 7	16 23	.....	.. ..	....
21	Moon I, N.......	11	27 11.50	— 0.07	**—21.25**	298 30 4.35	43.120	—1 40.6	**39.4**	16 26 50.18	+69.73	—22 33 0.6	....
22	η Ophiuchi	..	.. ..	....	.....	305 26 5.50	44.687	—1 17.1	40. 2	17 4	.....	.. ..	....
23	γ^2 Sagittarii	11	59 48.84	— 0.02	—21. 31	290 38 4.20	43.984	—2 24.9	40. 0	17 59	.....	.. ..	....
24	μ Sagittarii	11	8 12.49	— 0.08	—21. 28	299 58 4.55	42.756	—1 35.2	39. 6.	18 7	.....	.. ..	....
25	Saturn I, N......	6	11 31.03	— 0.07	**—21.26**	298 38 4.60	43.645	—1 40.5	**39.4**	18 11 9.70	+ 0.72	—22 24 49.9	....
26	Saturn II, S	5	11 32.48	— 0.07	**—21.26**	298 38 4.60	42.625	—1 40.5	**39.4**	18 11 11.15	— 0.73	—22 25 9.6	....
27	η Serpentis	11	16 33.24	— 0.16	—21. 27	318 6 5.75	45.306	— 49.4	38. 7	18 16	.....	.. ..	....
28	λ Sagittarii	11	22 13.47	— 0.05	—21. 18	295 34 4.78	45.372	—1 54.5	40. 3	18 21	.....	.. ..	...
	June 14, Hd.												
29	Moon II.........	11	29 51.72	+ 0.01	**—20.91**	301 44	......	....	....	19 29 30.82	—70.25	.. ..	....
30	β Sagittæ	11	36 57.89	— 0.11	—20. 97	338 16	......	....	....	19 36	.....	.. ..	....
31	γ Aquilæ..........	11	41 54.73	— 0.09	—20. 90	331 24 6.98	43.480	— 30.4	[41. 4]	19 41	.....	.. ..	....
32	β Aquilæ..........	11	50 48.46	— 0.08	—20. 87	327 12	......	....	....	19 50	.....	.. ..	....
	June 19, B.												
33	α Pegasi	11	0 11 25	— 0.11	—21. 64	335 42 7.28	42.914	— 25.9	39. 5	22 59	.....	.. ..	....
34	φ Aquarii	11	9 33.15	— 0.06	—21. 76	314 26 5.45	47.236	— 58.5	40. 1	23 9	.....	.. ..	....
35	τ Pegasi...........	11	16 5.79	— 0.13	—21. 78	344 12 7.10	47.131	— 16.2	40. 0	23 15	.....	.. ..	....
36	Moon II, N......	11	9 58.65	— 0.09	**—21.73**	326 56 7.58	45.281	— 37.2	**39.8**	0 9 36.83	—67.57	+ 5 54 47.0	....
37	β Ceti..............	11	38 58.10	— 0.03	—21. 81	302 30 6.10	46.329	—1 29.2	39. 8	0 38	.....	.. ..	....
38	δ Piscium	11	43 53.62	— 0.10	—21. 71	328 4 6.52	44.848	— 35.5	39. 6	0 43	.....	.. ..	....
39	ε Piscium	11	58 9.05	— 0.10	—21. 68	328 22 6.45	46.856	— 35.0	39. 9	0 57	.....	.. ..	....
40	α Ursæ Minoris....	8	23 5.25	— 2.79	[—22. 84]	49 46 9.25	44.761	+1 7.2	[41. 3]	1 22 . ..	.....	.. ..	....
	June 19, Ei.												
41	α Ceti..............	11	57 26.45	— 0.18	—21. 68	324 44 7.00	42.874	— 39.7	38. 8	2 57	.....	.. ..	....
42	β Persei...........	11	2 3.63	— 0.27	—21. 87	1 36 6.30	41.541	+ 1.6	39. 3	3 1	.....	.. ..	....
43	α Persei...........	11	17 34.87	— 0.30	[—21. 81]	10 32 6.12	41.265	+ 10.5	[38. 8]	3 17	.....	.. ..	....
44	ζ Persei...........	11	48 14.41	— 0.24	—21. 82	352 36 6.95	45.012	— 7.2	38. 5	3 47	.....	.. ..	....
45	ε Persei...........	11	51 32.35	— 0.27	—21. 82	0 44 6.52	44.780	+ 0.8	37. 2	3 51	.....	.. ..	....
46	β Tauri	9	20 21.69	— 0.24	—21. 76	349 32 6.30	45.648	— 10.2	38. 6	5 19	.....	.. ..	....
47	δ Orionis..........	11	27 16.89	— 0.17	—21. 80	320 40 5.75	41.900	— 45.4	37. 9	5 26	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
10 1 15	29. 89	73. 0	74. 9
2 9	29. 88	76. 0	76. 7
3 5	29. 87	79. 0	78. 9
11 5 19	29. 85	82. 9	83. 1
6 24	29. 84	85. 0	85. 6
6 43	29. 84	86. 0	85. 9
7 21	29. 83	86. 5	87. 0
8 7	29. 83	89. 0	87. 6
15 46	29. 82	78. 5	76. 9
16 35	29. 82	77. 0	75. 8
17 10	29. 82	76. 5	75. 0
17 54	29. 82	75. 5	74. 3
18 28	29. 81	75. 0	73. 4
14 19 18	29. 855	69. 2	67. 9
20 20	29. 85	69. 2	67. 9
19 23 3	29. 945	57. 3	54. 9
23 22	29. 945	57. 8	56. 0
0 3	29. 955	59. 8	58. 1
0 34	29. 965	60. 7	58. 9
1 29	29. 975	63. 3	62. 4
3 5	29. 98	69. 9	67. 9
3 57	29. 98	71. 5	70. 4
5 15	29. 97	74. 0	73. 2
5 33	29. 96	74. 2	73. 9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 40.	Bisections at c_1, c_2, c_3, c_4, c_5.
2, 7.	Bisections at VI, VII.
6.	Bisections at I, II.
13, 18, 25.	Bisections at I, VII.
14, 19, 26.	Bisections at II, VI.
21, 36.	Bisections at II, III, IV, V, VI.
22.	Bisections at I, II, VI.
45.	Bisections at II, VI, VII.
47.	Bisection at II.
1.	Microscopes read before and after bisections.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 2.3	—15 46.7	...	—15 44.4
7	+ 2.4	+15 46.6	...	+15 49.0
8	+ 1.7	....	0.0	+ 1.7
13	+ 6.3	+ 22.2	0.3	+ 28.2
14	+ 6.3	— 22.2	...	— 15.9
18	+ 1.7	+ 21.3	...	+ 23.0
19	+ 1.7	— 21.3	...	— 19.6
21	+49 49.7	—15 32.0	...	+34 17.7
25	+ 0.9	— 9.9	...	— 9.0
26	+ 0.9	+ 9.8	...	+ 10.7
36	+32 4.4	—16 10.6	...	+15 53.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	June 20, Ei.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, S.........	11.	54 16.64	− 0.22	**−21.83**	344 12 6.08	44.780	− 15.6	**38.8**	5 53 54.59	+68.93	+23 10 59.8	....
2	Sun II, N	11	56 34.51	− 0.22	**−21.83**	344 44 6.98	43.430	− 15.1	**38.8**	5 56 12.46	−68.94	+23 42 32.2	....
3	δ Canis Majoris....	11	4 42.03	− 0.10	−21.93	294 48 5.98	46.340	−1 58.4	39.2	7 4	.....	.. ..	....
4	α Hydræ..........	11	23 3.90	− 0.15	−21.82	312 48 6.60	44.652	− 59.1	38.9	9 22	.....	.. ..	....
5	α Leonis	11	3 26.60	− 0.10	−21.83	333 28 6.35	46.041	− 27.3	40.1	10 3	.....	.. ..	....
6	α Andromedæ	11	3 37.82	− 0.16	−22.07	349 34 6.72	42.725	− 10.3	39.6	0 3	.....	.. ..	....
7	γ Pegasi..........	11	8 29.68	− 0.14	−21.95	335 38 6.85	48.002	− 25.5	40.0	0 8	.....	.. ..	....
8	α Cassiopeiæ	5	35 14.68	− 0.24	[−22.03]	17 0 7.55	44.062	+ 17.3	[39.6]	0 34	.....	.. ..	....
9	β Ceti............	11	38 58.41	− 0.06	−22.06	302 30 6.42	46.236	−1 27.8	39.5	0 38	.....	.. ..	....
10	γ Cassiopeiæ	5	51 5.18	− 0.26	[−22.13]	21 12 8.62	41.172	+ 21.8	[38.2]	0 50	.....	.. ..	....
11	Moon II, N......	11	5 30.93	− 0.13	**−22.02**	332 8 7.58	44.367	− 29.5	**39.6**	1 5 8.78	−68.38	+11 6 37.3	....
12	α Ursæ Minoris....	8	23 7.00	− 3.12	[−23.24]	49 46 8.15	44.767	+1 6.1	[39.4]	1 22	.....	.. ..	....
13	β Arietis..........	11	49 30.99	− 0.15	−21.97	341 20 8.02	45.754	− 18.7	39.1	1 49	.....	.. ..	....
	June 20, Hd.												
14	α Ceti.............	11	57 26.81	− 0.03	−22.17	324 44 7.45	42.808	− 39.0	38.6	2 57	.....	.. ..	....
15	η Tauri...........	11	41 56.35	− 0.09	−22.28	344 48 7.18	47.292	− 14.9	39.6	3 41	.....	.. ..	....
16	α Tauri...........	11	30 34.66	− 0.20	−22.12	337 20 7.22	43.602	− 22.8	38.0	4 30	.....	.. ..	....
17	β Orionis.........	11	10 7.00	− 0.04	−22.12	312 42 7.20	47.080	− 59.0	40.1	5 9	.....	.. ..	....
18	β Tauri...........	11	20 22.09	− 0.16	−22.23	349 32 6.78	45.605	− 10.0	38.6	5 19	.....	.. ..	....
	June 21, Hd.												
19	Sun I, S.........	11	58 26.71	− 0.17	**−22.18**	344 12 6.82	45.692	− 15.4	**39.0**	5 58 4.36	+68.83	+23 11 18.1	....
20	Sun II, N........	11	0 44.37	− 0.17	**−22.18**	344 44 6.68	44.255	− 14.8	**39.0**	6 0 22.02	−68.83	+23 42 47.7	....
21	α Canis Minoris....	11	34 27.69	− 0.15	−22.19	326 30 6.40	44.996	− 35.8	39.1	7 34	.....	.. ..	....
22	β Andromedæ	11	4 32.82	− 0.13	−22.47	356 6 6.70	45.742	− 3.7	39.3	1 4	.....	.. ..	....
23	η Piscium	11	26 32.32	− 0.08	−22.28	335 52 6.32	42.177	− 24.8	39.7	1 26	.....	.. ..	....
24	β Arietis	11	49 31.34	− 0.09	−22.35	341 20 7.45	45.855	− 18.6	40.6	1 49	.....	.. ..	....
25	Moon II	11	2 38.89	− 0.08	**−22.37**	336 22	......	....	....	2 2 16.44	−69.45	.. ..	....
	June 22, Ei.												
26	α Canum Venat....	11	51 46.10	− 0.30	−22.31	359 52 6.38	45.529	− 0.1	[38.8]	12 51	.....	.. ..	....
27	ε Virginis	11	57 36.95	− 0.22	−22.11	332 30 6.52	47.481	− 28.5	[39.3]	12 57	.....	.. ..	....
28	α Ursæ Minoris S. P.	8	22 58.94	+ 5.50	[−22.16]	52 12 6.98	48.641	+1 11.1	[40.4]	1 22	.....	.. ..	....
	June 23, Ei.												
29	α Canum Venat....	11	51 46.14	− 0.29	[−22.38]	359 52 6.22	45.563	− 0.1	[38.7]	12 51	.....	.. ..	....
30	ε Virginis	11	57 37.04	− 0.18	[−22.25]	332 30 6.65	47.475	− 28.5	[39.3]	12 57	.....	.. ..	....
31	α Ursæ Minoris S. P.	8	23 0.46	+ 6.90	[−23.94]	52 12 7.04	48.639	+1 11.0	[40.3]	1 22	.....	.. ..	....
32	η Ursæ Majoris	9	44 1.30	− 0.36	[−22.34]	10 48 6.85	49.004	+ 10.6	[39.2]	13 43	.....	.. ..	....
	June 25, B.												
33	η Tauri............	11	41 56.36	− 0.29	−21.96	344 48 6.92	47.272	− 14.7	39.5	3 41	.....	.. ..	....
34	α Tauri............	8	30 34.56	− 0.25	−21.87	337 20 6.52	43.710	− 22.5	39.3	4 30	.....	.. ..	....
35	ι Aurigæ..........	11	50 52.90	− 0.33	−22.06	354 2 6.08	42.610	− 5.6	39.3	4 50	.....	.. ..	....
36	β Orionis..........	11	10 6.93	− 0.14	−21.88	312 42 6.10	47.160	− 58.1	39.0	5 9	.....	.. ..	....
37	β Tauri............	11	20 22.13	− 0.31	−22.03	349 32 6.25	45.622	− 9.9	38.5	5 19	.....	.. ..	....
	June 26, B.												
38	Sun I, N	11	19 14.18	− 0.28	**−21.98**	344 40 6.98	41.645	− 14.6	**39.0**	6 18 51.92	+68.87	+23 38 1.7	....
39	Sun II, S	11	21 31.93	− 0.28	**−21.98**	344 8 7.48	43.242	− 15.2	**39.0**	6 21 9.67	−68.88	+23 6 28.8	....
40	α^2 Geminorum	11	28 37.15	− 0.32	−22.07	353 8 5.90	42.509	− 6.4	39.0	7 28	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
20	5	57	29.955	74.8	74.7
	6	54	29.94	76.5	76.1
	8	0	29.92	77.5	77.0
	9	18	29.91	78.5	77.7
	10	8	29.91	79.5	80.0
	0	0	29.83	63.0	62.9
	1	0	29.84	66.0	66.5
	1	53	29.85	69.0	70.7
	3	2	29.835	73.2	74.1
	3	51	29.83	76.2	75.9
	4	34	29.83	78.3	77.7
	5	24	29.82	80.0	79.8
21	6	1	29.81	80.4	80.4
	7	10	29.78	81.8	81.5
	0	58	29.68	68.0	67.7
	1	45	29.69	70.5	70.9
22	12	47	29.66	76.0	73.6
	13	33	29.66	73.5	71.8
23	12	56	29.78	78.0	76.1
	13	48	29.78	76.0	74.9
25	3	44	29.77	82.8	82.0
	4	31	29.77	85.0	84.5
	5	23	29.77	86.8	86.9
26	6	22	29.76	88.2	88.6
	7	11	29.755	89.8	90.7

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 19, 38.	Bisections at I, II.
2, 20, 36, 39.	Bisections at VI, VII.
3.	Bisections at I, II, VII.
8, 10.	Bisections at I, II, III, V.
11.	Bisections at II, III, IV, V, VI.
12.	Bisections at c_1, c_2, c_3, c_4, c_5.
15, 23, 29.	Bisections at II, VI, VII.
24.	Bisections at II, VI.
28, 31.	Bisections at c_5, c_4, c_3, c_2, c_1.
12, 28, 31.	Microscopes read before and after bisections.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 2.3	+15 46.1	...	+15 48.4
2	+ 2.2	−15 46.2	...	−15 44.0
11	+27 21.6	−16 8.0	...	+11 13.6
19	+ 2.3	+15 44.7	...	+15 47.0
20	+ 2.2	−15 44.8	...	−15 42.6
38	+ 2.3	−15 46.4	...	−15 44.1
39	+ 2.3	+15 46.5	...	+15 48.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Venus I, N	11	34 44.57	− 0.26	**−22.00**	341 6 6.38	43.390	− 18.2	**39.0**	7 34 22.31	+ 1.95	+20 4 29.2	....
2	β Geminorum	11	39 35.66	− 0.30	−21.99	349 16 6.15	47.574	− 10.0	38.3	7 39	.....	.. ..	....
3	Mercury I, C	11	6 55.94	− 0.26	**−22.00**	342 32 6.75	42.959	− 16.7	**39.0**	8 6 33.68	+ 0.24	+21 30 22.8	....
4	α Lyncis	7	15 21.96	− 0.44	−21.95	355 50 5.15	43.910	− 3.8	39.5	9 14	.....	.. ..	....
5	ε Piscium	11	58 9.37	− 0.11	−21.77	328 22 6.50	46.860	− 33.6	[40.1]	0 57	.....	.. ..	....
6	β Andromedæ	11	4 32.57	− 0.23	−21.94	356 6 7.10	45.788	− 3.7	[39.9]	1 4	.....	.. ..	....
7	α Ursæ Minoris....	8	23 19.00	− 6.67	[−24.97]	49 46 9.70	44.876	+1 4.7	[41.8]	1 22	.....	.. ..	....
	June 26, Br.												
8	α Tauri	11	30 34.57	− 0.18	−21.93	337 20 5.42	43.750	− 22.4	38.9	4 30	.....	.. ..	....
9	β Tauri	7	20 22.07	− 0.25	−22.01	349 32 6.68	45.600	− 9.8	40.3	5 19	.....	.. ..	....
10	δ Orionis..........	11	27 16.99	− 0.13	−21.84	320 40 5.15	42.081	− 43.9	40.0	5 26	.....	.. ..	....
	June 27. Br.												
11	Sun I, N	11	23 23.31	− 0.25	**−21.92**	344 38 5.75	41.032	− 14.7	**39.4**	6 23 1.14	+68.85	+23 35 48.3	....
12	Sun II, S........	11	25 41.00	− 0.25	**−21.92**	344 6 5.78	42.850	− 15.2	**39.4**	6 25 18.83	−68.84	+23 4 19.3	....
13	α² Geminorum	6	28 37.02	− 0.32	−21.93	353 8 5.78	42.622	− 6.4	39.5	7 28	.....	.. ..	....
14	Venus I, N	11	32 54.63	− 0.26	**−21.91**	340 56 6.78	43.260	− 18.4	**39.0**	7 32 32.46	+ 1.97	+19 54 26.9	....
15	β Geminorum	11	39 35.56	− 0.31	−21.88	349 16 4.12	47.708	− 10.1	38.8	7 39	.....	.. ..	....
16	Mercury I, C	11	12 16.05	− 0.28	**−21.90**	342 8 7.15	41.156	− 17.2	**38.8**	8 11 53.87	+ 0.25	+21 5 48.6	....
17	α Lyncis	11	15 21.93	− 0.38	−21.98	355 50 6.42	43.701	− 3.8	38.4	9 14	.....	.. ..	....
18	α Hydræ..........	11	23 3.85	− 0.14	−21.82	312 48 6.72	44.566	− 57.3	38.4	9 22	.....	.. ..	....
	June 28, Br.												
19	α Tauri	11	30 33.97	− 0.20	−21.26	337 20 5.50	43.754	− 22.4	39.0	4 30	.....	.. ..	....
20	ι Aurigæ..........	11	50 52.32	− 0.27	−21.47	354 2 5.78	42.611	− 5.6	39.2	4 50	.....	.. ..	....
21	β Orionis..........	11	10 6.40	− 0.12	−21.32	312 42 7.22	47.085	− 58.0	39.8	5 9	.....	.. ..	....
22	β Tauri	11	20 21.56	− 0.26	−21.45	349 32 5.98	45.655	− 9.9	39.0	5 19	.....	.. ..	....
23	α Orionis.........	11	50 8.22	− 0.19	−21.24	328 24 5.98	46.666	− 32.9	39.7	5 49	.....	.. ..	....
	June 29, Br.												
24	Sun I, S.........	11	31 40.54	− 0.27	**−21.29**	344 0 6.20	43.775	− 15.3	**39.3**	6 31 18.98	+68.81	+22 58 40.4	....
25	Sun II, N	11	33 58.15	− 0.27	**−21.29**	344 32 6.32	42.465	− 14.8	**39.3**	6 33 36.59	−68.80	+23 30 13.0	....
26	Venus I, N	11	28 49.86	− 0.27	**−21.25**	340 36 6.55	44.166	− 18.8	**39.3**	7 28 28.34	+ 2.01	+19 34 43.3	....
27	α Canis Minoris ...	11	34 26.79	− 0.21	−21.19	326 30 5.72	45.089	− 35.3	40.1	7 34	.....	.. ..	....
28	β Geminorum	11	39 34.96	− 0.31	−21.27	349 16 6.05	47.643	− 10.1	39.0	7 39	.....	.. ..	....
29	Moon I..........	11	43 53.70	− 0.27	**−21.20**	334 4	......	....	....	8 43 32.23	+64.24	.. ..	....
30	α Lyncis	11	15 21.19	− 0.37	−21.26	355 50 5.88	43.759	− 3.8	39.1	9 14	.....	.. ..	....
31	α Hydræ..........	11	23 3.19	− 0.17	−21.14	312 48 5.65	44.640	− 57.3	38.5	9 22	.....	.. ..	....
	June 29, B.												
32	θ Virginis.........	11	5 10.28	− 0.20	[−21.00]	316 2 6.00	41.880	− 51.4	[40.1]	13 4	.....	.. ..	....
33	α Ursæ Minoris S. P.	8	23 3.85	+ 8.97	[−22.99]	52 12 6.55	48.794	+1 9.1	[40.9]	1 22	.....	.. ..	....
34	ζ Virginis.........	11	29 59.84	− 0.22	[−20.92]	320 56 5.02	45.479	− 43.4	[39.2]	13 29	.....	.. ..	....
35	η Ursæ Majoris....	11	43 59.89	− 0.48	[−20.95]	10 48 5.25	49.268	+ 10.3	[40.0]	13 43	.....	.. ..	....
	June 30, B.												
36	δ Geminorum	11	14 31.40	− 0.10	−20.70	343 12 7.80	41.460	− 16.7	39.2	7 14	.....	.. ..	....
37	Venus I, N	11	26 36.01	− 0.10	**−20.76**	340 26 7.35	45.270	− 19.6	**39.1**	7 26 15.15	+ 2.03	+19 25 4.6	....
38	α² Geminorum	11	28 35.69	− 0.12	−20.78	353 8 7.18	42.538	− 6.6	39.4	7 28	.....	.. ..	..
39	α Canis Minoris ...	11	34 26.20	− 0.07	−20.73	326 30 6.32	45.102	− 36.5	39.6	7 34	.....	.. ..	....
40	β Geminorum	11	39 34.33	− 0.11	−20.83	349 18 6.65	41.270	− 10.4	38.0	7 39	.....	.. ..	....
41	Mercury I, C	11	26 54.37	− 0.10	**−20.76**	340 50 7.08	46.299	− 19.1	**38.5**	8 26 33.51	+ 0.26	+19 49 25.2	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
26 7 43	29.75	90.0	90.9
8 16	29.74	90.5	90.7
9 8	29.725	89.8	89.9
9 29	29.72	89.7	90.4
0 50	29.71	78.8	77.2
1 35	29.72	78.0	77.1
4 24	29.74	85.8	86.0
5 34	29.74	86.9	87.5
27 6 26	29.72	86.8	87.2
7 46	29.69	88.9	87.6
8 22	29.68	90.5	89.4
9 27	29.645	90.0	89.8
28 4 24	29.67	85.0	83.9
4 55	29.675	85.9	84.9
5 24	29.68	86.8	85.7
5 54	29.68	86.9	86.2
29 6 34	29.67	87.2	87.1
7 43	29.67	88.6	87.9
9 26	29.66	91.9	90.2
13 2	29.60	87.5	87.2
13 49	20.595	84.3	83.9
30 7 17	29.795	75.0	72.2
7 43	29.80	76.0	73.0
8 31	29.80	78.8	75.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 12, 13, 25, 35, 36, 38.	Bisections at VI, VII.
7.	Bisections at c_1, c_2, c_3, c_4, c_5.
9, 11, 24.	Bisections at I, II.
28.	Bisections at II, VI, VII.
33.	Bisections at c_5, c_4, c_3, c_2.

No.	Parallax.	Semidiam.	Cor. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 9.1	− 27.4	...	− 18.3
3	+ 2.7	....	− 0.2	+ 2.5
11	+ 2.3	−15 44.5	...	−15 42.2
12	+ 2.3	+15 44.5	...	+15 46.8
14	+ 9.2	− 27.7	...	− 18.5
16	+ 2.8	....	− 0.2	+ 2.6
24	+ 2.3	+15 46.3	...	+15 48.6
25	+ 2.3	−15 46.3	...	−15 44.0
26	+ 9.6	− 28.3	...	− 18.7
37	+ 9.7	− 28.5	...	− 18.8
41	+ 3.2	....	− 0.3	+ 2.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Lyncis	11	15 20.45	− 0.12	−20.77	355 50 6.38	43.655	− 4.0	37.5	9 14	.....	.. ..	....
2	α Hydræ	11	23 2.52	− 0.04	−20.60	312 48 7.00	44.659	− 59.1	38.3	9 22	.....	.. ..	....
3	Moon I, N.......	11	32 40.47	− 0.08	**−20.75**	330 6 6.75	46.402	− 31.5	**38.0**	9 32 19.64	+62.67	+ 9 5 15.2	....
4	ε Leonis	11	40 33.17	− 0.10	−20.76	345 14 7.48	47.664	− 14.4	38.4	9 40	.....	.. ..	....
5	μ Leonis	11	47 27.36	− 0.11	−20.87	347 30 6.78	43.185	− 12.1	37.7	9 47	.....	.. ..	....
	June 30, Ei.												
6	α Ursæ Minoris S. P.	8	23 7.98	+ 2.76	[−19.98]	52 12 6.85	48.593	+1 11.3	[39.7]	1 22	.....	.. ..	....
7	η Ursæ Majoris....	11	43 59.48	− 0.26	[−20.78]	10 48 6.45	49.061	+ 10.7	[39.1]	13 43	.....	.. ..	....
8	η Bootis...........	11	50 19.03	− 0.17	[−20.68]	339 54 7.18	47.690	− 20.2	[39.2]	13 49	.....	.. ..	....
	July 1, B.												
9	α Leonis	11	3 25.05	− 0.12	−20.34	333 28 7.70	45.905	− 27.4	38.3	10 3	.....	.. ..	....
10	γ^1 Leonis	11	14 49.99	− 0.14	−20.39	341 22 7.82	43.916	− 18.5	37.9	10 14	.....	.. ..	....
11	Moon I, N.......	11	19 23.70	− 0.10	**−20.38**	325 34 7.48	47.341	− 37.5	**37.6**	10 19 3.22	+61.60	+ 4 33 28.4	....
12	ρ Leonis	11	27 55.06	− 0.11	−20.28	330 50 7.78	45.678	− 30.5	37.0	10 27	.....	.. ..	....
13	46 Leonis Minoris...	11	48 5.84	− 0.19	−20.50	355 46 7.42	44.596	− 4.0	37.2	10 47	.....	.. ..	....
14	α Ursæ Majoris	10	57 55.83	− 0.31	[−20.41]	23 18 8.65	44.176	+ 23.6	[39.0]	10 57	.....	.. ..	....
	July 1, Ei.												
15	α Tauri..	11	30 33.02	− 0.16	−20.28	337 20 6.90	43.732	− 23.3	38.9	4 30	.....	.. ..	....
16	ι Aurigæ..........	11	50 51.25	− 0.20	−20.40	354 2 5.92	42.575	− 5.8	38.5	4 50	.....	.. ..	....
17	β Eridani..........	11	3 17.66	− 0.10	−20.35	315 48 7.15	47.132	− 54.0	38.3	5 2	.....	.. ..	....
18	β Orionis..........	11	10 5.45	− 0.10	−20.34	312 42 7.30	47.165	−1 0.2	38.6	5 9	.....	.. ..	....
	July 2, Ei.												
19	Sun I, N.........	11	44 4.63	− 0.18	**−20.33**	344 20 8.35	43.848	− 15.5	**38.9**	6 43 44.12	+68.71	+23 18 43.9	....
20	Sun II, S........	11	46 22.04	− 0.18	**−20.33**	343 48 8.60	45.452	− 16.0	**38.9**	6 46 1.53	−68.70	+22 47 12.4	....
21	Venus I, N	11	21 50.28	− 0.17	**−20.33**	340 6 7.82	49.052	− 19.9	**38.9**	7 21 29.78	+ 2.05	+19 6 17.9	....
22	α Canis Minoris....	11	34 25.79	− 0.14	−20.24	326 30 7.20	45.071	− 36.5	39.8	7 34	.....	.. ..	....
23	Mercury I, C.....	11	35 31.81	− 0.17	**−20.32**	339 58 8.00	45.722	− 20.0	**38.9**	8 35 11.32	+ 0.27	+18 57 13.8	....
24	ε Hydræ	7	41 50.77	− 0.14	−20.29	327 48	......	....	....	8 41	.....	.. ..	....
25	α Lyncis	11	15 20.12	− 0.21	−20.36	355 50 6.72	43.710	− 4.0	38.4	9 14	.....	.. ..	....
26	α Hydræ	11	23 2.36	− 0.10	−20.39	312 48 7.20	44.729	− 59.2	39.6	9 22	.....	.. ..	....
27	ρ Leonis	10	27 55.08	− 0.15	−20.27	330 50	......	....	....	10 27	.....	.. ..	....
28	46 Leonis Minoris...	9	48 5.79	− 0.21	−20.44	355 46 6.18	44.744	− 4.0	38.8	10 47	.....	.. ..	....
29	α Ursæ Majoris	11	57 55.68	− 0.31	[−20.29]	23 18 8.25	44.224	+ 23.6	[39.7]	10 57	.....	.. ..	....
30	Moon I, N.......	11	4 53.64	0.12	**−20.36**	320 56 6.05	42.575	− 44.3	**38.9**	11 4 33.16	+61.11	− 0 6 12.5	....
31	δ Leonis...........	9	9 9.97	− 0.17	−20.29	342 6	......	....	....	11 8	.....	.. ..	....
32	ν Ursæ Majoris	9	13 27.36	− 0.20	−20.45	354 38 6.72	48.389	− 5.1	38.8	11 13	.....	.. ..	....
33	α Ursæ Minoris S. P.	8	23 7.91	+ 3.82	[−19.11]	52 12 7.89	48.586	+1 11.3	[40.3]	1 22	.....	.. ..	....
34	ζ Virginis	11	29 59.13	− 0.13	−20.33	320 56 7.18	45.435	− 44.7	[39.0]	13 29	.....	.. ..	....
35	η Ursæ Majoris	11	43 59.05	− 0.30	[−20.36]	10 48 7.70	49.034	+ 10.7	[39.7]	13 43	.....	.. ..	....
	July 4, Ei.												
36	β Andromedæ	11	4 30.71	− 0.22	[−19.79]	356 6 4.45	45.974	− 3.7	[39.6]	1 4	.....	.. ..	....
37	α Ursæ Minoris....	8	23 22.25	− 5.29	[−21.79]	49 46 7.46	44.903	+1 4.9	[40.3]	1 22	.....	.. ..	....
38	υ Andromedæ	11	31 18.41	− 0.25	[−19.83]	1 56 4.98	42.091	+ 1.9	[40.3]	1 30	.....	.. ..	....
	July 4, B.												
39	ι Aurigæ..........	11	50 50.65	− 0.29	−19.62	354 2 4.38	42.645	− 5.6	38.0	4 50	.....	.. ..	....
40	α Orionis..........	11	50 6.57	− 0.19	−19.49	328 24	......	....	....	5 49	.....	.. ..	....
	July 5, B.												
41	Sun I, S.........	11	56 26.47	− 0.28	**−19.53**	343 32 3.85	48.412	− 15.8	**38.8**	6 56 6.66	+68.60	+22 32 7.2	....
42	Sun II, N........	11	58 43.67	− 0.28	**−19.53**	344 2 4.60	53.195	− 15.3	**38.8**	6 58 23.86	−68.60	+23 3 37.9	...

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
30	9	10	29.805	80.0	75.9
	9	50	29.795	78.5	76.6
	13	14	29.80	76.0	73.6
	13	57	29.80	73.5	71.0
1	10	0	29.92	78.2	77.1
	11	0	29.89	78.8	80.1
	4	32	30.05	74.5	71.9
	5	13	30.04	75.5	73.0
2	6	46	30.035	76.9	75.7
	7	18	30.035	77.5	76.7
	8	5	30.04	78.0	77.1
	8	46	30.03	80.0	79.1
	9	29	30.02	81.0	79.3
	10	51	29.99	81.0	81.8
	11	21	29.99	81.0	81.9
	13	12	30.00	78.0	77.9
	13	50	29.99	76.0	74.3
4	1	0	29.90	79.0	78.0
	1	38	29.92	80.5	79.8
	4	54	29.91	88.5	87.9
	5	38	29.91	89.6	88.3
5	6	59	29.90	90.2	89.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 11, 30.	Bisections at II, III, IV, V, VI.
6.	Bisections at c_5, c_4, c_3, c_2, c_1.
17.	Bisections at II, VII.
19.	Bisections at I, II, III.
20.	Bisections at V, VI.
25, 39.	Bisections at II, VI, VII.
33.	Bisections at c_5, c_4, c_3, c_2.
37.	Bisections at c_1, c_2, c_3, c_4, c_5.
41.	Bisections at I, II.
42.	Bisections at VI, VII.
6, 33, 37.	Microscopes read before and after bisections.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+27 4.4	−14 58.0	...	+12 6.4
11	+30 33.0	−14 52.2	...	+15 40.8
19	+ 2.3	−15 45.7	...	−15 43.4
20	+ 2.4	+15 45.7	...	+15 48.1
21	+ 10.0	− 28.8	...	− 18.8
23	+ 3.4	....	− 0.4	+ 3.0
30	+33 58.5	−14 48.9	...	+19 9.6
41	+ 2.4	+15 45.3	...	+15 47.7
42	+ 2.3	−15 45.3	...	−15 43.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Canis Minoris....	11	34 25.08	− 0.20	−19.46	326 30 4.92	45.139	− 35.4	39.6	7 34	.....	.. ..	....
2	β Geminorum	7	39 33.36	− 0.32	−19.61	349 16 4.98	47.748	− 10.1	39.4	7 39	.....	.. ..	....
3	Mercury I, C	11	46 40.74	− 0.28	**−19.51**	338 40 5.55	45.300	− 20.7	**38.8**	8 46 20.95	+ 0.29	+17 39 2.6	....
4	ε Leonis	11	40 32.03	− 0.33	−19.42	345 14 5.48	47.760	− 14.0	38.8	9 40	.....	.. ..	....
5	μ Leonis	10	47 26.26	− 0.34	−19.56	347 30 4.88	43.310	− 11.8	38.0	9 47	.....	.. ..	....
	July 5, Ei.												
6	β Andromedæ	11	4 30.36	− 0.22	−19.41	356 6 4.00	46.006	− 3.7	[39.5]	1 4	.....	.. ..	....
7	α Ursæ Minoris	8	23 23.69	− 5.75	[−21.65]	49 46 6.59	44.977	+1 4.6	[40.5]	1 22	.....	.. ..	....
8	υ Andromedæ	11	31 18.05	− 0.25	−19.43	1 56 0.20	42.370	+ 1.9	[40.8]	1 30	.....	.. ..	....
9	α Tauri	5	30 32.10	− 0.22	−19.20	337 20 5.22	43.832	− 22.4	39.1	4 30	.....	.. ..	....
10	ι Aurigæ..........	11	50 50.35	− 0.28	−19.31	354 2 4.38	42.701	− 5.6	39.7	4 50	.....	.. ..	....
11	β Eridani..........	8	3 16.67	− 0.15	−19.22	315 48 5.38	47.165	− 52.1	39.1	5 2	.....	.. ..	....
12	β Orionis..........	11	10 4.42	− 0.13	−19.20	312 42 5.38	47.238	− 58.0	39.5	5 9	.....	.. ..	....
13	β Tauri............	11	20 19.56	− 0.28	−19.28	349 32 5.08	45.714	− 9.8	39.4	5 20	.....	.. ..	....
	July 6, Ei.												
14	Sun I, S..........	11	0 33.10	− 0.29	**−19.15**	343 26 6.00	48.977	− 15.8	**39.6**	7 0 13.66	+68.53	+22 26 19.2	....
15	Sun II, N..........	11	2 50.15	− 0.29	**−19.15**	343 58 5.65	47.587	− 15.3	**39.6**	7 2 30.71	−68.52	+22 57 50.2	....
16	α² Geminorum	..	.. ..	....	.....	353 8 4.58	42.645	− 6.4	40.8	7 28	.....	.. ..	....
17	α Canis Minoris....	11	34 24.74	− 0.23	−19.08	326 30 5.40	45.148	− 35.2	40.4	7 34	.....	.. ..	....
18	β Geminorum......	11	39 32.95	− 0.32	−19.20	349 16 5.70	47.662	− 10.0	39.5	7 39	.....	.. ..	....
19	ε Hydræ	12	41 49.63	− 0.25	−19.04	327 48 3.82	45.898	− 33.4	38.8	8 41	....	.. ..	....
20	α Lyncis	..	.. ..	....	.....	355 50 3.98	43.840	− 3.8	39.8	9 14	....	.. ..	....
21	α Hydræ	11	23 1.08	− 0.19	−19.02	312 48 4.62	44.808	− 57.1	40.1	9 22	.....	.. ..	....
22	α Ursæ Minoris S. P.	8	23 9.21	+ 8.76	[−21.09]	52 12 5.59	48.901	+1 8.4	[41.4]	1 22	.....	.. ..	....
23	ζ Virginis	11	29 57.77	− 0.24	−18.91	320 56 5.50	45.510	− 42.9	40.3	13 29	.....	.. ..	....
24	η Ursæ Majoris	11	43 57.75	− 0.52	[−18.94]	10 48 4.35	49.280	+ 10.2	[40.3]	13 43	.....	.. ..	....
25	κ Virginis	11	7 56.01	− 0.20	−19.00	311 14 4.82	41.938	−1 0.6	40.4	14 7	.....	.. ..	....
26	Moon I, N.......	11	12 42.14	− 0.16	**−18.98**	304 2 3.88	43.495	−1 18.6	**40.0**	14 12 23.00	+65.07	−17 0 32.5	....
27	ρ Bootis...........	10	27 53.39	− 0.39	−19.05	351 50 4.00	43.439	− 7.6	40.1	14 27	.....	.. ..	....
28	α² Libræ	11	45 43.37	− 0.17	−18.98	305 24 4.48	45.579	−1 15.2	39.3	14 45	.....	.. ..	....
29	β Ursæ Minoris	5	51 21.16	− 1.02	[−18.81]	35 34 6.78	45.200	+ 38.5	[41.2]	14 51	.....	.. ..	....
30	δ Scorpii	11	54 48.20	− 0.13	−18.84	298 42 4.55	45.025	−1 38.6	41.1	15 54	.....	.. ..	....
31	Jupiter I, N	6	59 30.03	− 0.14	**−18.89**	301 16 4.68	47.708	−1 29.0	**40.5**	15 59 11.00	+ 1.57	−19 45 21.5	....
32	Jupiter II, S	5	59 33.16	− 0.14	**−18.89**	301 16 4.68	45.478	−1 29.0	**40.5**	15 59 14.13	− 1.56	−19 46 4.5	....
33	δ Ophiuchi	10	9 29.13	− 0.23	−18.94	317 36 6.45	42.780	− 49.5	40.2	16 9	.....	.. ..	....
34	α Scorpii	11	23 39.86	− 0.10	−18.92	294 50 4.08	44.878	−1 56.6	40.1	16 23	.....	.. ..	....
35	Uranus C, C	11	30 6.74	− 0.13	**−18.86**	299 14 0.68	47.351	−1 36.6	**40.5**	16 29 47.75	.....	−21 47 40.0	....
36	κ Ophiuchi	11	53 18.75	− 0.29	−18.79	330 34 5.92	42.176	− 30.7	40.5	16 52	.....	.. ..	....
	July 6, Br.												
37	ι Aurigæ..........	5	50 50.08	− 0.28	[−19.01]	354 2 5.62	42.670	− 5.6	39.7	4 50	.....	.. ..	....
39	α Orionis..........	11	50 5.82	− 0.20	−18.70	328 24 5.45	46.742	− 33.0	39.8	5 49	.....	.. ..	....
40	θ Aurigæ..........	11	53 15.19	− 0.32	−18.90	358 14 4.92	41.963	− 1.6	39.8	5 52	.....	.. ..	....
41	μ Geminorum	11	17 15.41	− 0.27	−18.85	343 34 5.85	47.525	− 15.7	39.7	6 16	.....	.. ..	....
42	γ Geminorum	11	32 16.59	− 0.25	−18.69	337 30 4.92	45.340	− 22.1	39.9	6 31	.....	.. ..	....
	July 7, Br.												
43	Sun I, S..........	11	4 39.16	− 0.29	**−18.77**	343 20 6.10	48.090	− 15.9	**39.4**	7 4 20.10	+68.54	+22 20 2.5	....
44	Sun II, N	11	6 56.24	− 0.29	**−18.77**	343 52 4.75	47.010	− 15.4	**39.4**	7 6 37.18	−68.54	+22 51 37.9	....
45	Mercury I, C	11	52 52.22	− 0.30	**−18.74**	337 50 5.35	42.650	− 21.6	**38.9**	8 52 33.18	+ 0.30	+16 48 10.8	....
46	α Lyncis	7	15 18.82	− 0.40	−18.89	355 50 5.50	43.715	− 3.8	38.6	9 14	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
5 7 45	29.88	91.8	91.3
8 44	29.87	94.0	93.3
9 50	29.85	93.2	93.7
1 0	29.81	78.5	77.9
1 39	29.82	81.0	79.9
4 26	29.83	88.0	87.1
5 25	29.84	90.0	88.9
6 7 3	29.815	91.5	90.9
7 45	29.82	92.8	92.0
8 36	29.80	93.5	92.9
9 28	29.79	95.0	94.0
13 11	29.75	93.0	95.7
14 20	29.76	89.5	89.8
15 0	29.78	88.0	86.2
15 50	29.78	84.0	81.1
16 59	29.76	82.0	79.8
4 47	29.77	84.6	84.3
5 58	29.77	86.9	86.5
6 22	29.77	88.5	88.3
6 36	29.77	89.0	88.7
7 7 7	29.775	90.2	90.0
8 47	29.73	92.5	91.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 19, 33, 44.	Bisections at VI, VII.
5, 18, 37, 40.	Bisections at II, VI, VII.
7.	Bisections at c_1, c_2, c_3, c_4, c_5.
9.	Bisections at I, VI, VII.
11, 20, 30.	Bisections at I, II, VII.
14.	Bisections at I, II, III.
15.	Bisections at V, VI, VII.
16.	Bisections at II, VII.
22.	Bisections at c_5, c_4, c_3, c_2, c_1.
26.	Bisections at II, III, IV, V, VI.
29, 43.	Bisections at I, II.
31.	Bisections at I, VII.
32.	Bisections at II, VI.
7, 22.	Microscopes read before and after bisections.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 3.9	....	− 0.5	+ 3.4
14	+ 2.4	+15 45.5	...	+15 47.9
15	+ 2.4	−15 45.5	...	−15 43.1
26	+45 32.4	−15 3.9	...	+30 28.5
31	+ 1.7	− 21.5	...	− 19.8
32	+ 1.7	+ 21.5	...	+ 23.2
35	+ 0.4	....	...	+ 0.4
43	+ 2.5	+15 47.6	...	+15 50.1
44	+ 2.4	−15 47.7	...	−15 45.3
45	+ 4.2	....	− 0.6	+ 3.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Leonis	11	40 31.35	− 0.36	−18.71	345 14 6.40	47.785	− 13.9	38.7	9 40	.....	.. ..	....
2	α Leonis	11	3 23.49	− 0.31	−18.61	333 28 4.92	46.010	− 26.4	38.4	10 3	.....	.. ..	....
3	γ^1 Leonis	8	14 48.45	− 0.35	−18.69	341 22 5.90	44.014	− 17.8	38.7	10 14	.....	.. ..	....
4	ε Bootis	11	40 58.97	− 0.27	−18.70	348 30 6.95	47.010	− 10.9	41.2	14 40	.....	.. ..	....
5	α^2 Libræ	11	45 42.96	− 0.07	−18.68	305 24 4.45	45.728	−1 15.8	41.5	14 45	.....	.. ..	....
6	γ Scorpii	11	58 35.38	− 0.02	−18.58	296 10 3.95	41.860	−1 49.5	40.7	14 58	.....	.. ..	....
7	Moon I, N	11	5 13.78	− 0.05	**−18.63**	301 4 4.05	47.277	−1 29.4	**41.0**	15 4 55.10	+67.07	−19 57 31.5	....
8	β Coronæ Borealis	11	24 4.16	− 0.28	−18.56	350 28 5.12	44.838	− 9.1	40.4	15 23	.....	.. ..	....
	July 8, B.												
9	γ^2 Ursæ Minoris	11	21 13.66	− 0.78	[−17.81]	33 12 6.38	44.035	+ 35.2	[40.7]	15 20	.....	.. ..	....
10	α Serpentis	11	39 42.05	− 0.21	−17.95	327 46 4.15	44.008	− 33.8	40.5	15 39	.....	.. ..	....
11	ε Serpentis	11	46 11.39	− 0.20	−17.92	325 48 5.45	44.991	− 36.4	39.1	15 45	.....	.. ..	....
12	δ Scorpii	11	54 47.29	− 0.06	−18.01	298 42 3.98	44.976	−1 37.5	40.2	15 54	.....	.. ..	....
13	Jupiter I	6	58 57.58	− 0.08	**−17.96**	301 18	......	....	....	15 58 39.54	+ 1.70	.. ..	....
14	Jupiter II	5	59 0.98	− 0.08	**−17.96**	... .	......	....	....	15 58 42.94	− 1.70	.. ..	....
15	Moon I, N	11	0 57.48	− 0.07	**−17.96**	299 4 4.70	45.011	−1 36.1	**39.8**	16 0 39.45	+69.00	−21 58 19.9	....
16	δ Ophiuchi	11	9 28.07	− 0.16	−17.97	317 36 4.72	42.735	− 49.0	39.6	16 9	.....	.. ..	....
17	α Scorpii	11	23 38.84	− 0.04	−17.97	294 50 4.42	44.776	−1 55.3	39.8	16 23	.....	. . ....	....
18	Uranus C, C	11	29 50.10	− 0.07	**−17.95**	299 16 4.25	42.478	−1 35.5	**39.8**	16 29 32.08	.....	−21 47 8.0	....
19	ζ Ophiuchi	11	32 1.07	− 0.13	−17.92	310 40	......	....	....	16 31	.....	.. ..	....
	July 9, Ei.												
20	α Ursæ Minoris S. P.	8	23 14.10	+ 6.98	[−20.71]	52 12 5.68	48.688	+1 11.1	[40.1]	1 23	.....	.. ..	....
21	η Ursæ Majoris	11	43 56.22	− 0.40	[−17.60]	10 48 7.00	49.101	+ 10.6	[39.7]	13 43	.....	.. ..	....
22	η Bootis	11	50 15.87	− 0.24	[−17.56]	339 54 7.00	47.756	− 20.1	[39.6]	13 49	.....	.. ..	....
23	δ Ophiuchi	11	9 27.72	− 0.16	−17.62	317 36 6.40	42.811	− 50.7	41.0	16 9	.....	.. ..	....
24	α Scorpii	11	23 38.48	− 0.08	−17.57	294 50 5.52	44.991	−1 59.5	40.8	16 23	.....	.. ..	....
25	Uranus C, C.	11	29 42.45	0.10	**−17.52**	299 16 5.88	43.426	−1 38.9	**40.9**	16 29 24.83	.....	−21 46 52.8	....
26	κ Ophiuchi	11	53 17.23	− 0.20	−17.37	330 34 6.28	42.236	− 31.4	40.9	16 52	.....	.. ..	....
27	Moon I	11	59 36.04	− 0.10	**−17.52**	297 58	......	....	....	16 59 18.42	+70.51	.. ..	....
28	α Ophiuchi	11	30 38.78	0.21	−17.38	333 40 6.90	42.624	− 27.6	41.8	17 30	.....	.. ..	....
29	ω Draconis	5	37 53.14	− 0.42	[−17.43]	29 48 8.60	46.791	+ 32.1	[41.1]	17 37	.....	.. ..	....
30	μ Herculis	11	42 53.85	− 0.24	−17.49	348 48 6.88	44.291	− 11.0	41.0	17 42	... .	.. ..	....
31	Saturn I, S	5	2 43.16	0.12	**−17.51**	298 34 6.15	43.222	−1 42.2	**41.7**	18 2 25.53	+ 0.70	−22 29 0.5	....
32	Saturn II, N	6	2 44.57	− 0.12	**−17.51**	298 34 6.15	44.322	−1 42.2	**41.7**	18 2 26.94	− 0.71	−22 28 39.6	....
33	μ Sagittarii	11	8 9.14	− 0.12	−17.57	299 58 6.92	42.844	−1 36.6	41.7	18 7	.....	.. ..	....
34	η Serpentis	11	16 29.82	− 0.18	−17.54	318 6	......	....	....	18 16	.....	.. ..	....
35	λ Sagittarii	11	22 10.27	− 0.12	−17.55	295 34 5.28	45.538	−1 56.2	42.2	18 21	.....	.. ..	....
	July 9, Br.												
36	β Orionis	11	10 2.75	− 0.07	−17.51	312 42 6.52	47.286	− 59.8	39.1	5 9	.....	.. ..	....
37	β Tauri	11	20 17.89	− 0.18	−17.62	349 32 7.20	45.592	− 10.2	38.8	5 20	.....	.. ..	....
38	δ Orionis	11	27 12.88	− 0.10	−17.53	320 40 6.75	42.119	− 45.2	39.2	5 26	.....	.. ..	....
39	ε Orionis	11	31 27.35	− 0.10	−17.54	319 46 6.28	43.595	− 46.7	38.8	5 31	.....	.. ..	....
40	α Orionis	..	.. ..	....	.....	328 24 6.96	46.676	− 33.9	38.8	5 49	.....	.. ..	....
	July 10, Br.												
41	Sun I, N	11	16 54.84	− 0.20	**−17.51**	343 32 6.55	43.645	− 16.2	**38.9**	7 16 37.13	+68.37	+22 30 37.7	....
42	Sun II, S	11	19 11.57	− 0.20	**−17.51**	343 0 7.32	45.130	− 16.8	**38.9**	7 18 53.86	−68.36	+21 59 3.4	....
43	α Canis Minoris	11	34 23.14	− 0.15	−17.53	326 30 5.72	45.174	− 36.2	39.9	7 34	.....	.. ..	....
44	β Geminorum	8	39 31.46	− 0.23	[−17.76]	349 16 6.70	47.600	− 10.3	39.3	7 39	.....	.. ..	....
45	Mercury I, C	11	0 11.90	− 0.22	**−17.47**	336 38 5.92	41.785	− 23.5	**38.9**	8 59 54.21	+ 0.31	+15 35 53.0	....
46	α Lyncis	8	15 17.37	− 0.30	−17.54	355 50 5.15	43.748	− 3.9	38.5	9 14	.....	.. ..	....
47	α Hydræ	11	22 59.41	− 0.13	−17.42	312 48 6.58	44.732	− 58.7	38.6	9 22	.....	.. ..	....
48	ε Leonis	10	40 29.99	− 0.26	−17.46	345 14 6.82	47.731	− 14.3	39.4	9 40	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
7 9 44	29.72	95.0	93.7
10 19	29.71	94.1	93.9
14 34	29.68	84.3	82.0
15 13	29.685	82.9	81.1
15 28	29.69	82.1	80.7
8 15 26	29.48	84.0	82.7
16 12	29.49	82.2	81.5
16 37	29.49	81.8	81.0
9 13 14	29.65	76.0	72.7
13 55	29.67	74.0	70.6
16 13	29.72	70.0	67.5
17 26	29.73	68.5	65.9
18 28	29.74	67.0	64.6
5 3	29.845	74.1	72.1
5 35	29.85	75.8	73.9
6 34	29.855	76.1	74.0
10 7 19	29.88	78.2	77.1
7 43	29.87	79.0	78.9
9 3	29.86	82.0	81.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 42. Bisections at VI, VII.
7, 15. Bisections at II, III, IV, V, VI.
20. Bisections at c_5, c_4, c_3, c_2.
29. Bisections at I, II, III, V.
31. Bisections at I, VII.
32. Bisections at II, VI.
41. Bisections at I, II.
44, 46. Bisections at II, VI, VII.
20, 40. Microscopes read before and after bisections.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+47 37.4	−15 14.4	...	+32 23.0
15	+49 16.1	−15 26.7	...	+33 49.4
18	+ 0.4	....	...	+ 0.4
25	+ 0.4	....	...	+ 0.4
31	+ 0.9	+ 10.4	...	+ 11.3
32	+ 0.9	− 10.5	...	− 9.6
41	+ 2.4	−15 47.1	...	−15 44.7
42	+ 2.5	+15 47.1	...	+15 49.6
45	+ 4.7	....	− 0.8	+ 3.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	μ Leonis	11	47 24.18	− 0.27	−17.57	347 30 5.72	43.320	− 12.0	38.1	9 47	.....	.. ..	....
2	α Leonis	11	3 22.04	− 0.23	−17.25	333 28 5.72	46.015	− 27.1	38.6	10 3	.....	.. ..	....
3	β Libræ	11	11 58.48	− 0.18	−17.31	312 0 6.15	47.340	−1 1.0	40.6	15 11	.....	.. ..	....
4	μ^1 Bootis	11	21 3.20	− 0.34	−17.32	358 44 5.42	46.534	− 1.2	40.1	15 20	.....	.. ..	....
5	β Coronæ Borealis	11	24 2.85	− 0.31	−17.25	350 28 5.68	44.804	− 9.2	39.8	15 23	.....	.. ..	....
6	Moon I, N	11	0 15.08	− 0.16	**−17.23**	298 46 5.10	42.777	−1 40.9	**40.7**	17 59 57.69	+ 71.28	−22 17 5.2	....
7	Moon S	..	.. ..	....	.....	298 14 4.68	43.182	−1 43.1	**40.7**	.. ..	.....	−22 49 5.4	....
8	μ Sagittarii	11	8 8.86	− 0.17	−17.24	299 58 5.12	42.861	−1 36.1	40.7	18 7	.....	.. ..	....
9	η Serpentis	11	16 29.53	− 0.22	−17.21	318 6 6.50	45.558	− 49.9	40.8	18 16	.....	.. ..	....
10	λ Sagittarii	11	22 9.97	− 0.15	−17.22	295 34 5.98	45.404	−1 55.7	40.9	18 21	.....	.. ..	....
	July 10, Ei.												
11	α Tauri	11	30 30.06	− 0.29	−16.97	337 20 5.28	43.795	− 22.8	38.1	4 30	.....	.. ..	....
12	ι Aurigæ	11	50 48.27	− 0.35	−17.03	354 2 4.08	42.622	− 5.7	37.8	4 50	.....	.. ..	....
13	ζ Aurigæ	11	55 48.91	− 0.38	−16.96	1 56 4.32	46.221	+ 1.9	36.7	4 55	.....	.. ..	....
14	β Eridani	11	3 14.65	− 0.21	−17.04	315 48 5.22	47.200	− 52.8	37.7	5 2	.....	.. ..	....
15	β Orionis	11	10 2.45	− 0.20	−17.06	312 42 6.50	47.181	− 58.8	37.8	5 9	.....	.. ..	....
16	Venus II, N	11	58 5.52	− 0.29	**−17.01**	338 54 5.62	45.672	− 20.8	**37.6**	6 57 48.22	− 2.05	+17 53 11.0	....
	July 11, Ei.												
17	Sun I, S	11	20 59.37	− 0.31	**−17.01**	342 52 3.52	45.967	− 16.6	**37.6**	7 20 42.05	+68.24	+21 51 19.9	....
18	Sun II, N	11	23 15.84	− 0.31	**−17.01**	343 24 2.30	44.668	− 16.0	**37.6**	7 22 58.52	−68.23	+22 22 52.0	....
19	Mercury I, C	11	2 5.79	− 0.28	**−17.00**	336 14 5.38	46.150	− 23.6	**37.6**	9 1 48.51	+ 0.31	+15 13 17.1	....
20	α Lyncis	11	15 16.96	− 0.35	−17.08	355 50 4.35	43.718	− 3.9	37.2	9 14	.....	.. ..	....
21	α Hydræ	11	22 59.05	− 0.20	−16.99	312 48 4.90	44.662	− 57.8	38.0	9 22	.....	.. ..	....
22	θ Ursæ Majoris	5	26 29.28	− 0.43	[−17.07]	13 8 6.18	46.204	+ 12.6	[38.4]	9 26	.....	.. ..	....
23	ο Leonis	10	36 7.68	− 0.27	−16.90	331 22 5.80	44.439	− 29.2	37.4	9 35	.....	.. ..	....
24	ε Leonis	11	40 29.62	− 0.31	−17.04	345 14 5.82	47.681	− 14.1	37.8	9 40	.....	.. ..	....
25	α Ursæ Minoris S. P.	8	23 14.66	+ 7.72	[−19.85]	52 12 6.54	48.708	+1 9.5	[40.1]	1 23	.....	.. ..	....
26	ζ Virginis	11	29 55.75	− 0.30	[−16.88]	320 56 4.70	45.532	− 43.4	[39.1]	13 29	.....	.. ..	....
27	η Ursæ Majoris	11	43 55.59	− 0.55	[−16.87]	10 48 4.48	49.219	+ 10.4	[39.1]	13 43	.....	.. ..	....
28	α Ophiuchi	11	30 38.28	− 0.27	−16.82	333 40 6.28	42.506	− 27.2	38.9	17 30	.....	.. ..	....
29	ω Draconis	5	37 52.96	− 0.63	[−17.09]	29 48 7.78	46.824	+ 31.6	[38.4]	17 37	.....	.. ..	....
30	Saturn I, N	6	2 7.32	− 0.13	**−16.86**	298 34 4.50	43.380	−1 40.6	**38.7**	18 1 50.33	+ 0.72	−22 28 54.5	....
31	Saturn II, S	5	2 8.76	− 0.13	**−16.86**	298 34 4.50	42.310	−1 40.6	**38.7**	18 1 51.77	− 0.72	−22 29 15.1	....
32	μ Sagittarii	11	8 8.51	− 0.14	−16.91	299 58 3.92	42.748	−1 35.1	38.4	18 7	.....	.. ..	....
33	η Serpentis	..	.. ..	....	.....	318 6 10.68	45.175	− 49.3	38.2	18 16	.....	.. ..	....
34	λ Sagittarii	..	.. ..	....	.....	295 34 4.02	45.312	−1 54.4	38.4	18 21	.....	.. ..	....
35	σ Sagittarii	11	49 25.53	− 0.11	−16.86	294 38 4.32	43.719	−1 59.4	38.4	18 49	.....	.. ..	....
36	Moon I, N	11	1 34.03	− 0.14	**−16.85**	300 42 3.68	47.894	−1 32.4	**38.7**	19 1 17.04	+71.24	−20 19 20.7	....
37	d Sagittarii	11	12 8.54	− 0.14	−16.89	301 54 5.50	46.589	−1 28.2	38.9	19 11	.....	.. ..	....
38	δ Aquilæ	11	20 48.39	− 0.24	−16.79	323 56 6.40	46.521	− 40.1	39.4	19 20	.....	.. ..	....
	July 11, B.												
39	α Tauri	11	30 29.75	− 0.28	−16.64	337 20 32.68	42.465	− 22.7	38.7	4 30	.....	.. ..	....
40	ι Aurigæ	11	50 48.01	− 0.35	−16.74	354 2 4.80	42.568	− 5.6	37.6	4 50	.....	.. ..	....
41	β Eridani	11	3 14.32	− 0.18	−16.71	315 48 5.50	47.212	− 52.6	38.2	5 2	.....	.. ..	....
42	β Orionis	11	10 2.12	− 0.17	−16.74	312 42 5.18	47.270	− 58.5	38.4	5 9	.....	.. ..	....
	July 12, B.												
43	Sun I, S	11	25 3.49	− 0.30	**−16.65**	342 44 5.92	45.435	− 16.6	**38.1**	7 24 46.54	+68.17	+21 43 11.5	....
44	Sun II, N	11	27 19.82	− 0.30	**−16.65**	343 16 5.02	44.008	− 16.1	**38.1**	7 27 2.87	−68.16	+22 14 41.5	....
45	α Leonis	11	3 21.39	− 0.26	−16.58	333 28 13.85	45.550	− 26.9	38.0	10 3	.....	.. ..	....
46	γ^1 Leonis	11	14 46.32	− 0.29	−16.64	341 22 5.62	43.994	− 18.1	37.8	10 14	.....	.. ..	....
47	ρ Leonis	11	27 51.39	− 0.25	−16.55	330 50 5.28	45.841	− 30.0	37.7	10 27	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
10 10 7	29.86	83.0	81.8
15 15	29.85	76.5	74.9
15 27	29.85	76.0	74.4
18 7	29.855	70.9	69.7
18 26	29.86	70.5	69.0
4 27	29.92	78.5	79.9
5 16	29.93	82.5	82.9
7 3	29.93	84.5	86.3
11 7 23	29.925	85.0	87.1
8 59	29.91	88.5	89.1
9 47	29.91	91.5	90.7
13 14	29.85	86.5	87.9
13 50	29.85	86.0	85.8
17 25	29.85	77.0	75.9
19 26	29.85	75.5	74.0
4 34	29.84	80.0	81.2
5 13	29.85	83.3	84.1
12 7 27	29.835	87.5	88.0
9 57	29.79	84.8	84.7
10 30	29.77	84.8	86.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 39. Bisections at VI, VII.
6, 17, 43. Bisections at I, II, III.
7, 18, 44. Bisections at V, VI, VII.
13. Bisections at I, II, VII.
20. Bisections at II, VI, VII.
21. Bisections at I, II.
22. Bisections at II, III, V, VI.
25. Bisections at c_5, c_4, c_3, c_2, c_1.
30. Bisections at I, VII.
31. Bisections at II, VI.
36 Bisections at II, III, IV, V, VI.
25. Microscopes read before and after bisections.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+50 49.3	−15 52.4	...	+34 56.9
7	+51 5.1	+15 52.4	− 0.4	+66 57.1
16	+ 10.8	− 29.3	...	− 18.5
17	+ 2.5	+15 46.0	...	+15 48.5
18	+ 2.4	−15 46.0	...	−15 43.6
19	+ 4.8	....	− 0.9	+ 3.9
30	+ 0.9	− 10.3	...	− 9.4
31	+ 0.9	+ 10.3	...	+ 11.2
36	+50 26.6	−16 4.7	...	+34 21.9
43	+ 2.5	+15 45.0	...	+15 47.5
44	+ 2.5	−15 45.0	...	−15 42.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Ursæ Majoris....	11	57 52.22	− 0.57	[−16.82]	23 18 8.28	44.154	+ 23.2	[39.4]	10 57	.....	.. ..	....
	July 12, Ei.												
2	β Andromedæ	11	4 27.88	− 0.31	[−16.59]	356 6 3.98	46.008	− 3.8	[38.3]	1 4	.....	.. ..	....
3	α Ursæ Minoris....	8	23 25.64	− 7.16	[−14.46]	49 46 7.89	44.714	+1 6.5	[38.2]	1 23	.....	.. ..	....
4	υ Andromedæ.....	11	31 15.55	− 0.34	[−16.56]	1 56 5.58	41.999	+ 2.0	[38.2]	1 30	.....	.. ..	....
5	α Tauri	11	30 29.51	− 0.22	−16.44	337 20 5.68	43.784	− 23.1	37.9	4 30	.....	.. ..	....
6	ι Aurigæ.........	11	50 47.76	− 0.28	−16.53	354 2 4.90	42.482	− 5.7	37.5	4 50	.....	.. ..	....
7	ζ Aurigæ.........	11	55 48.31	− 0.31	−16.57	1 56 5.92	46.212	+ 1.9	37.8	4 55	.....	.. ..	....
8	β Eridani	11	3 14.02	− 0.15	−16.42	315 48 5.50	47.262	− 53.5	38.1	5 2	.....	.. ..	....
9	β Orionis.........	11	10 1.83	− 0.14	−16.46	312 42 5.35	47.300	− 59.6	37.9	5 9	.....	.. ..	....
10	Venus II, N	11	53 2.51	− 0.24	**−16.49**	338 42 7.38	42.874	− 21.3	**37.5**	6 52 45.78	− 2.03	+17 40 18.7	....
	July 13, Ei.												
11	Sun S	..	.. ..	....	.....	342 36 5.62	43.775	− 17.1	**37.5**	. .. .	.....	+21 34 39.5	....
12	Sun II, N........	11	31 23.24	− 0.26	**−16.49**	343 8 4.72	42.400	− 16.6	**37.5**	7 31 6.49	−68.12	+22 6 10.7	....
13	Mercury I, C.....	10	5 2.29	− 0.24	**−16.49**	335 32 4.40	45.468	− 24.7	**37.5**	9 4 45.56	+ 0.32	+14 31 2.0	....
14	θ Ursæ Majoris....	11	26 28.62	− 0.34	[−16.51]	13 8 10.42	45.925	+ 12.8	[37.4]	9 26	.....	.. ..	....
15	ε Leonis	9	40 29.06	− 0.27	−16.53	345 14 5.38	47.688	− 14.3	37.4	9 40	.....	.. ..	....
16	α Leonis	11	3 21.13	− 0.24	−16.34	333 28 4.95	46.000	− 27.1	37.4	10 3	.....	.. ..	....
17	γ^1 Leonis	11	14 46.10	− 0.26	−16.46	341 22 5.45	44.002	− 18.3	37.5	10 14	.....	.. ..	....
18	β Leonis Minoris ..	10	22 24.72	− 0.30	−16.53	358 14	......	....	....	10 22	.....	.. ..	....
19	46 Leonis Minoris ..	7	48 1.94	− 0.29	−16.62	355 46 4.35	44.758	− 4.0	36.3	10 47	.....	.. ..	....
20	α Serpentis........	11	39 40.35	− 0.26	−16.24	327 46 5.32	43.956	− 34.8	39.1	15 39	.....	.. ..	....
21	ε Serpentis........	11	46 9.74	− 0.25	−16.26	325 48 6.80	45.015	− 37.5	39.3	15 45	.....	.. ..	....
22	Jupiter I, N......	5	57 49.78	− 0.17	**−16.26**	301 20 10.80	44.716	−1 30.4	**39.3**	15 57 33.35	+ 1.58	−19 42 13.1	....
23	Jupiter II, S.....	6	57 52.93	− 0.17	**−16.26**	301 20 10.80	42.525	−1 30.5	**39.3**	15 57 36.50	− 1.57	−19 42 55.2	....
24	δ Ophiuchi........	11	9 26.42	− 0.23	−16.27	317 36 5.88	42.754	− 50.4	39.4	16 9	.....	.. ..	....
25	α Scorpii..........	11	23 37.16	− 0.15	−16.20	294 50 5.20	44.870	−1 58.8	38.9	16 23	.....	.. ..	....
26	Uranus C, C	11	29 12.70	− 0.16	**−16.23**	299 16 4.98	46.441	−1 38.3	**39.3**	16 28 56.31	.....	−21 45 53.7	....
27	α^1 Herculis.........	11	10 25.33	− 0.28	−16.25	335 32 5.92	43.356	− 25.2	39.7	17 10	.....	.. ..	....
28	ψ Capricorni.......	11	40 31.51	− 0.08	−16.43	295 26 4.95	42.414	−1 57.0	38.7	20 40	.....	.. ..	....
29	μ Aquarii..........	11	47 36.26	− 0.14	−16.40	311 40 6.75	46.662	−1 2.7	39.8	20 47	.....	.. ..	....
30	12 Year Cat. 1879.	5	52 31.28	− 0.76	[−16.48]	41 10 7.68	46.977	+ 49.1	[39.6]	20 52	.....	.. ..	....
31	Moon II, N......	11	3 46.88	− 0.13	**−16.40**	308 28 7.10	47.188	−1 10.2	**39.4**	21 3 30.35	−69.52	−12 33 9.4	....
32	ζ Cygni	11	9 1.15	− 0.25	−16.39	350 50 6.85	45.181	− 9.0	39.0	21 8	.....	.. ..	....
33	ζ Capricorni........	11	21 18.25	− 0.09	−16.42	298 12 5.80	45.482	−1 43.7	40.3	21 21	.....	.. ..	....
34	β Aquarii..........	11	26 38.09	− 0.15	−16.34	315 2 16.18	42.248	− 55.7	39.3	21 26	.....	.. ..	....
35	β Andromedæ	11	4 27.58	− 0.18	−16.38	356 6 5.70	45.968	− 3.8	[39.0]	1 4	.....	.. ..	....
36	α Ursæ Minoris....	8	23 23.89	− 1.54	[−17.41]	49 46 8.78	44.712	+1 6.7	[39.1]	1 23	.....	.. ..	....
37	υ Andromedæ	9	31 15.27	− 0.19	−16.40	1 56 6.78	42.000	+ 2.0	[39.3]	1 30	.....	.. ..	....
	July 13, Br.												
38	β Orionis..........	11	10 1.71	− 0.11	−16.35	312 42 6.08	47.282	− 59.4	38.2	5 9	.....	.. ..	....
39	β Tauri	11	20 16.85	− 0.22	−16.44	349 32 6.02	45.620	− 10.1	38.2	5 20	.....	.. ..	....
40	δ Orionis..........	11	27 11.81	− 0.14	−16.34	320 40 6.42	42.141	− 45.0	38.9	5 26	.....	.. ..	....
41	ε Orionis..........	11	31 26.27	− 0.14	−16.34	319 46 6.95	43.592	− 46.4	38.6	5 31	.....	.. ..	....
42	α Orionis..........	11	50 3.45	− 0.17	−16.23	328 24 6.35	46.700	− 33.7	38.6	5 49	.....	.. ..	....
43	Venus II, N	11	50 38.75	− 0.21	**−16.32**	338 36 6.30	43.454	− 21.4	**38.4**	6 50 22.22	− 2.02	+17 34 27.7	....
	July 14, Br.												
44	Sun I, S.........	11	33 10.42	− 0.24	**−16.31**	342 26 6.85	47.280	− 17.2	**38.4**	7 32 53.87	+68.09	+21 25 47.1	....
45	Sun II, N	11	35 26.60	− 0.24	**−16.31**	342 58 6.58	45.843	− 16.7	**38.4**	7 35 10.05	−68.09	+21 57 17.4	....
46	α Leonis	11	3 20.97	− 0.25	−16.18	333 28 7.20	45.918	− 27.0	38.2	10 3	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
12 11 1	29.76	86.2	87.9
1 2	29.84	68.5	64.9
1 37	29.85	68.0	65.7
4 26	29.87	74.0	72.4
5 7	29.87	76.0	75.0
6 55	29.86	80.0	78.5
13 7 31	29.85	80.0	78.9
9 1	29.85	82.0	81.7
10 8	29.85	84.5	82.2
10 26	29.84	84.5	82.5
10 53	29.85	83.5	81.9
15 50	29.85	75.0	73.2
16 47	29.86	73.5	72.1
17 13	29.87	73.0	71.8
20 45	29.88	70.0	67.5
21 31	29.87	69.0	67.9
1 7	29.90	67.0	64.2
1 39	29.92	68.0	64.8
5 5	29.93	78.2	77.3
5 35	29.93	78.8	77.9
5 53	29.94	79.6	78.8
6 54	29.94	81.0	79.5
14 7 35	29.[illegible]	81.8	81.2
10 6	29.915	86.6	84.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 36. Bisections at c_1, c_2, c_3, c_4, c_5.
6. Bisections at I, II.
11, 44. Bisections at I, II, III.
12, 45. Bisections at V, VI, VII.
19. Bisections at VI, VII.
22. Bisections at I, VII.
23. Bisections at II, VI.
30. Bisections at c_3, c_4, c_5, d_1, d_3.
31. Bisections at II, III, IV, V, VI.
41. Bisections at II, VI, VII.
3, 36. Microscopes read before and after bisections.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
10	+ 10.8	− 29.0	...	− 18.2
11	+ 2.6	+15 45.5	...	+15 48.1
12	+ 2.5	−15 45.6	...	−15 43.1
13	+ 5.2	....	− 1.0	+ 4.2
22	+ 1.6	− 21.0	...	− 19.4
23	+ 1.6	+ 21.1	...	+ 22.7
26	+ 0.4	....	...	+ 0.4
31	+46 37.5	−16 20.0	...	+30 17.5
43	+ 10.7	− 28.9	...	− 18.2
44	+ 2.6	+15 45.1	...	+15 47.7
45	+ 2.5	−15 45.1	...	−15 42.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ¹ Leonis	11	14 45.92	— 0.28	—16.26	341 22 7.35	43.939	— 18.2	38.4	10 14	.....	.. ..	....
2	δ Leonis	11	9 6.03	— 0.29	—16.34	342 6 7.62	42.105	— 17.5	38.3	11 8	.....	.. ..	....
	July 14, Ei.												
3	α Serpentis	11	39 40.14	— 0.20	—16.10	327 46 5.75	43.935	— 34.7	39.2	15 39	.....	.. ..	....
4	ε Serpentis	11	46 9.50	— 0.20	—16.08	325 48 6.48	45.006	— 37.4	38.8	15 45	.....	.. ..	....
5	Jupiter I, S	6	57 38.48	— 0.12	**—16.10**	301 20 6.08	43.718	—1 30.2	**39.1**	15 57 22.26	+ 1.56	—19 42 36.5	....
6	Jupiter II, N	5	57 41.60	— 0.12	**—16.10**	301 20 6.08	45.908	—1 30.2	**39.1**	15 57 25.38	— 1.56	—19 41 54.7	....
7	δ Ophiuchi	11	9 26.18	— 0.18	—16.09	317 36 6 75	42.702	— 50.3	39.2	16 9	.....	.. ..	....
8	α Scorpii	11	23 37.02	— 0.09	—16.12	294 50 5.90	44.816	—1 58.5	38.8	16 23	.....	.. ..	....
9	Uranus C, C	11	29 5.74	— 0.11	**—16.12**	299 16 5.98	47.099	—1 38.0	**39.1**	16 28 49.51	.....	—21 45 39.5	....
10	ζ Ophiuchi	11	31 59.29	— 0.15	—16.14	310 40 6.38	44.538	—1 4.2	39.6	16 31	.....	.. ..	....
11	θ Ophiuchi	11	16 12.72	— 0.10	—16.08	296 8 5.62	46.739	—1 52.1	38.7	17 15	.....	.. ..	....
12	b Ophiuchi	11	20 36.51	— 0.10	—16.19	296 58 6.28	43.400	—1 48.3	39.8	17 20	.....	.. ..	....
13	Groombridge 944 S. P.	5	30 12.86	+ 0.70	[—16.62]	55 50 7.28	47.069	+1 21.8	[39.8]	5 29	.....	.. ..	....
14	ω Draconis	5	37 51.76	— 0.47	[—16.13]	29 48 8.95	46.790	+ 31.9	[39.7]	17 37	.....	.. ..	....
15	Saturn I, S	5	1 14.94	— 0.11	**—16.15**	298 32 5.92	47.382	—1 41.5	**39.1**	18 0 58.68	+ 0.72	—22 29 37.6	....
16	Saturn II, N	6	1 16.37	— 0.11	**—16.15**	298 32 5.92	48.415	—1 41.5	**39.1**	18 1 0.11	— 0.71	—22 29 17.8	....
17	μ Sagittarii	11	8 7 75	— 0.11	—16.17	299 58 6.15	42.706	—1 35.9	39.0	18 7	.....	.. ..	....
18	η Serpentis	11	16 28.44	— 0.18	—16.14	318 6 7.62	45.406	— 49.7	38.7	18 16	.....	.. ..	....
	July 14, Br.												
19	ε Pegasi	11	39 36.48	— 0.17	—16.11	330 26 7.70	46.580	— 31.6	40.7	21 39	.....	.. ..	....
20	μ Capricorni	11	48 10.93	— 0.10	—16.21	307 0 7.52	48.000	—1 13.9	41.4	21 47	.....	.. ..	....
21	Moon II, N	11	1 16.68	— 0.12	**—16.15**	313 44 7.55	43.290	— 58.3	**41.1**	22 1 0.41	—68.58	— 7 18 13.6	....
22	θ Aquarii	11	11 53.49	— 0.12	—16.18	312 46 8.10	42.514	—1 0.4	41.4	22 11	.....	.. ..	....
23	γ Aquarii	11	16 49 41	— 0.14	—16.09	319 8 8.12	46.182	— 48.3	41.0	22 16	.....	.. ..	....
	July 15, B.												
24	λ Pegasi	11	42 2.44	— 0.27	—15.77	344 4 6.70	43.645	— 15.8	38.9	22 41	.....	.. ..	....
25	λ Aquarii....	11	47 43.39	— 0.18	—15.74	312 56 5.55	43.079	— 59.5	39.5	22 47	.....	.. ..	....
26	Moon II, N	11	57 27.74	— 0.20	**—15.78**	319 24 6.32	43.785	— 47.5	**39.3**	22 57 11.76	—68.00	— 1 37 52.8	....
27	φ Aquarii	11	9 28.05	— 0.19	—15.77	314 26 6.55	47.289	— 56.5	39.4	23 9	.....	.. ..	....
28	τ Pegasi	11	16 0.77	— 0.27	—15.82	344 12 6.35	47.419	— 15.6	39.3	23 15	.....	.. ..	....
	July 15, Ei.												
29	α Tauri	11	30 28.91	— 0.29	—15.68	337 20 7.08	43.718	— 22.6	38.4	4 30	.....	.. ..	....
30	ι Aurigæ	11	50 47.19	— 0.35	—15.81	354 2 5.20	42.531	— 5.6	37.2	4 50	.....	.. ..	....
31	ζ Aurigæ	11	55 47.72	— 0.38	—15.82	1 56 6.25	46.168	+ 1.9	37.4	4 55	.....	.. ..	....
32	β Eridani	11	3 13.36	— 0.20	—15.65	315 48 9.85	46.990	— 52.3	37.9	5 2	.....	.. ..	....
33	β Orionis	11	10 1.15	— 0.19	—15.66	312 42 5.95	47.218	— 58.2	37.7	5 9	.....	.. ..	....
34	γ Geminorum	11	32 13.78	— 0.29	—15.76	337 30 4.78	45.220	— 22.1	36.9	6 31	.....	.. ..	....
35	Venus II, N	11	46 10.37	— 0.29	**—15.73**	338 24 5.35	48.146	— 21.1	**37.1**	6 45 54.35	— 1.99	+17 23 58.5	....
	July 16, Ei.												
36	Sun I, N	11	41 15.37	— 0.30	**—15.72**	342 40 6.92	42.802	— 16.6	**36.9**	7 40 59.35	+67.90	+21 38 23.3	....
37	Sun II, S	11	43 31.16	— 0.30	**—15.72**	342 8 7.22	44.463	— 17.1	**36.9**	7 43 15.14	—67.89	+21 6 52.7	....
38	Mercury I, C	11	7 13.69	— 0.28	**—15.72**	334 38 4.95	44.671	— 25.0	**36.5**	9 6 57.69	+ 0.34	+13 36 48.0	....
39	α Lyncis	11	15 15.71	— 0.36	—15.82	355 50 4.52	43.582	— 3.8	36.1	9 14	.....	.. ..	....
40	α Hydræ	11	22 57.75	— 0.19	—15.71	312 48 4.60	44.685	— 57.0	36.7	9 22	.....	.. ..	....
41	θ Ursæ Majoris	5	26 28.06	— 0.44	[—15.85]	13 8 5.90	46.102	+ 12.4	[36.9]	9 26	.....	.. ..	....
42	ο Leonis	11	36 6.39	— 0.26	—15.63	331 22	......	....	....	9 35	.....	.. ..	....
43	ε Leonis	11	40 28.30	— 0.32	—15.72	345 14 5.00	47.634	— 13.9	36.4	9 40	.....	.. ..	....
44	ε Serpentis	11	46 9.01	— 0.27	—15.53	325 48 5.95	44.912	— 36.6	37.1	15 45	.....	.. ..	....
45	Jupiter I, N	5	57 17.86	— 0.14	**—15.58**	301 20 4.48	47.450	—1 28.3	**37.4**	15 57 2.14	+ 1.56	—19 41 22.8	....
46	Jupiter II, S	6	57 20.97	— 0.14	**—15.58**	301 20 4.48	45.270	—1 28.4	**37.4**	15 57 5.25	— 1.55	—19 42 5.0	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
14 10 20	29.91	86.0	84.7
11 13	29.90	85.0	84.2
15 35	29.88	77.5	75.9
16 15	29.88	76.0	74.4
16 38	29.88	75.5	73.8
17 10	29.88	74.5	72.9
17 44	29.88	74.0	72.2
18 14	29.89	73.0	71.5
21 41	29.88	69.9	68.4
22 21	29.88	69.1	67.7
15 22 37	29.85	74.3	72.1
23 21	29.845	73.2	70.9
4 28	29.90	83.0	84.4
5 8	29.90	86.5	87.7
6 28	29.91	90.0	91.9
6 56	29.91	91.0	92.9
16 7 44	29.90	92.6	95.0
9 4	29.90	95.0	97.1
9 44	29.89	97.5	97.5
15 42	29.85	87.0	85.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2.	Bisections at I, II.
5, 15, 45.	Bisections at I, VII.
6, 16, 46.	Bisections at II, VI.
13.	Bisections at d_3, d_2, d_1, b_3, b_2, b_1.
14.	Bisections at I, II, III, V.
21, 26.	Bisections at II, III, IV, V, VI.
24.	Bisections at I, VI, VII.
36.	Bisections at I, II, III.
37.	Bisections at V, VI, VII.
41.	Bisections at II, III, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′
5	+ 1.6	+ 20.9	...	+ 22.5
6	+ 1.6	— 20.9	...	— 19.3
9	+ 0.4	....	...	+ 0.4
15	+ 0.9	+ 9.9	...	+ 10.8
16	+ 0.9	— 9.9	...	— 9.0
21	+43 7.4	—16 22.7	...	+26 44.7
26	+38 46.1	—16 21.8	...	+22 24.3
35	+ 10.7	— 28.4	...	— 17.7
36	+ 2.6	—15 45.3	...	—15 42.7
37	+ 2.6	+15 45.3	...	+15 47.9
38	+ 5.6	....	— 1.2	+ 4.4
45	+ 1.6	— 21.1	...	— 19.5
46	+ 1.6	+ 21.1	...	+ 22.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Ophiuchi	11	9 25.72	— 0.23	—15.59	317 36 6.40	42.584	— 49.3	37.4	16 9	.....	.. ..	....
2	α Scorpii	11	23 36.47	— 0.10	—15.58	294 50 5.00	44.669	—1 56.2	37.5	16 23	.....	.. ..	....
3	Uranus C, C	10	28 52.28	— 0.13	**—15.57**	299 18 4.22	42.144	—1 36.1	**37.4**	16 28 36.58	.....	—21 45 13.0	....
4	ζ Ophiuchi	11	31 58.78	— 0.19	—15.60	310 40 4.92	44.445	—1 2.9	37.5	16 31	.....	.. ..	....
5	ι Piscium	11	35 7.41	— 0.18	—15.45	326 6 6.35	47.109	— 36.8	38.2	23 34	.....	.. ..	....
6	ι^1 Aquarii	5	39 19.87	0.06	—15.54	302 12 5.18	46.948	—1 26.7	37.1	23 39	.....	.. ..	....
7	Moon II, N	11	53 2.10	— 0.17	**—15.50**	325 6 5.98	46.133	— 38.2	**37.5**	23 52 46.43	—67.92	+ 4 5 3.0	....
8	33 Piscium	11	0 31.84	0.12	—15.49	314 46 4.92	44.960	55.2	38.0	0 0	.....	.. ..	....
9	α Andromedæ	10	3 32.27	— 0.28	—15.54	349 34 4.88	42.928	— 10.1	36.7	0 3	.....	.. ..	....
10	6 B. Ursæ Minoris s. p.	9	14 11.26	+ 4.94	[14.80]	52 44 7.12	45.559	+1 12.4	[38.4]	12 14	.....	.. ..	....
11	α Cassiopeiæ	11	35 9.59	— 0.46	[—15.46]	17 0 6.28	44.301	+ 16.9	[37.3]	0 34	.....	.. ..	....
12	α Ursæ Minoris	8	23 31.89	— 7.65	[—16.46]	49 46 7.82	44.797	+1 5.0	[37.9]	1 23	.....	.. ..	....
13	υ Andromedæ	11	31 14.63	— 0.35	[—15.48]	1 56 5.78	42.044	+ 1.9	[38.4]	1 30	.....	.. ..	....
	July 16, Br.												
14	β Orionis	11	10 0.93	— 0.15	—15.46	312 42 6.30	47.259	— 58.2	38.6	5 9	.....	.. ..	....
15	β Tauri	11	20 16.15	— 0.33	15.55	349 32 6.05	45.568	— 9.9	37.5	5 20	.....	.. ..	....
16	δ Orionis	11	27 11.06	0.19	—15.47	320 40 5.12	42.140	— 44.0	38.2	5 26	.....	.. ..	....
17	ε Orionis	11	31 25.47	— 0.18	—15.43	319 46 6.20	43.620	— 45.4	38.0	5 31	.....	.. ..	....
18	α Orionis	11	50 2.73	— 0.23	—15.39	328 24 5.45	46.678	— 33.0	37.6	5 49	.....	.. ..	....
19	Venus II, N	11	44 7.03	— 0.28	**—15.44**	338 20 5.72	46.266	— 21.2	**37.6**	6 43 51.31	— 1.97	+17 19 22.1	....
	July 17, Br.												
20	Sun I, N	11	45 17.11	— 0.32	**—15.42**	342 30 5.88	42.915	— 16.8	**37.4**	7 45 1.37	+67.85	+21 28 23.8	....
21	Sun II, S	11	47 32.81	— 0.32	**—15.42**	341 58 4.68	44.588	— 17.3	**37.4**	7 47 17.07	—67.85	+20 56 51.8	....
22	Mercury I, C	11	7 20.68	— 0.29	**15.40**	334 24 4.85	41.105	— 25.4	**37.0**	9 7 4.99	+ 0.35	+13 21 38.3	....
23	α Lyncis	..	.. ..	....	.....	355 50 4.50	43.595	3.8	36.4	9 14	.....	.. ..	....
24	α Hydræ	11	22 57.45	— 0.18	—15.42	312 48 5.25	44.649	— 57.1	36.4	9 22	.....	.. ..	....
25	ε Leonis	11	40 28.07	— 0.36	—15.45	345 14 5.42	47.645	— 13.9	37.2	9 40	.....	.. ..	....
26	α Leonis	11	3 20.10	0.30	—15.27	333 28 4.80	45.959	— 26.4	37.1	10 3	.....	.. ..	....
27	γ^1 Leonis	11	14 45.10	— 0.34	—15.39	341 22 5.30	43.951	— 17.8	37.0	10 14	.....	.. ..	....
28	θ Piscium	11	23 12.37	— 0.19	—15.02	326 52 5.65	43.128	— 35.7	38.3	23 22	.....	.. ..	....
29	ι Piscium	11	35 6.99	— 0.18	—15.00	326 6 6.40	47.145	— 36.8	38.8	23 34	.....	.. ..	....
30	ω Piscium	11	54 29.06	0.19	—15.00	327 20 6.45	45.501	35.1	37.7	23 54	.....	.. ..	....
31	6 B. Ursæ Minoris s. p.	8	14 10.61	+ 5.07	[—14.98]	52 44 8.38	45.518	+1 12.4	[38.8]	12 14	.....	.. ..	....
32	Moon II, N	11	48 48.29	— 0.20	**—15.02**	330 30 6.48	45.555	— 31.1	**38.3**	0 48 33.07	—68.32	+ 9 28 58.7	....
33	β Andromedæ	11	4 26.63	— 0.34	—15.13	356 6 5.68	45.919	— 3.7	37.4	1 4	.....	.. ..	....
34	α Ursæ Minoris	8	23 32.96	— 7.90	[—16.25]	49 46 8.75	44.765	+1 5.1	[38.2]	1 23	.....	.. ..	....
35	ο Piscium	11	40 24.65	— 0.20	—14.93	329 40 6.45	47.334	— 32.1	39.1	1 40	.....	.. ..	....
36	β Arietis	11	49 25.09	— 0.26	—15.08	341 20 6.75	46.013	— 18.5	38.3	1 49	.....	.. ..	....
	July 17, Ei.												
37	α Tauri	11	30 28.07	— 0.27	—14.81	337 20 6.52	43.689	— 22.5	37.2	4 30	.....	.. ..	....
38	ι Aurigæ	11	50 46.39	— 0.36	—14.94	354 2 5.12	42.496	— 5.6	36.5	4 50	.....	.. ..	....
39	β Eridani	11	3 12.53	— 0.16	—14.81	315 48 5.92	47.154	— 52.2	36.9	5 2	.....	.. ..	....
40	β Orionis	11	10 0.31	— 0.15	—14.81	312 42 5.92	47.172	— 58.1	36.6	5 9	.....	.. ..	....
41	γ Geminorum	11	32 12.88	— 0.30	—14.75	337 30 5.28	45.152	— 22.1	36.2	6 31	.....	.. ..	....
42	Venus II, N	11	42 11.57	— 0.31	**—14.76**	338 16 5.70	45.661	— 21.2	**36.7**	6 41 56.50	— 1.95	+17 15 11.3	....
	July 18, Ei.												
43	Sun I, S	11	49 17.91	— 0.36	**—14.71**	341 48 5.98	43.238	— 17.4	**36.7**	7 49 2.84	+67.77	+20 46 30.1	....
44	Sun N	..	.. ..	....	.....	342 20 5.00	41.888	— 16.8	**36.7**	.. ..	.....	+21 18 1.8	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
16 16 39	29.86	84.5	83.2
23 33	29.87	79.0	77.7
0 43	29.87	77.5	76.2
1 36	29.87	78.5	77.3
5 13	29.92	87.5	87.8
5 37	29.92	88.9	89.2
5 53	29.92	89.8	90.0
6 48	29.92	91.5	91.9
17 7 48	29.92	93.2	93.7
9 1	29.90	95.0	95.7
9 26	29.89	96.0	96.0
9 45	29.89	96.6	96.6
10 18	29.87	96.8	96.7
23 26	29.85	79.6	77.9
23 58	29.86	78.9	77.0
0 51	29.87	77.8	76.1
1 44	29.88	78.1	77.2
1 53	29.885	78.6	77.9
4 28	29.90	85.5	85.7
5 17	29.90	88.0	88.9
6 29	29.90	92.0	92.0
6 47	29.90	93.0	93.0
18 7 52	29.90	95.2	96.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3. Bisections at II, III, VI, VII.
6. Bisections at I, II.
7. Bisections at III, IV, V.
9. Bisections at II, III, VI.
10. Bisections at c_5, c_4, c_3, c_2, c_1.
12, 34. Bisections at c_1, c_2, c_3, c_4, c_5.
17. Bisections at VI, VII.
20, 43. Bisections at I, II, III.
21, 44. Bisections at V, VI, VII.
22, 36. Bisections at II, VI, VII.
31. Bisections at c_4, c_3, c_2, c_1.
32. Bisections at II, III, IV, V, VI.
10, 12, 34. Microscopes read before and after bisections.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 0.4	....	...	+ 0.4
7	+33 54.2	—16 18.1	...	+17 36.1
19	+ 10.7	— 28.2	...	— 17.5
20	+ 2.6	—15 46.0	...	—15 43.4
21	+ 2.7	+15 45.9	...	+15 48.6
22	+ 5.7	....	— 1.3	+ 4.4
32	+28 57.7	—16 12.2	...	+12 45.5
42	+ 10.4	— 27.9	...	— 17.5
43	+ 2.7	+15 45.8	...	+15 48.5
44	+ 2.6	—15 45.8	...	—15 43.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Hydræ	11	22 56.75	— 0.26	—14.64	312 48 5.25	44.656	— 57.0	36.5	9 22	.....	.. ..	....
2	β Leonis	11	44 14.52	0.39	—14.54	336 8 4.95	47.412	— 23.4	36.8	11 43	.....	.. ..	....
	July 18, B.												
3	β Orionis	11	9 59.66	— 0.12	—14.17	312 42 6.60	47.219	58.6	37.4	5 9	.....	.. ..	....
4	β Tauri	7	20 14.87	— 0.30	—14.25	349 32 5.50	45.620	— 10.0	36.2	5 20	.....	.. ..	....
5	ε Orionis	..	.. ....	....	.....	319 46 6.60	43.455	— 45.7	36.7	5 31	.....	.. ..	....
6	α Orionis	11	50 1.43	— 0.20	14.08	328 24	......	....	....	5 49	.....	.. ..	....
7	θ Aurigæ	8	53 10.85	— 0.34	—14.26	358 14 5.18	41.690	— 1.6	37.8	5 52	.....	.. ..	....
	July 19, B.												
8	Sun I, N	10	53 18.29	— 0.26	**—14.10**	342 8 6.35	45.930	— 17.3	**36.7**	7 53 3.93	+67.72	+21 7 22.4	....
9	Sun II	7	55 33.73	— 0.26	**—14.10**	341 52	......	....	....	7 55 19.37	—67.72	.. ..	....
10	Mercury C, C	8	6 38.13	— 0.22	**—14.05**	333 58 4.90	43.432	— 26.2	**36.7**	9 6 23.86	+ 0.19	+12 56 22.9	....
11	α Hydræ	11	22 56.02	0.12	—14.05	312 48 4.58	44.666	— 57.8	35.8	9 22	.....	.. ..	....
12	θ Ursæ Majoris	10	26 26.49	— 0.44	[—14.29]	13 8 5.62	46.159	+ 12.6	[38.1]	9 26	.....	.. ..	....
13	α Leonis	11	3 18.71	— 0.22	—13.96	333 28 5.30	45.908	— 26.6	36.4	10 3	.....	.. ..	....
14	γ¹ Leonis	11	14 43.67	0.26	—14.04	341 22 5.42	43.926	— 18.0	36.5	10 14	.....	.. ..	....
15	α Ursæ Majoris	11	57 49.42	— 0.54	[—14.20]	23 18 6.88	44.102	+ 23.1	[38.2]	10 57	.....	.. ..	....
16	δ Leonis	11	9 3.61	— 0.26	—13.99	342 6 5.52	42.184	— 17.2	36.5	11 8	.....	.. ..	...
	July 19, Br.												
17	β Orionis	11	9 59.35	— 0.09	—13.87	312 42 5.88	47.338	— 58.8	38.0	5 9	.....	.. ..	....
18	ε Orionis	9	31 23.76	— 0.13	13.71	319 46 5.82	43.596	45.9	37.8	5 31	.....	.. ..	....
19	κ Orionis	11	43 16.09	— 0.09	—13.83	311 20 4.90	43.351	—1 1.6	37.9	5 43	.....	.. ..	....
20	α Orionis	11	50 1.01	— 0.17	—13.67	328 24 4.32	46.786	— 33.3	38.0	5 49	.....	.. ..	....
21	Venus II, N	11	38 46.76	0.21	**—13.76**	338 10 5.22	42.608	— 21.7	**37.7**	6 38 32.79	1.91	+17 8 10.9	....
	July 20, Br.												
22	Sun I, S....	11	57 18.30	— 0.24	**—13.75**	341 26 5.68	43.957	18.0	**37.5**	7 57 4.31	+67.68	+20 24 42.1	....
23	Sun II, N	11	59 33.66	— 0.24	**—13.75**	341 58 6.95	42.617	— 17.5	**37.5**	7 59 19.67	—67.68	+20 56 16.2	....
24	Mercury I, C	9	5 49.10	— 0.22	**—13.74**	333 48 4.55	43.678	— 26.4	**37.3**	9 5 35.14	+ 0.36	+12 46 26.4	....
25	α Lyncis	11	15 13.71	— 0.34	—13.83	355 50 4.02	43.618	— 3.9	36.6	9 14	.....	.. ..	....
26	α Hydræ	11	22 55.69	0.12	13.72	312 48 4.68	44.789	— 57.8	37.5	9 22	.....	.. ..	....
27	ε Leonis	11	40 26.29	— 0.29	—13.74	345 14 5.20	47.691	— 14.1	37.7	9 40	.....	.. ..	....
28	α Leonis	11	3 18.40	— 0.24	—13.63	333 28 4.42	46.002	— 26.7	37.2	10 3	.....	.. ..	....
29	f Tauri	11	25 36.92	0.22	—13.23	333 38 5.18	41.639	— 27.1	38.1	3 25	.....	.. ..	....
30	Moon II, N......	11	42 30.57	— 0.27	**—13.33**	341 44 5.05	43.880	18.0	**37.9**	3 42 16.97	—70.39	+20 42 38.6	....
31	ζ Persei	11	48 7.00	0.31	—13.40	352 36 4.75	45.108	— 7.0	37.2	3 47	.....	.. ..	....
32	γ Eridani	11	53 36.99	— 0.09	—13.35	307 14 4.42	46.766	—1 11.6	38.2	3 53	.....	.. ..	....
33	A¹ Tauri	11	59 2.91	— 0.26	—13.32	342 50 4.85	43.655	— 16.8	38.2	3 58	.....	.. ..	....
	July 20, B.												
34	β Orionis	11	9 58.63	— 0.16	—13.05	312 42 7.32	47.186	58.5	37.3	5 9	.....	.. ..	....
35	β Tauri	11	20 13.82	— 0.36	—13.09	349 32 4.32	45.592	— 9.9	36.2	5 20	.....	.. ..	....
36	δ Orionis	11	27 8.75	— 0.21	—13.06	320 40 4.78	42.181	— 44.2	37.8	5 26	.....	.. ..	....
37	ε Orionis	11	31 23.18	— 0.20	—13.04	319 46 4.95	43.581	— 45.7	36.7	5 31	.....	.. ..	....
38	Venus II, N	11	37 18.11	— 0.30	**—13.03**	338 6 5.18	46.149	— 21.6	**36.9**	6 37 4.78	1.89	+17 5 19.6	....
	July 21, B.												
39	Sun I, S..........	11	1 17.69	— 0.32	**—12.99**	341 14 5.18	45.848	— 18.2	**36.9**	8 1 4.38	+67.49	+20 13 18.3	....
40	Sun II, N	11	3 32.66	— 0.32	**—12.99**	341 46 7.92	44.352	— 17.7	**36.9**	8 3 19.35	—67.48	+20 44 50.7	....
41	Mercury C, C	11	4 41.87	— 0.28	**12.96**	333 40 5.40	43.750	26.5	**36.9**	9 4 28.63	+ 0.19	+12 38 28.9	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
18	9	19	29.87	97.0	96.8
	10	22	29.86	96.8	96.1
	11	46	29.85	95.0	95.3
	5	13	29.95	87.0	85.1
	5	57	29.95	87.3	86.7
19	7	56	29.94	91.5	89.9
	9	10	29.92	90.5	88.9
	10	6	29.895	93.0	92.4
	10	20	29.89	94.2	92.7
	11	13	29.85	92.8	92.3
	5	14	29.87	83.0	82.2
	6	2	29.87	85.0	83.7
	6	43	29.87	86.3	84.4
20	8	0	29.87	88.3	87.7
	9	1	29.85	89.5	88.9
	9	26	29.845	90.3	89.1
	10	7	29.84	91.7	90.2
	3	22	29.87	80.0	78.2
	4	3	29.88	82.5	81.0
	5	13	29.89	85.8	85.1
	5	35	29.89	86.3	85.7
	6	40	29.90	87.8	86.7
21	8	4	29.91	89.5	88.6
	9	0	29.905	90.8	90.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4. Bisections at VI, VII.
5. Bisections at I, II, VII.
7, 8. Bisections at I, II.
11. Bisections at I, II, VI.
17. Bisections at II, VI, VII.
22, 39. Bisections at I, II, III.
23, 40. Bisections at V, VI, VII.
30. Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
8	+ 2.6	15 46.6	...	15 44.0
10	+ 6.0	....	— 1.5	+ 4.5
21	+ 10.2	— 27.4	...	— 17.2
22	+ 2.7	+15 47.0	...	+15 49.7
23	+ 2.7	—15 47.1	...	—15 44.4
24	+ 6.1	....	— 1.5	+ 4.6
30	+17 52.9	—15 48.2	...	+ 2 4.7
38	+ 10.3	— 27.0	...	16.7
39	+ 2.8	+15 46.2	...	+15 49.0
40	+ 2.7	—15 46.1	...	—15 43.4
41	+ 6.2	....	— 1.7	+ 4.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Leonis	11	40 25.58	− 0.33	−12.99	345 14 6.52	47.566	− 14.1	36.7	9 40	.....	.. ..	....
2	α Leonis	11	3 17.65	− 0.27	−12.85	333 28 4.55	45.981	− 26.7	37.0	10 3	.....	.. ..	....
3	46 Leonis Minoris	11	47 58.37	− 0.39	−13.01	355 46 4.32	44.661	− 3.9	36.7	10 47	.....	.. ..	....
4	α Ursæ Majoris	11	57 48.22	− 0.64	[−12.94]	23 18 6.72	44.076	+ 23.1	[38.0]	10 57	.....	.. ..	....
5	δ Leonis	11	9 2.50	− 0.32	−12.83	342 6 5.20	42.206	− 17.2	36.6	11 8	.....	.. ..	....
6	δ Ursæ Minoris	6	4 50.00	− 2.20	[−11.99]	47 36 6.88	47.182	+ 59.9	[38.9]	18 4	.....	.. ..	....
7	η Serpentis	11	16 25.09	− 0.14	[−12.82]	318 6 4.80	45.490	− 48.8	[37.7]	18 16	.....	.. ..	....
8	α Lyræ	8	33 49.80	− 0.32	[−12.85]	359 42	......	....	....	18 33	.....	.. ..	....
9	51 H. Cephei S. P.	10	53 53.28	+ 2.00	[−12.61]	53 48 7.00	42.839	+1 14.7	[39.9]	6 53	.....	.. ..	....
	July 23, Br.												
10	β Orionis	11	9 57.45	− 0.10	−11.86	312 42 5.95	47.371	− 59.6	37.9	5 9	.....	.. ..	....
11	α Orionis	11	49 59.15	− 0.16	−11.73	328 24 4.98	46.821	− 33.6	38.7	5 49	.....	.. ..	....
12	Venus II, N	11	33 50.65	− 0.20	**−11.81**	338 0 5.52	46.455	− 22.0	**37.8**	6 33 38.64	− 1.82	+16 59 22.9	....
13	α² Geminorum	8	28 27.24	− 0.26	−11.91	353 8 5.18	42.330	− 6.5	37.0	7 28	.....	.. ..	....
14	α Canis Minoris	11	34 17.53	− 0.17	−11.75	326 30 4.72	45.188	− 35.9	38.6	7 34	.....	.. ..	....
	July 24, Br.												
15	Sun I, N	11	13 12.82	− 0.23	**−11.78**	341 10 4.90	43.503	− 18.5	**37.8**	8 13 0.81	+67.29	+20 8 31.9	....
16	Sun II, S	11	15 27.39	− 0.23	**−11.78**	340 38 5.00	45.030	− 19.0	**37.8**	8 15 15.38	−67.28	+19 36 58.6	....
17	α Hydræ	11	22 53.80	− 0.13	−11.81	312 48 5.58	44.793	− 58.2	38.0	9 22	.....	.. ..	....
18	α Leonis	11	3 16.40	− 0.22	−11.65	333 28 5.78	45.965	− 26.9	37.7	10 3	.....	.. ..	....
19	γ¹ Leonis	5	14 41.35	− 0.25	−11.74	341 22 5.38	43.882	− 18.2	37.3	10 14	.....	.. ..	....
20	ρ Leonis	5	27 46.44	− 0.22	−11.67	330 50	......	....	....	10 27	.....	.. ..	....
21	46 Leonis Minoris	11	47 57.13	− 0.31	−11.87	355 46 4.22	44.658	− 3.9	36.9	10 47	.....	.. ..	....
	July 24, Ei.												
22	θ Herculis	11	53 4.65	− 0.33	−11.55	358 16 5.25	47.361	− 1.6	37.8	17 52	.....	.. ..	....
23	Saturn I, N	6	58 32.27	− 0.06	**−11.58**	298 32 3.25	44.600	−1 40.6	**38.2**	17 58 20.63	+ 0.63	− 22 30 32.3	....
24	Saturn II, S	4	58 33.52	− 0.06	**−11.58**	298 32 3.25	43.608	−1 40.6	**38.2**	17 58 21.88	− 0.62	−22 30 51.4	....
25	δ Ursæ Minoris	10	4 49.20	− 1.98	[−12.26]	47 36	......	....	....	18 4	.....	.. ..	....
26	η Serpentis	11	16 23.88	− 0.17	−11.59	318 6 4.65	45.552	− 49.3	38.0	18 16	.....	.. ..	....
27	λ Sagittarii	11	22 4.30	− 0.05	−11.60	295 34 3.80	45.309	−1 54.1	38.8	18 21	.....	.. ..	....
28	1 Aquilæ	11	30 1.82	− 0.10	−11.59	312 42 4.48	48.135	− 59.4	38.1	18 29	.....	.. ..	....
29	51 H. Cephei S. P.	9	53 53.83	+ 1.67	[−12.03]	53 48 5.75	42.872	+1 15.2	[38.7]	6 53	.....	.. ..	....
	July 27, Ei.												
30	α Serpentis	11	39 34.67	− 0.19	−10.79	327 46 4.22	44.035	− 34.8	38.3	15 39	.....	.. ..	....
31	ε Serpentis	11	46 4.07	− 0.19	−10.79	325 48 4.52	45.104	− 37.5	37.6	15 45	.....	.. ..	....
32	Jupiter I, S	6	56 16.13	− 0.11	**−10.78**	301 20 3.38	46.228	−1 30.4	**37.9**	15 56 5.24	+ 1.46	−19 41 48.5	....
33	Jupiter II, N	5	56 19.04	− 0.11	**−10.78**	301 20 3.38	48.492	−1 30.3	**37.9**	15 56 8.15	− 1.45	−19 41 8.0	....
34	β¹ Scorpii	11	59 52.09	− 0.11	−10.87	301 30 3.18	45.594	−1 29.8	38.0	15 59	.....	.. ..	....
35	α Scorpii	11	23 31.51	− 0.09	−10.72	294 50 3.75	44.875	−1 58.8	37.7	16 23	.....	.. ..	....
36	Uranus C, C	11	27 48.48	− 0.11	**−10.78**	299 20 2.88	42.395	−1 38.2	**37.9**	16 27 37.59	.....	−21 43 11.8	....
37	ζ Ophiuchi	11	31 53.80	− 0.14	−10.75	310 40 3.00	44.661	−1 4.4	37.7	16 31	.....	.. ..	....
38	μ Herculis	11	42 47.10	− 0.24	−10.83	348 48	......	....	....	17 42	.....	.. ..	....
39	δ Ursæ Minoris	6	4 46.97	− 1.02	[−11.82]	47 36	......	....	....	18 4	.....	.. ..	....
	July 27, Br.												
40	β Orionis	11	9 56.46	− 0.09	−10.78	312 42 5.00	47.435	− 59.8	37.4	5 9	.....	.. ..	....
41	β Tauri	11	20 11.64	− 0.20	−10.87	349 32 5.02	45.625	− 10.2	37.2	5 20	.....	.. ..	....
42	δ Orionis	10	27 6.57	− 0.12	−10.80	320 40 4.95	42.290	− 45.2	38.1	5 26	.....	.. ..	....
43	ε Orionis	10	31 21.03	− 0.12	−10.80	319 46 5.25	43.812	− 46.6	37.9	5 31	.....	.. ..	....
44	α Orionis	11	49 58.18	− 0.14	−10.69	328 24 5.08	46.818	− 33.8	38.2	5 49	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
21 9 48	29.90	92.8	90.5
10 50	29.89	92.5	91.1
11 13	29.89	92.5	91.7
18 13	29.94	82.5	81.9
19 1	29.95	82.0	81.2
23 5 14	29.91	77.9	75.9
5 55	29.905	81.0	79.1
6 45	29.895	81.6	79.9
7 24	29.89	82.9	82.5
7 43	29.885	83.2	82.9
24 8 15	29.885	84.2	83.1
9 26	29.87	86.4	85.2
10 7	29.86	86.9	86.1
10 19	29.855	87.5	86.2
10 52	29.84	86.8	86.5
17 57	29.79	77.0	74.8
19 1	29.78	76.0	74.7
27 15 43	29.91	76.0	75.0
16 36	29.93	74.0	72.9
5 6	29.99	75.5	75.5
5 39	30.00	77.4	76.7
5 55	30.00	78.6	78.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

6.	Bisections at c_2, c_3, c_4, c_5.
9, 29.	Bisections at c_5, c_4, c_3, c_2, c_1.
12, 33, 43.	Bisections at VI, VII.
15.	Bisections at I, II, III.
16.	Bisections at V, VI, VII.
17.	Bisections at I, II, VII.
19, 32.	Bisections at I, II.
23.	Bisections at II, VII.
24.	Bisections at III, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
12	+ 10.0	− 26.0	...	− 16.0
15	+ 2.8	−15 46.6	...	−15 43.8
16	+ 2.9	+15 46.6	...	+15 49.5
23	+ 0.9	− 9.5	...	− 8.6
24	+ 0.9	+ 9.6	...	+ 10.5
32	+ 1.5	+ 20.2	...	+ 21.7
33	+ 1.5	− 20.3	...	− 18.8
36	+ 0.4	.....	...	+ 0.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Venus II, N......	11	31 33.85	− 0.17	**−10.81**	337 58 6.40	45.516	− 22.2	**37.6**	6 31 22.87	− 1.72	+16 57 7.3	....
	July 28, Br.												
2	Sun I, S.........	11	28 59.01	− 0.20	**−10.86**	339 44 9.22	47.710	− 20.1	**37.3**	8 28 47.95	+66.99	+18 43 55.9	....
3	Sun II, N.........	11	31 13.00	− 0.20	**−10.86**	340 16 8.10	46.598	− 19.5	**37.3**	8 31 1.94	−67.00	+19 15 31.8	....
4	α Hydræ..........	11	22 52.86	− 0.12	−10.86	312 48 5.30	44.868	− 58.7	37.7	9 22	.....	.. ..	....
5	ε Leonis..........	11	40 23.45	− 0.23	−10.94	345 14 5.50	47.599	− 14.3	36.6	9 40	.....	.. ..	....
6	μ Leonis..........	11	47 17.52	− 0.24	−10.95	347 30 4.78	43.162	− 12.0	36.9	9 47	.....	.. ..	....
7	Moon I..........	9	1 19.90	− 0.17	**−10.89**	327 14	......	....	....	10 1 8.84	+61.90	.. ..	....
8	γ^1 Leonis..........	11	14 40.36	− 0.22	−10.79	341 22 5.68	43.939	− 18.3	37.1	10 14	.....	.. ..	....
9	46 Leonis Minoris...	11	47 56.11	− 0.28	−10.91	355 46 5.18	44.608	− 4.0	36.8	10 47	.....	.. ..	....
	July 30, Br.												
10	κ Orionis..........	8	43 13.00	− 0.13	−10.45	311 20 5.50	43.562	−1 2.2	38.5	5 43	.....	.. ..	....
11	α Orionis..........	11	49 57.95	− 0.20	−10.33	328 24 4.85	46.800	− 33.7	37.4	5 49	.....	.. ..	....
12	μ Geminorum.....	8	17 7.48	− 0.26	−10.44	343 34 3.90	47.544	− 16.1	37.7	6 16	.....	.. ..	....
13	Venus II, N......	11	31 34.58	− 0.24	**−10.44**	338 0 6.42	45.382	− 22.0	**37.4**	6 31 23.90	− 1.64	+16 59 5.2	....
14	α^2 Geminorum.....	8	28 26.05	− 0.29	−10.56	353 8 5.92	42.246	− 6.5	36.8	7 28	.....	.. ..	....
	July 31, Br.												
15	Sun I, N.........	11	40 42.86	− 0.24	**−10.44**	339 34 4.70	43.220	− 20.1	**37.4**	8 40 32.18	+66.65	+18 32 25.4	....
16	Sun II, S.......	11	42 56.15	− 0.24	**−10.44**	339 2 4.52	44.725	− 20.7	**37.4**	8 42 45.47	−66.64	+18 0 51.0	....
17	α Leonis..........	11	3 15.10	− 0.22	−10.35	333 28 4.38	46.009	− 26.9	37.1	10 3	.....	.. ..	....
18	δ Leonis..........	11	8 59.97	− 0.25	−10.43	342 6 6.28	42.168	− 17.4	37.3	11 8	.....	.. ..	....
19	β Leonis..........	11	44 10.07	− 0.23	−10.35	336 8 5.95	47.426	− 23.8	37.7	11 43	.....	.. ..	....
20	γ Corvi..........	11	10 52.46	0.09	−10.48	304 2 4.75	46.571	−1 19.3	36.9	12 10	.....	.. ..	....
21	Moon I..........	11	18 1.62	− 0.14	**−10.42**	313 28	......	. ..	....	12 17 51.06	+61.43	.. ..	....
22	β Corvi..........	11	29 20.84	− 0.06	−10.51	298 12 5.90	43.032	−1 39.7	37.3	12 29	.....	.. ..	....
23	μ Herculis.........	11	42 46.56	− 0.27	−10.30	348 48 4.60	44.529	− 10.8	[38.8]	17 42	.....	.. ..	....
24	θ Herculis.........	11	53 3.30	− 0.30	−10.37	358 16 4.25	47.536	− 1.6	[38.6]	17 52	.....	.. ..	....
25	δ Ursæ Minoris....	8	4 44.54	− 1.52	[− 9.83]	47 36 7.20	47.349	+1 0.1	[40.2]	18 4	.....	.. ..	....
26	β Lyræ..........	11	46 37.45	− 0.28	−10.38	354 16 4.55	44.570	− 5.4	[38.5]	18 46	.....	.. ..	....
27	51 H. Cephei s. p...	8	53 55.78	+ 1.16	[−11.67]	53 48	......	....	....	6 53	.....	.. ..	....
28	ι Lyræ..........	10	3 58.23	− 0.29	−10.36	356 58 3.12	44.020	− 2.9	[38.5]	19 3	.....	.. ..	....
	July 31, B.												
29	μ Geminorum.....	11	17 7.19	− 0.26	−10.13	343 34 5.42	47.451	− 16.0	37.5	6 16	.....	.. ..	....
30	Venus II, N.....	11	31 53.59	− 0.24	**−10.13**	338 0 5.02	49.294	− 21.9	**37.1**	6 31 43.22	− 1.61	+17 0 19.6	....
31	ε Geminorum.....	11	37 59.35	− 0.28	−10.16	346 14 4.85	46.965	− 13.3	36.9	6 37	.....	.. ..	....
32	α Canis Minoris....	11	34 15.98	− 0.21	−10.05	326 30 4.48	45.152	− 35.9	37.1	7 34	.....	.. ..	....
33	β Geminorum.....	11	39 24.19	− 0.31	−10.11	349 16 4.88	47.462	− 10.2	37.0	7 39	.....	.. ..	....
	August 1, B.												
34	Sun I, N.........	11	44 35.95	− 0.28	**−10.04**	339 18 5.32	46.507	− 20.4	**37.5**	8 44 25.63	+66.55	+18 17 28.3	....
35	Sun II, S........	11	46 49.05	− 0.28	**−10.04**	338 46 5.10	48.070	− 21.0	**37.5**	8 46 38.73	−66.55	+17 45 55.6	....
36	α Hydræ..........	11	22 52.07	− 0.17	−10.01	312 48 5.92	44.861	− 58.2	38.3	9 22	.....	.. ..	....
37	ε Leonis..........	11	40 22.65	− 0.33	−10.03	345 14 5.40	47.629	− 14.2	37.4	9 40	.....	.. ..	....
38	α Leonis..........	11	3 14.71	− 0.28	− 9.90	333 28 4.80	46.024	− 26.9	37.8	10 3	.....	.. ..	....
39	γ^1 Leonis..........	11	14 39.72	− 0.32	−10.05	341 22 4.68	43.998	− 18.1	37.7	10 14	.....	.. ..	....
40	α Canum Venat....	11	51 33.30	− 0.30	−10.20	359 52 3.75	45.588	− 0.1	37.1	12 51	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
27 6 36	30.01	79.9	79.4
28 8 31	30.02	82.8	83.0
9 26	29.995	83.2	83.4
9 51	29.99	83.9	83.2
10 18	29.985	85.0	83.5
10 52	29.98	85.7	83.7
30 5 41	29.88	78.9	77.5
6 21	29.89	80.9	79.1
6 40	29.895	81.9	80.9
7 34	29.895	83.8	82.7
31 8 43	29.89	85.9	84.8
10 6	29.86	87.0	86.5
11 12	29.87	88.8	86.9
11 48	29.86	87.9	87.0
12 39	29.86	88.2	88.5
17 36	29.84	80.0	78.7
18 10	29.835	79.2	78.0
19 10	29.84	77.9	76.4
6 12	29.85	81.1	80.1
6 50	29.85	82.8	82.4
7 26	29.85	83.2	82.1
7 45	29.84	83.6	82.9
1 8 47	29.845	84.8	84.0
9 30	29.84	85.0	84.9
10 18	29.83	86.7	85.9
12 47	29.82	85.8	85.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 34.	Bisections at I, II, III.
3.	Bisections at V, VI, VII.
9.	Bisections at I, VI, VII.
10, 28.	Bisections at VI, VII.
15.	Bisection at I.
16, 35.	Bisections at V, VII.
25.	Bisections at c_1, c_2, c_3, c_4, c_5.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 9.4	− 24.7	...	− 15.3
2	+ 3.0	+15 47.9	...	+15 50.9
3	+ 2.9	−15 47.9	...	−15 45.0
13	+ 9.0	− 23.6	...	− 14.6
15	+ 3.0	−15 47.2	...	−15 44.2
16	+ 3.0	+15 47.2	...	+15 50.2
30	+ 8.9	− 23.3	...	− 14.4
34	+ 3.0	−15 46.3	...	−15 43.3
35	+ 3.1	+15 46.3	...	+15 49.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Virginis	11	57 24.35	− 0.18	−10.01	332 30 5.12	47.545	− 28.0	37.7	12 57	.....	.. ..	....
2	Moon I, N.	11	4 18.85	− 0.07	**−10.09**	309 26 5.08	46.847	−1 5.4	**37.3**	13 4 8.69	+62.39	−11 35 11.1	....
3	α Virginis	11	20 8.17	− 0.08	−10.08	310 24 4.65	42.304	−1 3.3	37.2	13 19	.....	.. ..	....
4	ζ Virginis	11	29 48.53	− 0.13	−10.08	320 56 3.95	45.559	− 43.7	37.3	13 29	.....	.. ..	....
	August 1, Br.												
5	κ Orionis	11	43 12.56	− 0.10	−10.00	311 20 7.22	43.487	−1 3.2	38.5	5 43	.....	.. ..	....
6	α Orionis	11	49 57.46	− 0.15	− 9.85	328 24 7.00	46.780	− 34.2	38.6	5 49	.....	.. ..	...
7	μ Geminorum	10	17 7.05	− 0.19	−10.04	343 34 7.52	47.395	− 16.3	37.6	6 16	.....	.. ..	....
8	Venus II, N.	11	32 21.92	− 0.18	**−10.00**	338 4 7.25	41.418	− 22.3	**37.6**	6 32 11.74	− 1.59	+17 1 49.8	....
9	ε Geminorum	11	37 59.23	− 0.20	−10.10	346 14 4.95	46.935	− 13.5	36.2	6 37	.....	.. ..	....
10	α^2 Geminorum	11	28 25.48	− 0.22	−10.03	353 8 5.98	42.301	− 6.6	37.9	7 28	.....	.. ..	....
	August 2, Br.												
11	Sun I, S.	10	48 28.39	− 0.18	**−10.01**	338 32 6.75	43.788	− 21.6	**37.6**	8 48 18.20	+66.60	+17 30 36.2	....
12	Sun II, N.	11	50 41.59	− 0.18	**−10.01**	339 4 6.75	42.737	− 21.1	**37.6**	8 50 31.40	−66.60	+18 2 14.7	....
13	α Leonis	10	3 14.61	− 0.17	9.91	333 28 6.28	45.942	− 27.4	37.2	10 3	.....	.. ..	....
14	γ^1 Leonis	11	14 39.55	− 0.19	−10.01	341 22 6.80	43.898	− 18.5	37.5	10 14	.....	.. ..	....
15	46 Leonis Minoris	10	47 55.24	− 0.22	−10.12	355 46 5.78	44.531	− 4.0	37.0	10 47	.....	.. ..	....
16	δ Leonis	9	8 59.49	− 0.19	−10.02	342 6 6.82	42.178	− 17.7	37.8	11 8	.....	.. ..	....
17	ζ Virginis	10	29 48.40	− 0.17	− 9.92	320 56 6.10	45.479	− 44.4	37.0	13 29	.....	.. ..	....
18	η Bootis	11	50 7.89	− 0.22	− 9.93	339 54 6.88	47.640	− 20.0	37.7	13 49	.....	.. ..	....
19	Moon I, N.	10	52 18.51	− 0.12	− **9.93**	305 38 4.22	43.320	−1 16.1	**38.0**	13 52 8.46	+63.83	−15 24 31.0	....
20	κ Virginis	11	7 46.52	− 0.14	− 9.89	311 14 6.52	41.935	−1 2.3	38.7	14 7	.....	.. ..	....
21	λ Virginis	11	13 54.91	− 0.13	− 9.99	308 8 6.40	41.794	−1 9.5	38.7	14 13	.....	.. ..	....
22	μ Herculis	11	42 46.03	− 0.18	− 9.89	348 48 6.25	44.438	− 11.0	[38.2]	17 42	.....	.. ..	....
23	δ Ursæ Minoris	8	4 42.30	+ 0.24	[− 9.88]	47 36 8.38	47.222	+1 1.0	[39.3]	18 4	.....	.. ..	....
	August 2, Ei.												
24	α Orionis	11	49 57.30	− 0.14	− 9.67	328 24 5.12	46.840	− 34.1	37.8	5 49	.....	.. ..	....
25	μ Geminorum	11	17 6.83	− 0.17	− 9.80	343 34 5.30	47.462	− 16.3	37.2	6 16	.....	.. ..	....
26	Venus II, N.	11	32 59.08	− 0.16	− **9.79**	338 4 5.78	46.791	− 22.2	**37.4**	6 32 49.13	− 1.56	+17 3 31.4	....
27	ε Geminorum	11	37 58.99	− 0.18	− 9.86	346 14	......	....	....	6 37	.....	.. ..	....
28	α^2 Geminorum	11	28 25.36	− 0.20	− 9.91	353 8 5.28	42.310	− 6.6	36.9	7 28	.....	.. ..	....
29	α Canis Minoris	11	34 15.60	− 0.15	− 9.69	326 30 5.08	45.184	− 36.5	37.6	7 34	.....	.. ..	....
	August 3, Ei.												
30	Sun I, N.	11	52 20.54	− 0.19	− **9.76**	338 48 5.60	44.105	− 21.3	**37.0**	8 52 10.59	+66.38	+17 46 42.0	....
31	Sun II, S.	9	54 33.29	− 0.19	− **9.76**	338 16 6.10	45.498	− 21.9	**37.0**	8 54 23.34	−66.37	+17 15 6.6	....
32	α Leonis	9	3 14.47	− 0.19	− 9.74	333 28 3.88	46.050	− 27.3	36.4	10 3	.....	.. ..	....
33	α Ursæ Majoris	11	57 44.58	− 0.36	[− 9.79]	23 18 6.12	43.906	+ 23.7	37.7	10 57	.....	.. ..	....
34	δ Leonis	10	8 59.22	− 0.23	− 9.71	342 6 5.50	42.262	− 17.6	36.6	11 8	.....	.. ..	....
35	ν Ursæ Majoris	11	13 16.53	− 0.26	− 9.85	354 38 4.45	48.315	− 5.1	36.6	11 13	.....	.. ..	....
36	β Leonis	11	44 9.29	− 0.22	− 9.61	336 8 4.90	47.455	− 24.1	37.0	11 43	.....	.. ..	....
37	κ Virginis	11	7 46.35	− 0.15	− 9.73	311 14 5.18	41.984	−1 2.0	38.5	14 7	.....	.. ..	....
38	α Bootis	11	11 18.24	− 0.26	− 9.62	340 44 6.08	42.232	− 19.0	37.1	14 11	.....	.. ..	....
39	ρ Bootis	11	27 43.49	− 0.29	− 9.71	351 50 4.45	43.372	− 7.8	37.2	14 27	.....	.. ..	....
40	Moon I, N.	11	42 41.94	− 0.11	− **9.69**	302 24 5.52	46.855	−1 25.4	**37.8**	14 42 32.14	+65.61	−18 37 31.0	....
41	β Ursæ Minoris	5	51 9.36	− 0.56	[− 9.62]	35 34 6.78	45.099	− 39.1	[38.3]	14 50	.....	.. ..	....
42	γ Scorpii	11	58 26.23	− 0.08	− 9.70	296 10 3.38	41.831	−1 50.2	38.2	14 58	.....	.. ..	....
43	δ Ursæ Minoris	11	4 43.37	− 0.44	[−10.55]	47 36 5.30	47.331	+1 0.9	[37.9]	18 4	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
1 13 34	29.82	84.8	84.9
5 39	29.93	73.5	70.9
6 21	29.935	74.8	72.0
6 41	29.94	75.1	73.0
7 32	29.94	76.8	73.9
2 8 51	29.93	78.2	75.7
10 6	29.915	79.2	76.5
10 18	29.915	79.9	78.1
11 15	29.90	81.8	78.1
13 26	29.88	79.8	78.7
13 44	29.87	79.0	78.6
14 17	29.87	78.6	78.9
17 36	29.87	72.9	71.1
18 11	29.87	72.8	71.0
5 45	29.92	74.0	71.5
6 40	29.92	76.5	73.7
7 39	29.93	77.0	75.0
3 8 55	29.93	79.2	77.3
9 36	29.93	80.0	78.9
11 2	29.92	82.0	80.1
11 51	29.91	82.0	80.4
14 4	29.89	82.0	81.7
14 57	29.91	80.0	82.1
17 58	29.94	74.5	73.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2.	Bisections at III, IV, V.
5, 7, 28, 32, 35, 38.	Bisections at II, VI, VII.
11, 30.	Bisections at I, II, III.
12, 31.	Bisections at V, VI, VII.
18.	Bisections at I, II.
19.	Bisections at III, IV, V.
23, 43.	Bisections at c_1, c_2, c_3, c_4, c_5.
34.	Bisections at VI, VII.
40.	Bisections at II, III, IV, V, VI.
41.	Bisections at I, II, III, V.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+41 42.7	−14 49.2	...	+26 53.5
8	+ 8.8	− 22.9	...	− 14.1
11	+ 3.2	+15 49.2	...	+15 52.4
12	+ 3.1	−15 49.2	...	−15 46.1
19	+44 11.9	14 54.6	...	+29 17.3
26	+ 8.6	− 22.6	...	− 14.0
30	+ 3.1	−15 47.7	...	−15 44.6
31	+ 3.2	+15 47.6	...	+15 50.8
40	+46 21.1	−15 3.0	...	+31 18.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Serpentis........	11	16 21.96	— 0.15	— 9.72	318 6 5.42	45.556	— 49.7	[37.6]	18 16	.....	.. ..	....
2	51 H. Cephei S. P ...	11	53 55.21	— 0.10	[— 9.06]	53 48 6.68	42.947	+1 16.1	[39.2]	6 53	.....	.. ..	....
	August 3, B.												....
3	μ Geminorum	11	17 6.67	— 0.15	— 9.64	343 34 7.68	47.392	— 16.5	37.4	6 16	.....	.. ..	....
4	Venus II, N......	11	33 45.24	0.13	— **9.67**	338 6 6.52	46.458	— 22.5	**37.1**	6 33 35.44	— 1.54	+17 5 25.8	....
5	ε Geminorum	11	37 58.78	— 0.16	9.65	346 14 6.38	46.900	— 13.7	36.8	6 37	.....	.. ..	....
6	θ Geminorum	11	46 24.06	— 0.19	— 9.66	355 6 4.98	43.585	— 4.7	36.7	6 46	.....	.. ..	....
7	α² Geminorum	11	28 25.17	- 0.18	— 9.72	353 8 4.70	42.310	— 6.8	36.8	7 28	.....	.. ..	....
	August 4, B.												
8	Sun I, N	11	56 11.79	— 0.13	- **9.63**	338 32 3.42	44.773	— 21.8	**37.1**	8 56 2.03	+66.38	+17 30 52.0	....
9	Sun II, S........	11	58 24.55	— 0.13	— **9.63**	338 0 3.58	46.158	— 22.4	**37.1**	8 58 14.79	—66.38	+16 59 16.2	....
10	α Leonis	11	3 14.18	0.11	— 9.53	333 28 5.45	46.000	— 27.6	37.3	10 3	.....	.. ..	....
11	γ¹ Leonis	11	14 39.08	— 0.14	— 9.59	341 22 6.15	43.876	— 18.6	36.5	10 14	.....	.. ..	....
12	α Ursæ Majoris....	11	57 44.27	— 0.32	[— 9.53]	23 18 6.85	43.865	+ 23.9	[38.2]	10 57	....	.. ..	....
13	δ Leonis	10	8 59.13	— 0.14	— 9.71	342 6 6.22	42.198	— 17.8	37.6	11 8	.....	.. ..	....
14	β Leonis	11	44 9.15	— 0.12	— 9.58	336 8 5.55	47.469	— 24.3	37.7	11 43	.....	.. ..	....
15	γ Scorpii	11	58 26.02	0.00	— 9.59	296 10 4.00	41.962	—1 51.4	38.5	14 58	.....	.. ..	....
16	β Libræ..........	11	11 50.38	— 0.10	— 9.56	312 0 4.38	47.376	—1 1.1	38.1	15 11	.....	.. ..	....
17	Moon I, N	11	35 57.68	— 0.03	— **9.56**	300 0 3.88	45.378	—1 35.5	**37.9**	15 35 48.09	+67.53	—21 2 11.2	....
18	ε Serpentis	11	46 2.64	— 0.17	— 9.47	325 48 5.72	45.071	— 37.7	37.2	15 45	.....	.. ..	....
19	δ Scorpii..........	11	54 38.60	— 0.02	— 9.62	298 42 3.88	45.065	—1 41.1	37.7	15 54	.....	.. ..	....
20	θ Ophiuchi.........	11	16 6.05	0.00	— 9.63	296 8 4.10	46.839	—1 53.3	38.2	17 15	.....	.. ..	....
21	b Ophiuchi........	11	20 29.75	— 0.01	— 9.65	296 58 4.25	43.474	—1 49.4.	38.3	17 20	.....	.. ..	....
22	Saturn I, S.......	6	56 7.67	— 0.02	— **9.64**	298 30 4.28	45.610	—1 42.7	**38.4**	17 55 58.01	+ 0.71	—22 32 13.8	....
23	Saturn II, N	5	56 9.08	— 0.02	- **9.64**	298 30 4.28	46.568	—1 42.7	**38.4**	17 55 59.42	— 0.70	—22 31 55.5	....
24	γ² Sagittarii........	11	59 37.36	+ 0.04	— 9.63	290 38 3.75	44.040	—2 27.4	38.7	17 59	.....	.. ..	....
25	μ Sagittarii........	11	8 1.09	— 0.03	— 9.63	299 58 3.65	42.861	—1 36.9	38.3	18 7	.....	.. ..	....
	August 5, Br.												
26	δ Ophiuchi........	11	9 19.43	— 0.19	— 9.54	317 36 4.38	42.834	— 50.3	37.8	16 9	.....	.. ..	....
27	α Scorpii..........	11	23 30.22	— 0.11	- 9.52	294 50 4.15	44.865	—1 58.6	38.0	16 23	.....	.. ..	....
28	Moon I, N	11	32 12.25	— 0.13	— **9.47**	298 35 59.32	48.150	—1 40.9	**38.2**	16 32 2.65	+69.30	—22 25 28.1	....
29	κ Ophiuchi........	11	53 9.01	— 0.22	— 9.34	330 34 3.70	42.390	— 31.3	38.0	16 52	.....	.. ..	....
30	η Ophiuchi	11	4 52.19	— 0.15	— 9.49	305 26 4.38	44.859	—1 17.8	39.0	17 4	.....	.. ..	....
	August 5, Ei.												
31	γ Geminorum	11	32 7.86	— 0.22	— 9.42	337 30 4.42	45.288	— 22.7	36.8	6 31	.....	.. ..	....
32	Venus II, N......	11	35 42.96	— 0.22	— **9.46**	338 10 4.58	47.449	— 22.0	**36.4**	6 35 33.28	— 1.49	+17 9 44.1	....
33	α Canis Majoris....	11	40 55.45	— 0.08	— 9.55	304 28 4.35	42.936	—1 19.8	[38.2]	6 40	.....	.. ..	....
34	α Canis Minoris ...	11	34 15.35	— 0.19	— 9.35	326 30 4.28	45.169	— 36.1	36.8	7 34	.....	.. ..	....
35	β Geminorum	11	39 23.62	— 0.28	— 9.48	349 16 4.98	47.370	— 10.3	35.6	7 39	.....	.. ..	....
	August 6, Ei.												
36	Sun I, S	11	3 53.03	— 0.27	— **9.43**	337 28 5.05	44.430	— 22.4	**37.0**	9 3 43.33	+66.17	+16 26 46.6	....
37	Sun II, N........	11	6 5.36	— 0.27	— **9.43**	338 0 5.68	43.237	— 21.8	**37.0**	9 5 55.66	—66.16	+16 58 23.0	....
38	α Leonis	11	3 14.09	— 0.27	— 9.27	333 28 4.10	46.080	— 26.8	37.8	10 3	.....	.. ..	....
39	46 Leonis Minoris ..	7	47 54.80	— 0.38	— 9.52	355 46	......	....	....	10 47	.....	.. ..	....
40	α Ursæ Majoris....	5	57 44.38	— 0.56	[— 9.43]	23 18 6.28	43.921	+ 23.2	[39.1]	10 57	.....	.. ..	....
41	δ Leonis	11	8 59.00	— 0.33	— 9.40	342 6 4.28	42.268	— 17.3	37.5	11 8	.....	.. ..	....
42	ν Ursæ Majoris....	8	13 16.32	— 0.38	— 9.53	354 38 3.60	48.380	— 5.0	37.4	11 13	.....	.. ..	....
43	β Leonis	11	44 9.05	— 0.32	— 9.29	336 8 4.30	47.498	— 23.6	37.7	11 43	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
3	19	1	29.95	73.0	71.5
	6	20	30.10	73.4	70.3
	6	53	30.11	74.5	71.9
	7	32	30.105	75.2	73.0
4	8	58	30.110	77.0	74.9
	10	6	30.09	79.8	76.0
	10	42	30.085	80.8	77.1
	11	14	30.08	82.4	78.6
	11	46	30.08	81.2	78.3
	15	0	30.08	79.6	79.2
	15	57	30.075	75.2	73.6
	17	6	30.075	72.8	71.1
	17	46	30.08	71.5	69.9
	18	12	30.08	70.8	69.4
5	16	6	30.06	78.8	77.8
	16	37	30.065	77.2	75.9
	17	8	30.07	75.7	74.2
	6	39	30.05	79.0	79.7
	6	59	30.05	81.0	81.1
	7	41	30.05	84.0	82.9
6	9	6	30.04	87.3	88.2
	10	6	30.03	89.5	90.0
	10	44	30.02	91.0	91.8
	11	19	30.02	93.5	91.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2.	Bisections at c_5, c_4, c_3, c_2, c_1.
3, 38, 42.	Bisections at II, VI, VII.
8, 36.	Bisections at I, II, III.
9, 37.	Bisections at V, VI, VII.
15.	Bisections at VI, VII.
17, 28.	Bisections at II, III, IV, V, VI.
22.	Bisections at I, VII.
23.	Bisections at II, VI.
40.	Bisections at II, III, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 8.5	— 22.2	...	— 13.7
8	+ 3.2	—15 47.9	...	—15 44.7
9	+ 3.2	+15 47.9	...	+15 51.1
17	+48 8.8	—15 14.1	...	+32 54.7
22	+ 0.8	+ 9.1	...	+ 9.9
23	+ 0.8	— 9.2	...	— 8.4
28	+49 31.9	—15 27.6	...	+34 4.3
32	+ 8.2	— 21.5	...	— 13.3
36	+ 3.3	+15 48.1	...	+15 51.4
37	+ 3.2	—15 48.2	...	—15 45.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ Ursæ Majoris	11	48 45.35	— 0.51	[— 9.33]	15 16 5.10	43.249	+ 14.7	[38.0]	11 48	.....	.. ..	....
2	ϐ Ophiuchi	11	16 5.90	— 0.12	— 9.38	296 8 3.80	46.738	—1 50.0	39.3	17 15	.....	.. ..	....
3	b Ophiuchi	11	20 29.67	— 0.13	— 9.47	296 58 3.88	43.390	—1 46.2	39.5	17 20	.....	.. ..	....
4	Moon I, N........	11	31 1.92	— 0.13	— **9.41**	298 28 9.22	42.499	—1 39.8	**38.9**	17 30 52.38	+70.59	—22 35 6.2	....
5	Saturn I, S	5	55 45.92	— 0.14	— **9.41**	298 30 3.35	44.655	—1 39.8	**38.9**	17 55 36.37	+ 0.70	—22 32 30.7	....
6	Saturn II, N	6	55 47.32	— 0.14	— **9.41**	298 30 3.35	45.678	—1 39.8	**38.9**	17 55 37.77	— 0.70	—22 32 11.2	....
7	δ Ursæ Minoris	11	4 43.54	— 2.60	[— 9.58]	47 36 5.38	47.484	+ 59.8	[39.1]	18 4	.....	.. ..	....
8	η Serpentis	11	16 21.68	— 0.24	— 9.37	318 6 4.68	45.586	— 48.8	38.2	18 16	.....	.. ..	....
9	λ Sagittarii	11	22 2.13	— 0.12	9.41	295 34 3.38	45.261	—1 53.2	38.6	18 21	.....	.. ..	....
10	51 H. Cephei S. P...	9	53 54.38	+ 2.30	[— 9.61]	53 48 4.50	43.222	+1 14.6	[39.8]	6 53	.....	.. ..	....
	August 6, La.												
11	α Orionis..........	11	49 57.01	— 0.20	— 9.21	328 24 3.95	46.888	— 33.5	37.8	5 49	.. ..	.. ..	....
12	μ Geminorum......	11	17 6.47	0.26	— 9.26	343 34 4.25	47.504	— 16.0	37.3	6 16	.....	.. ..	....
13	γ Geminorum......	11	32 7.72	— 0.24	— 9.23	337 30 2.98	45.470	— 22.4	37.5	6 31	.....	.. ..	....
14	Venus II, S	11	36 54.12	— 0.25	— **9.29**	338 12 4.00	46.348	— 21.6	**37.6**	6 36 44.58	1.47	+17 11 21.6	....
15	Venus N.........	..	.. ..	....	.....	338 12 4.00	48.548	— 21.6	**37.6**	.. ..	.....	+17 12 3.9	....
16	α² Geminorum......	11	28 25.03	— 0.32	— 9.38	353 8 2.92	42.448	— 6.5	38.2	7 28	.....	.. ..	....
17	β Geminorum......	11	39 23.51	— 0.31	9.32	349 16 3.40	47.551	— 10.2	37.6	7 39	.....	.. ..	....
	August 7, La.												
18	Sun I, N.........	11	7 42.64	— 0.30	— **9.17**	337 44 2.75	41.328	21.9	**37.6**	9 7 33.17	+66.06	+16 41 45.1	....
19	Sun II, S	11	9 54.76	— 0.30	— **9.17**	337 12 3.72	42.705	— 22.5	**37.6**	9 9 45.29	—66.06	+16 10 9.3	....
20	α Leonis	9	3 13.96	— 0.30	— 9.11	333 28 2.02	46.210	— 26.6	37.4	10 3	.....	.. ..	....
21	γ¹ Leonis	9	14 38.86	— 0.33	— 9.17	341 22	......	....	....	10 14	.....	.. ..	....
22	β Leonis	11	44 8.79	— 0.34	— 9.01	336 8 3.75	47.518	23.5	37.7	11 43	.....	.. ..	....
23	γ Virginis (*mean*) ..	11	36 47.05	— 0.28	— 8.99	320 8	......	....	....	12 36	.....	.. ..	....
24	μ Sagittarii	11	8 0.65	— 0.04	— 9.20	299 58 3.52	42.704	—1 33.5	38.6	18 7	.....	.. ..	....
25	λ Sagittarii	7	22 1.87	0.00	— 9.27	295 34 3.25	45.218	—1 52.6	38.3	18 21	.....	.. ..	....
26	Moon I, N........	11	31 32.71	— 0.03	**9.24**	299 40 2.92	45.396	—1 34.8	**38.6**	18 31 23.44	+71.20	—21 22 11.8	....
27	σ Sagittarii	11	49 17.91	+ 0.02	— 9.31	294 38 3.60	43.675	1 57.6	38.7	18 49	.....	.. ..	....
28	d Sagittarii	11	12 0.86	— 0.05	— 9.20	301 54 4.45	46.589	—1 26.9	38.7	19 11	.....	.. ..	....
	August 7, Ei.												
29	γ Geminorum......	10	32 7.35	0.20	— 8.88	337 30 3.50	45.370	— 22.4	37.7	6 31	.....	.. ..	....
30	Venus II, N......	11	38 12.86	0.21	— **8.94**	338 16 4.62	43.600	— 21.6	**37.2**	6 38 3.71	— 1.45	+17 14 29.8	....
31	Venus S	..	.. ..	....	.....	338 16 4.62	41.448	— 21.6	**37.2**	.. ..	.....	+17 13 48.9	....
32	θ Geminorum......	11	46 23.58	— 0.28	— 8.99	355 6 2.88	43.712	— 4.6	36.8	6 46	.....	.. ..	....
33	α² Geminorum......	9	28 24.60	— 0.28	— 8.97	353 8 3.50	42.377	— 6.5	36.9	7 28	.....	.. ..	....
34	α Canis Minoris....	11	34 14.88	— 0.17	— 8.87	326 30 4.30	45.189	— 35.6	37.6	7 34	.....	.. ..	....
35	β Geminorum......	11	39 23.08	— 0.27	— 8.91	349 16 3.78	47.488	— 10.2	36.9	7 39	.....	.. ..	....
	August 8, Ei.												
36	Sun I, N.........	11	11 31.45	— 0.24	— **8.87**	337 26 5.00	44.635	— 22.2	**37.6**	9 11 22.34	+65.96	+16 24 50.1	....
37	Sun II, S	11	13 43.37	— 0.24	— **8.87**	336 54 4.88	46.063	— 22.8	**37.6**	9 13 34.26	—65.96	+15 53 14.8	....
38	α Leonis......	11	3 13.48	— 0.23	— 8.70	333 28 3.92	46.042	— 26.7	37.6	10 3	.....	.. ..	....
39	δ Leonis...........	11	8 58.32	— 0.28	— 8.78	342 4 4.22	48.590	— 17.2	38.4	11 8	.....	.. ..	....
40	ν Ursæ Majoris	8	13 15.69	— 0.35	— 8.94	354 38	......	....	....	11 13	.....	.. ..	....
41	β Leonis...........	10	44 8.46	— 0.26	— 8.77	336 8 3.72	47.555	— 23.6	38.3	11 43	.....	.. ..	....
42	γ Corvi............	10	10 50.76	— 0.09	— 8.85	304 2 3.50	46.728	—1 18.6	37.8	12 10	.....	.. ..	....
43	ϐ Ophiuchi	11	16 5.20	— 0.02	— 8.80	296 8 4.02	46.689	—1 49.4	39.1	17 15	.....	.. ..	....
44	b Ophiuchi	11	20 28.90	— 0.03	— 8.82	296 58 4.00	43.348	—1 45.7	39.3	17 20	.....	.. ..	....
45	Groombridge 944 S. P.	9	30 10.33	+ 1.23	[— 8.90]	55 50 5.85	47.393	+1 19.9	[39.3]	5 30	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
6 11 53	30.01	93.0	93.0
17 25	29.97	84.0	83.8
18 26	29.98	83.0	82.3
19 19	29.97	82.0	82.1
5 55	30.025	84.2	84.0
6 43	30.035	87.2	86.6
7 38	30.045	90.0	89.9
7 9 10	30.03	92.7	92.7
10 7	30.02	94.0	94.5
12 31	29.99	95.2	95.1
17 52	29.965	87.0	86.3
18 35	29.98	86.0	84.7
19 19	29.98	84.8	84.3
6 28	30.03	86.5	86.1
6 56	30.03	88.0	88.2
7 42	30.03	90.0	89.8
8 9 14	30.02	92.2	92.1
9 58	30.01	93.0	92.7
10 54	30.00	94.0	93.8
11 59	29.97	95.0	93.8
12 15	29.97	95.2	94.0
17 13	29.92	86.5	85.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 26.	Bisections at II, III, IV, V, VI.
5, 15, 30.	Bisections at I, VII.
6, 14, 31.	Bisections at II, VI.
7.	Bisections at c_1, c_2, c_3, c_4, c_5.
10.	Bisections at c_5, c_4, c_3, c_2, c_1.
13, 19, 20.	Bisections at VI, VII.
18, 36.	Bisections at I, II, III.
27, 32, 33, 39, 42.	Bisections at II, VI, VII.
37.	Bisections at V, VI, VII.
45.	Bisections at II, III, V.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+50 24.7	—15 42.5	...	+34 42.2
5	+ 0.8	+ 9.7	...	+ 10.5
6	+ 0.8	— 9.8	...	— 9.0
14	+ 8.0	+ 21.2	— 0.1	+ 29.1
15	+ 8.0	— 21.2	...	— 13.2
18	+ 3.3	—15 47.9	...	—15 44.6
19	+ 3.4	+15 47.8	...	+15 51.2
26	+50 37.8	—15 57.9	...	+34 39.9
30	+ 7.9	— 20.5	...	— 12.6
31	+ 7.9	+ 20.5	— 0.1	+ 28.3
36	+ 3.3	—15 47.6	...	—15 44.3
37	+ 3.4	+15 47.6	...	+15 51.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ω Draconis	5	37 43.50	— 0.64	[— 8.71]	29 48 6.58	47.332	+ 31.1	[39.2]	17 37	.....	.. ..	....
2	Saturn I, N	6	55 24.98	— 0.04	— **8.76**	298 30 3.52	44.815	—1 39.2	**39.0**	17 55 16.18	+ 0.64	—22 32 26.9	....
3	Saturn II, S	5	55 26.26	— 0.04	— **8.76**	298 30 3.52	43.812	—1 39.3	**39.0**	17 55 17.46	— 0.64	—22 32 46.4	....
4	δ Ursæ Minoris	11	4 42.11	— 2.58	[— 8.88]	47 36 5.50	47.518	+ 59.5	[39.1]	18 4	.....	.. ..	....
5	η Serpentis	11	16 20.91	— 0.16	— 8.69	318 6 4.62	45.608	— 48.6	38.5	18 16	.....	.. ..	....
6	λ Sagittarii	11	22 1.35	— 0.02	— 8.74	295 34 3.48	45.238	—1 52.5	39.0	18 21	.....	.. ..	....
7	51 H. Cephei S. P.	11	53 54.85	+ 2.39	[— 9.40]	53 48 6.08	43.193	+1 14.2	[39.9]	6 53	.....	.. ..	....
8	δ Draconis	5	12 44.56	— 0.62	[— 8.66]	28 30 7.22	44.020	+ 29.6	[40.0]	19 12	.....	.. ..	....
9	δ Aquilæ	11	20 40.32	— 0.19	— 8.68	323 56 4.90	46.768	— 39.5	38.6	19 20	.....	.. ..	....
10	β Cygni	11	26 54.03	— 0.31	— 8.71	348 46 4.78	45.562	— 10.8	38.5	19 26	.....	.. ..	....
11	Moon I, N	11	32 35.80	— 0.07	— **8.65**	302 18 4.08	43.108	—1 25.7	**38.8**	19 32 27.08	+71.12	—18 44 40.7	....
12	Moon S	..	.. ..	....	.....	301 46 4.02	41.633	—1 27.5	**38.8**	.. ..	.....	—19 17 20.3	....
13	γ Aquilæ	11	41 43.13	— 0.22	— 8.60	331 24 4.70	44.008	— 29.6	39.0	19 41	.....	.. ..	....
14	α Aquilæ	11	46 7.11	— 0.22	8.59	329 38 4.88	44.385	31.8	39.1	19 45	.....	.. ..	....
	August 8, Br.												
15	α Orionis	11	49 56.37	0.16	— 8.57	328 24 5.82	46.856	— 33.4	38.9	5 49	.....	.. ..	....
16	γ Geminorum	3	32 7.05	— 0.20	— 8.56	337 30 5.50	45.282	— 22.4	38.1	6 31	.....	.. ..	....
17	Venus II, N	11	39 39.28	— 0.20	— **8.61**	338 18 6.22	45.135	— 21.5	**38.0**	6 39 30.47	— 1.43	+17 17 0.1	...
18	Venus S	..	.. ..	....	.....	338 18 6.22	42.985	— 21.5	**38.0**	.. ..	.....	+17 16 19.1	....
19	α² Geminorum	11	28 24.31	— 0.26	— 8.68	353 8 4.78	42.319	— 6.5	37.8	7 28	.....	.. ..	....
20	α Canis Minoris	11	34 14.60	— 0.17	— 8.57	326 30 5.78	45.171	— 35.7	38.6	7 34	.....	.. ..	....
21	β Geminorum	11	39 22.80	— 0.25	— 8.63	349 16 5.45	47.438	— 10.2	37.6	7 39	.....	.. ..	....
	August 9, Br.												
22	Sun I, N	11	15 19.55	— 0.22	— **8.57**	337 10 5.45	40.967	— 22.5	**38.0**	9 15 10.76	+65.92	+16 7 39.9	....
23	Sun II, S	11	17 31.39	— 0.22	— **8.57**	336 38 5.05	42.422	23.1	**38.0**	9 17 22.60	—65.92	+15 36 4.6	....
24	α Ursæ Majoris	10	57 43.60	— 0.48	[— 8.76]	23 18 6.80	43.891	+ 23.1	[39.1]	10 57	.....	.. ..	....
25	β Leonis	11	44 8.18	— 0.25	— 8.51	336 8 5.92	47.405	23.5	37.7	11 43	.....	.. ..	....
26	γ Ursæ Majoris	11	48 44.52	— 0.44	[— 8.62]	15 16 6.10	43.191	+ 14.6	[38.4]	11 48	.....	.. ..	....
27	γ Virginis (*mean*)	9	36 46.44	— 0.19	— 8.49	320 8	......	....	....	12 36	.....	.. ..	....
28	α Canum Venat	11	51 31.64	— 0.37	— 8.60	359 52 4.62	45.598	— 0.1	37.2	12 51	.....	.. ..	....
29	α Virginis	11	20 6.50	— 0.14	— 8.44	310 24 5.12	42.289	—1 2.2	37.9	13 19	.....	.. ..	....
30	Saturn I, N	6	55 14.97	— 0.04	— **8.37**	298 30 4.80	44.418	—1 39.2	**39.7**	17 55 6.56	+ 0.68	—22 32 34.0	....
31	Saturn II, S	5	55 16.32	— 0.04	— **8.37**	298 30 4.80	43.390	—1 39.2	**39.7**	17 55 7.91	— 0.67	—22 32 53.8	....
32	μ Sagittarii	11	7 59.83	— 0.05	— 8.39	299 58 4.55	42.685	—1 33.6	39.2	18 7	.....	.. ..	....
33	λ Sagittarii	11	22 0.95	— 0.02	— 8.35	295 34 4.82	45.205	—1 52.5	39.7	18 21	.....	.. ..	....
34	1 Aquilæ	11	29 58.51	— 0.12	— 8.33	312 42	......	....	....	18 29	.....	.. ..	....
35	δ Draconis	9	12 44.12	— 0.44	[— 8.43]	28 30 7.25	43.958	+ 29.6	[40.0]	19 12	.....	.. ..	....
36	α² Capricorni	11	12 43.32	0.09	8.37	308 10 5.52	47.776	—1 9.1	40.3	20 12	.....	.. ..	....
37	π Capricorni	11	21 48.82	— 0.06	— 8.30	302 30 5.38	45.211	1 25.2	39.2	20 21	.....	.. ..	....
38	ε Delphini	11	28 38.55	0.19	— 8.15	332 0 5.18	42.961	— 28.9	39.9	20 28	.....	.. ..	....
39	Moon I, S	11	33 9.37	— 0.08	— **8.27**	305 40 2.75	43.383	—1 15.7	**39.7**	20 33 1.02	+70.54	+15 22 32.6	....
	August 9, Ei.												
40	δ Ursæ Minoris S. P.	14	4 36.76	— 1.09	[— 5.53]	54 22	......	....	....	18 4	.....	.. ..	....
41	γ Geminorum	10	32 6.54	— 0.11	— 8.11	337 30 5.08	45.432	22.3	39.0	6 31	.....	.. ..	....
42	Venus II, S	11	41 13.07	— 0.12	— **8.09**	338 20 4.75	44.740	— 21.4	**38.1**	6 41 4.86	— 1.40	+17 18 51.0	....
43	Venus N	..	.. ..	....	.....	338 20 4.75	46.838	— 21.4	**38.1**	.. ..	.....	+17 19 31.5	....
44	β Canis Minoris	11	21 53.67	— 0.14	— 7.94	329 30 2.60	46.966	31.6	37.5	7 21	.....	.. ..	....
45	α² Geminorum	11	28 23.74	— 0.20	— 8.15	353 8 3.40	42.378	6.4	37.8	7 28	.....	.. ..	....
46	α Canis Minoris	11	34 14.01	— 0.14	8.00	326 30 2.58	45.295	— 35.5	37.9	7 34	.....	.. ..	....
47	β Geminorum	11	39 22.30	— 0.20	8.16	349 16 3.35	47.532	— 10.1	37.5	7 39	.....	.. ..	....
48	Mercury II, C	11	21 36.19	— 0.21	**8.04**	337 6 4.65	42.606	22.6	**38.1**	8 21 27.94	0.34	+16 4 9.0	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
8 17 51	29.92	85.5	85.0
18 46	29.93	85.0	84.6
19 24	29.93	84.0	83.3
19 50	29.93	83.0	82.7
5 54	29.935	83.6	82.9
6 45	29.94	86.9	85.5
7 43	29.94	88.9	87.6
9 9 18	29.92	91.3	91.2
11 2	29.905	94.5	92.6
11 55	29.885	94.9	93.7
13 25	29.86	94.6	94.8
17 59	29.85	85.5	83.9
18 41	29.86	84.6	83.1
19 17	29.86	84.0	82.6
20 8	29.87	82.5	80.9
20 38	29.87	82.0	80.9
6 16	29.93	86.5	86.4
6 47	29.94	88.0	88.0
7 43	29.95	91.0	90.8
8 41	29.95	92.0	91.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 8.	Bisections at III, V, VI, VII.
2, 17, 30, 42.	Bisections at I, VII.
3, 18, 31, 43.	Bisections at II, VI.
4.	Bisections at c_1, c_2, c_3, c_4, c_5.
7.	Bisections at c_5, c_4, c_3, c_2, c_1.
9.	Bisections at II, VI, VII.
11, 22.	Bisections at I, II, III.
12, 23.	Bisections at V, VI, VII.
28, 41.	Bisections at VI, VII.
35.	Bisections at b_1, b_3, d_1, d_3.
39.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 0.8	— 9.8	...	— 9.0
3	+ 0.8	+ 9.7	...	+ 10.5
11	+50 1.6	—16 11.8	0.0	+33 49.8
12	+50 17.6	+16 11.8	...	+66 29.4
17	+ 7.7	— 20.5	...	— 12.8
18	+ 7.7	+ 20.5	0.0	+ 28.2
22	+ 3.4	—15 47.7	...	—15 44.3
23	+ 3.4	+15 47.6	...	+15 51.0
30	+ 0.8	— 9.9	...	— 9.1
31	+ 0.8	+ 9.9	...	+ 10.7
39	+48 37.4	+16 24.3	...	+65 1.7
42	+ 7.6	+ 20.3	0.1	+ 27.8
43	+ 7.6	— 20.3	...	— 12.7
48	+ 5.0	....	0.0	+ 5.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	August 10, Ei.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun S	..	.. ..	....	.....	336 20 4.58	44.122	— 23.4	**38.1**	9 20	.....	+15 18 38.1	....
2	Sun N..........	..	.. ..	....	.....	336 52 4.08	43.035	— 22.8	**38.1**	.. ..	.....	+15 50 15.5	....
3	α Leonis	11	3 12.65	— 0.23	— 7.86	333 28 3.15	46.137	— 26.6	38.1	10 3	.....	.. ..	....
4	γ¹ Leonis	10	14 37.69	— 0.26	— 8.06	341 22 3.88	44.051	— 18.0	38.5	10 14	.....	.. ..	....
5	α Ursæ Majoris....	11	57 42.88	— 0.41	[— 8.12]	23 18 5.28	43.992	+ 23.0	[39.6]	10 57	.....	.. ..	....
6	δ Leonis	11	8 57.44	— 0.26	— 7.92	342 6 3.85	42.340	— 17.2	38.8	11 8	.....	.. ..	....
7	ν Ursæ Majoris....	8	13 14.75	— 0.30	— 8.06	354 38 3.65	48.375	4.9	38.1	11 13	.....	.. ..	....
8	ζ Capricorni.......	11	21 10.01	0.00	— 7.85	298 12 4.92	45.358	—1 40.7	39.4	21 21	.....	.. ..	....
9	β Aquarii..........	11	26 29.86	— 0.10	— 7.75	315 2 6.28	42.848	— 54.1	39.1	21 26	.....	.. ..	....
10	Moon II, N.......	11	34 57.05	— 0.08	— **7.78**	311 10 5.18	44.939	—1 2.0	**39.6**	21 34 49.19	—69.80	— 9 51 46.6	....
11	ε Pegasi...........	11	39 28.43	— 0.17	— 7.65	330 26 5.50	46.889	— 30.8	39.7	21 39	.....	.. ..	....
12	μ Capricorni.......	11	48 2.98	— 0.06	— 7.86	307 0 5.18	48.068	—1 11.9	40.3	21 47	.....	.. ..	....
	August 10, La.												
13	γ Geminorum	11	32 6.10	— 0.14	— 7.62	337 30 5.40	45.326	— 22.3	38.8	6 31	.....	.. ..	....
14	ε Geminorum	11	37 57.01	— 0.16	— 7.70	346 14 6.75	46.946	— 13.2	38.7	6 37	.....	.. ..	....
15	Venus II, S......	11	42 54.04	— 0.14	— **7.70**	338 22 6.50	46.435	— 21.4	**38.7**	6 42 46.20	— 1.38	+17 21 24.9	....
16	Venus N	..	.. ..	....	.....	338 22 6.50	48.555	— 21.3	**38.7**	.. ..	.....	+17 22 5.7	....
17	α² Geminorum	11	28 23.35	— 0.21	— 7.73	353 8 4.98	42.397	— 6.4	39.2	7 28	.....	.. ..	....
18	β Geminorum	11	39 21.82	— 0.21	— 7.65	349 16 4.85	47.492	— 10.1	38.3	7 39	.....	.. ..	....
	August 11, La.												
19	Sun I, S.........	11	22 53.80	— 0.24	— **7.49**	336 2 6.40	45.027	— 23.5	**38.7**	9 22 46.07	+65.76	+15 0 56.6	....
20	Sun II, N	11	25 5.31	— 0.24	— **7.49**	336 34 6.12	43.970	— 22.9	**38.7**	9 24 57.58	—65.75	+15 32 34.7	....
21	α Leonis	11	3 12.19	— 0.26	— 7.37	333 28 5.50	45.985	— 26.4	38.5	10 3	.....	.. ..	....
22	γ¹ Leonis	10	14 37.28	— 0.30	[— 7.61]	341 22 5.65	44.002	— 17.8	38.0	10 14	.....	.. ..	....
23	α Ursæ Majoris....	11	57 42.42	— 0.56	[— 7.52]	23 18 8.08	43.812	+ 22.8	[39.1]	10 57	.....	.. ..	....
24	δ Leonis	11	8 56.97	— 0.34	— 7.38	342 6 7.00	42.186	— 17.0	39.3	11 8	.....	.. ..	....
25	ν Ursæ Majoris....	11	13 14.16	— 0.39	— 7.38	354 38 5.88	48.270	— 4.9	38.5	11 13	.....	.. ..	....
26	α Ophiuchi........	11	30 28.38	— 0.21	— 7.21	333 40 6.45	42.760	— 26.5	40.2	17 30	.....	.. ..	....
27	ω Draconis	11	37 41.98	— 0.51	[— 7.47]	29 48 5.80	47.351	+ 30.8	[38.1]	17 37	.....	.. ..	....
28	Saturn I, S	6	54 55.82	— 0.05	— **7.35**	298 30 2.80	42.640	—1 38.2	**39.6**	17 54 48.42	+ 0.63	—22 33 9.0	....
29	Saturn II, N.....	5	54 57.08	— 0.05	— **7.35**	298 30 2.80	43.665	—1 38.2	**39.6**	17 54 49.68	— 0.63	—22 32 49.3	....
30	δ Ursæ Minoris....	11	4 40.53	— 1.76	[— 9.12]	47 36 5.35	47.626	+ 58.9	[40.0]	18 4	.....	.. ..	....
31	η Serpentis........	11	16 19.50	— 0.15	— 7.32	318 6 6.40	45.542	— 48.0	38.8	18 16	.....	.. ..	....
32	λ Sagittarii........	11	22 0.05	— 0.03	— 7.45	295 34 5.25	45.105	—1 51.2	39.6	18 21	.....	.. ..	....
33	σ Sagittarii........	11	49 16.02	— 0.02	— 7.41	294 38 4.90	43.541	—1 56.2	39.6	18 49	.....	.. ..	....
34	51 H. Cephei S. P ...	6	53 54.26	+ 1.42	[— 6.78]	53 48 7.32	43.233	+1 13.4	[40.5]	6 53	.....	.. ..	....
35	δ Draconis	11	12 43.11	— 0.50	[— 7.42]	28 30 8.45	44.015	+ 29.3	[39.7]	19 12	.....	.. ..	....
36	π Aquarii..........	11	20 21.71	— 0.20	— 7.15	321 54 7.65	44.990	— 42.6	39.5	22 20	.....	.. ..	....
37	σ Aquarii..........	..	.. ..	....	.....	309 50 6.85	47.608	—1 5.0	39.8	22 25	.....	.. ..	....
38	Moon II, N......	11	33 16.56	— 0.18	— **7.09**	316 48 7.02	44.463	— 51.0	**39.5**	22 33 9.29	—69.21	— 4 13 42.8	....
39	ζ Pegasi...........	11	36 39.85	— 0.23	— 7.04	331 20 8.52	45.345	— 29.7	39.2	22 36	.....	.. ..	....
40	λ Aquarii..........	11	47 35.31	— 0.17	— 7.11	312 56 8.10	43.066	— 58.4	39.6	22 47	.....	.. ..	....
41	α Pegasi...........	11	59 58.12	— 0.25	— 7.04	335 42 8.68	43.396	— 24.5	39.6	22 59	.....	.. ..	....
	August 13, La.												
42	γ Geminorum	11	32 4.46	— 0.15	— 5.89	337 30 3.70	45.455	— 22.5	39.4	6 31	.....	.. ..	....
43	ε Geminorum	11	37 55.38	— 0.17	— 5.99	346 14 4.60	47.064	— 13.3	38.8	6 37	.....	.. ..	....
44	Venus II, S......	10	48 38.03	— 0.15	— **6.00**	338 30 3.90	45.040	— 21.4	**38.9**	6 48 31.88	— 1.32	+17 28 55.3	....
45	Venus N	..	.. ..	....	.....	338 30 3.90	47.008	— 21.4	**38.9**	.. ..	.....	+17 29 33.0	....
46	α² Geminorum	11	28 21.78	— 0.20	— 6.09	353 8 3.42	42.430	— 6 5	39.0	7 28	.....	.. ..	....
47	α Canis Minoris....	11	34 12.02	— 0.13	— 5.94	326 30 3.38	45.372	— 35.9	39.2	7 34	.....	.. ..	....
48	β Geminorum	11	39 20.22	0.20	— 6.00	349 16 3.90	47.561	— 10.2	38.8	7 39	.....	.. ..	....
49	Mercury II, C ...	11	24 39.04	— 0.18	— **5.92**	338 4 4.42	42.679	— 21.8	**38.9**	8 24 32.94	— 0.30	+17 2 10.2	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
10 9 20	29.94	93.0	92.7
10 7	29.93	93.5	92.9
10 50	29.93	94.2	93.6
11 20	29.92	95.5	94.5
21 18	29.88	83.5	83.4
21 53	29.88	83.0	82.1
6 40	29.92	87.6	86.7
7 43	29.925	91.0	90.3
11 9 25	29.90	95.8	96.1
10 6	29.89	96.4	95.9
11 0	29.875	98.0	98.1
11 18	29.87	99.0	98.1
17 42	29.83	88.6	88.7
18 25	29.83	88.8	88.9
19 1	29.82	87.8	87.7
19 20	29.82	87.3	87.6
22 13	29.81	82.0	81.0
22 54	29.80	81.3	80.7
13 6 34	29.88	82.0	81.0
7 33	29.885	83.8	82.6
8 28	29.89	85.6	84.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 19.	Bisections at I, II, III.
2, 20.	Bisections at V, VI, VII.
3, 7, 17, 31, 35.	Bisections at II, VI, VII.
10.	Bisections at II, III, IV, V, VI.
15, 28, 44.	Bisections at II, VI.
16, 29, 45.	Bisections at I, VII.
22.	Bisections at VI, VII.
25, 47.	Bisections at I, VI, VII.
30.	Bisections at c_1, c_2, c_3, c_4, c_5.
34.	Bisections at c_5, c_4, c_3, c_2, c_1.
38.	Bisections at III, IV, V.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 3.5	+15 48.6	...	+15 52.1
2	+ 3.4	—15 48.7	...	—15 45.3
10	+45 23.2	16 32.4	...	+28 50.8
15	+ 7.5	+ 20.4	0.0	+ 27.9
16	+ 7.5	20.4	...	— 12.9
19	+ 3.5	+15 49.0	...	+15 52.5
20	+ 3.5	—15 49.1	...	—15 45.6
28	+ 0.8	+ 9.8	...	+ 10.6
29	+ 0.8	— 9.9	...	— 9.1
38	+41 22.8	16 35.8	...	+24 47.0
44	+ 7.1	+ 18.9	— 0.1	+ 25.9
45	+ 7.1	— 18.9	...	— 11.8
49	+ 4.3	....	+ 0.3	+ 4.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	August 14, La.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N	11	34 10.94	— 0.19	— **5.87**	335 40 4.38	42.638	— 24.4	**38.9**	9 34 4.88	+65.50	+14 38 7.8	....
2	Sun II, S........	10	36 21.93	— 0.19	— **5.87**	335 8 3.95	43.935	— 25.0	**38.9**	9 36 15.87	—65.49	+14 6 29.6	....
3	δ Leonis	10	8 55.27	0.24	— 5.79	342 6 4.72	42.200	— 17.3	38.8	11 8	.....	.. ..	....
4	β Leonis	11	44 5.35	— 0.23	— 5.72	336 8 4.35	47.550	— 23.7	38.9	11 43	.....	.. ..	....
5	γ Ursæ Majoris	11	48 41.63	— 0.39	[— 5.83]	15 16 4.80	43.208	+ 14.8	[38.8]	11 48	.....	.. ..	....
6	δ² Corvi	11	24 49.31	0.11	— 5.72	305 4 2.98	45.694	—1 16.1	39.3	12 24	.....	.. ..	....
7	α Canum Venat....	11	51 28.75	— 0.35	— 5.80	359 52 3.05	45.586	— 0.1	37.7	12 51	.....	.. ..	....
8	ε Piscium	10	57 54.58	— 0.19	— 5.46	328 22 3.42	47.512	— 33.8	40.2	0 57	.....	.. ..	....
9	β Andromedæ	11	4 17.94	— 0.29	— 5.57	356 6 3.28	46.558	— 3.7	39.3	1 4	.....	.. ..	....
10	f Piscium	11	12 47.81	0.18	— 5.54	324 8 4.40	42.060	— 39.8	40.2	1 12	.....	.. ..	....
11	Moon II, N.....	11	26 17.88	— 0.22	— **5.50**	333 32 4.88	45.209	— 27.4	**40.4**	1 26 12.16	—69.63	+12 30 52.0	....
12	ν Piscium	11	36 22.80	0.18	— 5.45	326 0 5.50	46.884	— 37.1	40.5	1 36	.....	.. ..	....
13	o Piscium	11	40 16.01	0.20	— 5.47	329 40 5.55	47.765	— 32.2	41.5	1 40	.....	.. ..	....
	August 16, Br.												
14	α Ceti.............	11	57 10.97	0.13	— 4.57	324 44 4.82	43.678	— 38.9	43.7	2 57	.....	.. ..	....
15	Moon II, N......	11	24 33.53	— 0.20	— **4.58**	340 50 4.58	47.141	— 19.1	**43.4**	3 24 28.75	—70.57	+19 49 34.2	....
16	η Tauri	4	41 40.52	— 0.20	— 4.60	344 48 4.70	47.938	— 14.9	43.5	3 41	.....	.. ..	....
17	ζ Persei...........	11	47 59.12	0.23	— 4.68	352 36 4.12	45.585	— 7.1	43.3	3 47	.....	.. ..	....
18	α Tauri	11	30 18.52	— 0.18	4.46	337 20 4.98	44.258	— 23.0	43.3	4 30	.....	.. ..	....
	August 17, Ei.												
19	δ Ursæ Minoris....	10	4 31.33	+ 1.16	[— 4.80]	47 36 5.45	47.758	+1 0.1	[42.6]	18 4	.....	.. ..	....
20	η Serpentis........	11	16 16.23	— 0.08	[— 4.17]	318 6 4.20	45.858	— 49.1	[41.8]	18 16	.....	.. ..	....
21	51 H. Cephei S. P...	9	53 57.60	— 2.28	[— 4.34]	53 48 4.18	43.510	+1 15.0	[42.8]	6 53	.....	.. ..	....
	August 24, Hd.												
22	ζ Geminorum	11	58 30.19	— 0.05	—16.91	341 44 2.88	44.822	— 18.0	36.9	6 58	.....	.. ..	....
23	Venus II, S......	11	17 18.15	— 0.05	—**16.95**	338 48 4.35	41.110	— 21.2	**37.4**	7 17 1.15	— 1.13	+17 45 42.4	....
24	α² Geminorum	11	28 32.84	— 0.08	—17.00	353 8 3.42	42.305	— 6.5	37.6	7 28	.....	.. ..	....
25	α Canis Minoris ...	3	34 23.09	— 0.02	—16.91	326 30 4.45	45.202	— 36.1	38.5	7 34	.....	.. ..	....
26	β Geminorum	11	39 31.31	— 0.08	—16.97	349 16 3.75	47.455	— 10.3	37.5	7 39	.....	.. ..	....
	August 25, Hd.												
27	Sun I, N..........	11	15 12.52	— 0.07	—**16.90**	332 4 4.45	41.535	— 28.9	**37.4**	10 14 55.55	+64.63	+11 1 41.9	....
28	Sun II, S.........	11	17 21.78	— 0.07	—**16.90**	331 32 4.52	42.785	— 29.5	**37.4**	10 17 4.81	—64.63	+10 30 5.0	....
29	α Canum Venat....	11	51 39.59	— 0.20	—16.93	359 52 3.48	45.473	— 0.1	37.8	12 51	.....	.. ..	....
30	ε Virginis.........	8	57 30.78	— 0.11	—16.76	332 30 4.22	47.490	— 28.0	37.1	12 57	.....	.. ..	....
31	α Bootis...........	11	11 25.01	— 0.16	—16.82	340 44 4.05	42.238	— 18.8	36.2	14 11	.....	.. ..	....
32	θ Herculis.........	11	53 9.30	— 0.21	[—16.90]	358 16 4.08	47.578	— 1.6	[36.6]	17 52	.....	.. ..	....
33	δ Ursæ Minoris....	10	4 41.60	— 0.03	[—16.97]	47 36 5.35	47.648	+ 59.7	[38.8]	18 4	.....	.. ..	....
34	η Serpentis........	11	16 28.85	— 0.06	[—16.91]	318 6 3.92	45.659	— 48.8	[37.6]	18 16	.....	.. ..	....
35	α Lyræ............	11	33 53.37	— 0.21	[—16.97]	359 42 3.55	46.584	— 0.2	[37.3]	18 33	.....	.. ..	....
36	51 H. Cephei S. P...	8	54 12.22	— 0.79	[—17.05]	53 48 4.95	43.382	+1 14.6	[38.9]	6 53	.....	.. ..	....
37	ι Lyræ............	11	4 4.47	— 0.21	[—16.96]	356 58 3.22	44.159	— 2.8	[37.2]	19 3	.....	.. ..	....
	August 26, Ei.												
38	ζ Geminorum	11	58 30.03	— 0.12	—16.63	341 44 5.20	44.722	— 17.9	37.5	6 58	.....	.. ..	....
39	δ Geminorum	11	14 28.30	— 0.12	—16.55	343 12 4.22	41.368	— 16.4	37.3	7 14	.....	.. ..	....
40	Venus II, S......	11	23 29.49	— 0.11	—**16.60**	338 46 4.75	47.112	— 21.1	**37.3**	7 23 12.78	— 1.10	+17 45 37.7	....
41	Venus N	..	.. ..	....	.....	338 46 4.75	48.730	— 21.0	**37.3**	.. ..	.....	+17 46 9.2	....
42	α² Geminorum	11	28 32.65	— 0.15	—16.69	353 8 4.30	42.232	— 6.5	37.3	7 28	.....	.. ..	....
43	α Canis Minoris ...	11	34 22.83	— 0.06	—16.56	326 30 3.22	45.312	— 35.9	37.8	7 34	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
14 9 36	29.87	87.1	86.1
11 4	29.875	89.2	88.7
11 52	29.87	89.4	88.[illegible]
12 31	29.86	89.8	89.1
12 55	29.855	90.0	89.5
1 1	29.87	77.4	75.7
1 44	29.86	76.6	74.8
16 3 0	29.83	76.4	74.4
3 56	29.835	76.1	74.1
4 34	29.84	76.5	74.7
17 18 12	29.89	81.0	78.5
19 3	29.89	79.5	77.8
24 7 5	29.90	81.0	79.9
7 45	29.91	82.5	81.4
25 10 17	29.895	82.7	81.4
13 4	29.88	88.0	86.9
14 17	29.87	88.7	87.7
17 46	29.87	83.0	82.5
18 42	29.88	81.5	80.9
19 10	29.88	81.0	80.3
26 7 2	29.92	83.5	82.2
7 40	29.93	85.5	84.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1.	Bisections at I, II, III.
2.	Bisections at V, VI, VII.
3, 25, 32.	Bisections at I, II.
9, 16, 28.	Bisections at VI, VII.
11, 15.	Bisections at II, III, IV, V, VI.
19.	Bisections at c_1, c_2, c_3, c_4, c_5.
20, 26, 41.	Bisections at II, VI.
21.	Bisections at c_5, c_4, c_3, c_2, c_1.
27, 30.	Bisection at II.
29.	Bisections at II, VI, VII.
33.	Bisections at c_2, c_3, c_4, c_5.
36.	Bisections at c_4, c_3, c_2, c_1.
40.	Bisections at I, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 3.6	—15 49.1	...	—15 45.5
2	+ 3.7	+15 49.0	...	+15 52.7
11	+26 22.7	—16 19.3	...	+10 3.4
15	+18 52.9	—15 55.9	...	+ 2 57.0
23	+ 5.9	+ 16.1	...	+ 22.0
27	+ 4.1	—15 48.4	...	—15 44.3
28	+ 4.1	+15 48.5	...	+15 52.6
40	+ 5.8	+ 15.8	...	+ 21.6
41	+ 5.8	— 15.8	+ 0.1	— 9.9

NO.		DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
				m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α	Lyncis	11	15 16.72	— 0.16	—16.66	355 50 3.48	43.355	— 3.9	36.3	9 14	....	.. ..	....
2		Mercury II, C....	11	25 7.18	— 0.10	**—16.59**	337 14 3.65	46.001	— 22.5	**36.9**	9 24 50.49	— 0.21	+16 13 14.3	....
3	α	Leonis	7	3 21.23	— 0.09	—16.48	333 28	......	....	....	10 3	.....	.. ..	....
		August 27, Ei.												
4		Sun I, N.........	11	22 31.93	— 0.08	**—16.59**	331 22 4.30	42.435	— 29.3	**36.7**	10 22 15.26	+64.58	+10 20 1.1	....
5		Sun II, S........	11	24 41.09	— 0.08	**—16.59**	330 50 4.60	43.457	— 29.9	**36.7**	10 24 24.42	—64.58	+ 9 48 18.5	....
6	β	Leonis	11	44 15.97	— 0.10	—16.51	336 8 3.85	47.386	— 23.6	36.0	11 43	.....	.. ..	....
7	α	Canum Venat....	11	51 39.32	— 0.17	—16.71	359 52 2.18	45.460	— 0.1	36.1	12 51	.....	.. ..	....
8	ε	Virginis.........	9	57 30.45	— 0.09	—16.46	332 30 3.65	47.542	— 27.8	36.5	12 57	.....	.. ..	....
9	η	Ursæ Majoris....	11	43 53.75	— 0.18	[—16.55]	10 48 3.65	49.044	+ 10.3	[37.8]	13 43	.....	.. ..	....
10	η	Bootis...........	8	50 14.14	— 0.11	—16.63	339 54	......	....	....	13 49	.....	.. ..	....
		August 27, Hd.												
11	β	Canis Minoris....	11	22 2.28	— 0.04	—16.27	329 30 4.00	47.062	— 32.2	38.1	7 21	.....	.. ..	....
12		Venus II, S......	11	26 40.69	— 0.08	**—16.38**	338 46 4.72	45.510	— 21.2	**37.6**	7 26 24.23	— 1.09	+17 45 6.5	....
13	α	Canis Minoris....	11	34 22.61	0.03	—16.35	326 30 3.88	45.331	— 36.2	38.6	7 34	.....	.. ..	....
14	β	Geminorum	11	39 30.86	— 0.11	—16.41	349 16 4.58	47.410	— 10.3	37.5	7 39	.....	.. ..	....
15	α	Lyncis	11	15 16.52	0.12	—16.48	355 50 4.02	43.310	— 3.9	36.2	9 14	.....	.. ..	....
16		Mercury C, C....	7	32 3.23	— 0.07	**—16.38**	336 52 4.05	41.771	— 23.2	**37.6**	9 31 46.78	— 0.04	+15 49 52.4	....
		August 28, Hd.												
17		Sun I, S.........	11	26 10.99	— 0.05	**—16.38**	330 28 5.75	45.990	— 30.7	**37.6**	10 25 54.56	+64.52	+ 9 27 8.3	....
18		Sun II, N........	11	28 20.04	— 0.05	**—16.38**	331 0 4.68	45.283	— 30.0	**37.6**	10 28 3.61	—64.53	+ 9 58 52.5	....
19	ε	Bootis...........	11	40 55.59	0.10	—16.35	348 30 3.52	47.095	— 11.0	37.4	14 40	.....	.. ..	....
20	α²	Libræ...........	7	45 39.89	+ 0.09	—16.45	305 24 3.45	45.612	—1 16.0	37.0	14 45	.....	.. ..	....
21	β	Bootis...........	11	58 28.87	— 0.13	—16.40	1 48 4.12	44.610	+ 1.8	37.8	14 58	.....	.. ..	....
22	β	Libræ...........	6	11 56.69	+ 0.04	—16.36	312 0	......	....	....	15 11	.....	.. ..	....
23	α	Coronæ Borealis..	11	30 45.85	0.10	—16.34	348 4 4.20	45.208	— 11.4	37.9	15 30	.....	.. ..	....
24	θ	Herculis.........	11	53 8.52	— 0.15	[—16.25]	358 16 3.52	47.714	— 1.6	[36.6]	17 52	.....	.. ..	....
25	δ	Ursæ Minoris....	11	4 39.17	— 0.89	[—14.71]	47 36 5.42	47.635	+1 0.0	[38.4]	18 4	.....	.. ..	....
26	η	Serpentis........	11	16 28.09	+ 0.08	[—16.33]	318 6 3.00	45.724	— 48.9	[37.6]	18 16	.....	.. ..	....
27	α	Lyræ	11	33 52.58	— 0.15	[—16.30]	359 42 3.85	46.604	— 0.2	[37.4]	18 33	.....	.. ..	....
28	51	H. Cephei s. p....	11	54 9.18	+ 0.44	[—14.12]	53 48 4.52	43.447	+1 14.8	[39.3]	6 53	.....	.. ..	....
29	ι	Lyræ	11	4 3.73	— 0.14	[—16.34]	356 58 2.95	44.191	— 2.8	[37.0]	19 3	....	.. ..	....
		August 28, Ei.												
30	δ	Geminorum	11	14 27.66	0.10	—15.88	343 12 4.28	41.361	— 16.5	37.1	7 14	.....	.. ..	....
31		Venus II, N......	11	29 55.51	0.10	**—15.91**	338 46 5.28	44.452	— 21.2	**37.2**	7 29 39.50	— 1.07	+17 44 47.1	....
32		Venus S.........	..	.. ..	....	.....	338 46 5.28	42.845	— 21.2	**37.2**	.. ..	.....	+17 44 16.6	....
33	α	Canis Minoris....	11	34 22.21	— 0.06	—15.90	326 30 3.20	45.312	— 36.1	37.6	7 34	.....	.. ..	....
34	β	Geminorum	11	39 30.44	— 0.12	—15.95	349 16 3.50	47.431	— 10.3	37.0	7 39	.....	.. ..	....
		August 29, Br.												
35	δ	Geminorum	9	14 27.59	— 0.08	—15.81	343 12 5.10	41.385	— 16.6	38.4	7 14	.....	.. ..	....
36	α²	Geminorum	11	28 31.90	— 0.10	—15.91	353 8 4.20	42.245	— 6.6	37.6	7 28	.....	.. ..	....
37		Venus II, S......	11	33 14.05	— 0.07	**—15.86**	338 44 5.18	45.452	— 21.3	**37.6**	7 32 58.12	— 1.06	+17 43 5.7	....
38		Venus N.........	..	.. ..	....	.....	338 44 5.18	46.992	— 21.3	**37.6**	.. ..	.....	+17 43 35.5	....
39	β	Geminorum	11	39 30.35	— 0.10	—15.86	349 16 5.02	47.342	— 10.3	36.9	7 39	.....	.. ..	....
40		Mercury C, C....	11	46 22.89	— 0.08	**—15.81**	335 56 4.95	45.448	— 24.2	**37.6**	9 46 7.00	— 0.03	+14 55 2.6	....
		August 30, Br.												
41		Sun I, S.........	11	33 27.93	— 0.07	**—15.79**	329 46 4.95	43.917	— 31.6	**37.6**	10 33 12.07	+64.51	+ 8 44 26.8	....
42		Sun II, N........	11	35 36.94	— 0.07	**—15.79**	330 18 4.90	43.257	— 30.9	**37.6**	10 35 21.08	—64.50	+ 9 16 13.1	....
43	α	Bootis...........	11	11 23.77	— 0.15	—15.66	340 44 4.72	42.259	— 18.9	37.4	14 11	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
26 9 9	29.91	89.0	87.4
10 6	29.90	90.0	88.9
27 10 25	29.885	90.5	89.4
11 47	29.87	92.0	91.1
13 1	29.85	92.0	90.9
13 52	29.85	89.0	87.4
7 18	29.84	79.5	77.9
8 25	29.84	81.5	79.9
9 39	29.84	83.0	81.6
28 10 28	29.84	84.7	82.9
14 50	29.805	84.0	82.7
17 49	29.80	80.5	78.9
18 37	29.80	79.5	78.1
19 11	29.80	79.0	77.9
7 18	29.88	81.0	79.1
8 6	29.88	83.0	81.4
29 7 10	29.96	80.2	78.5
7 44	29.96	81.8	79.7
9 52	29.98	85.6	84.2
30 10 36	29.98	86.2	84.8
14 5	29.94	87.1	86.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 17, 41.	Bisections at I, II, III.
5, 18, 42.	Bisections at V, VI, VII.
11.	Bisections at VI, VII.
20.	Bisections at I, II.
25.	Bisections at c_1, c_2, c_3, c_4, c_5.
28.	Bisections at c_5, c_4, c_3, c_2, c_1.
31, 37.	Bisections at I, VII.
32, 38.	Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	″	′ ″	″	′ ″
2	+ 3.1	....	+ 0.3	+ 3.4
4	+ 4.2	—15 51.3	...	—15 47.1
5	+ 4.2	+15 51.3	...	+15 55.5
12	+ 5.7	+ 15.5	...	+ 21.2
16	+ 3.1	....	+ 0.2	+ 3.3
17	+ 4.3	+15 52.0	...	+15 56.3
18	+ 4.2	—15 52.1	...	—15 47.9
31	+ 5.6	— 15.3	+ 0.1	— 9.6
32	+ 5.6	+ 15.3	...	+ 20.9
37	+ 5.6	+ 14.9	...	+ 20.5
38	+ 5.6	— 14.9	0.0	9.3
40	+ 3.1	....	+ 0.2	+ 3.3
41	+ 4.4	+15 53.1	...	+15 57.5
42	+ 4.3	—15 53.1	...	—15 48.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Moon I	11	24 8.70	+ 0.04	**—15.71**	303 32	......	....	....	14 23 53.03	+64.35	.. ..	....
2	ρ Bootis	11	27 48.91	— 0.18	—15.71	351 50 4.48	43.329	- 7.7	37.3	14 27	.....	.. ..	....
3	α^2 Libræ	9	45 39.24	+ 0.03	—15.77	305 24 4.18	45.699	—1 15.8	37.9	14 45	.....	.. ..	....
4	μ Herculis	11	42 51.20	— 0.13	[—15.56]	348 48 4.22	44.726	— 10.8	[37.1]	17 42	.....	.. ..	....
5	θ Herculis	11	53 8.03	0.16	[—15.79]	358 16 3.02	47.804	- 1.6	[37.7]	17 52	.....	.. ..	....
6	δ Ursæ Minoris	10	4 37.67	0.26	[—15.10]	47 36 5.65	47.669	+1 0.1	[39.1]	18 4	.....	.. ..	....
7	51 H. Cephei S. P.	10	54 14.40	— 1.04	[—17.05]	53 48 5.12	43.379	+1 15.1	[38.4]	6 53	.....	.. ..	....
8	ι Lyræ	11	4 3.04	- 0.15	[—15.67]	356 58 5.62	44.121	- 2.9	[37.9]	19 3	.....	.. ..	....
	August 30, Ei.												
9	δ Geminorum	11	14 27.23	— 0.09	—15.41	343 12 4.78	41.368	— 16.6	37.1	7 14	.....	.. ..	....
10	β Canis Minoris	11	22 1.38	— 0.06	—15.28	329 30 5.00	46.930	— 32.4	37.3	7 21	.....	.. ..	....
11	α^2 Geminorum	11	28 31.53	— 0.10	—15.51	353 8 3.68	42.225	— 6.6	36.8	7 28	.....	.. ..	....
12	Venus II, S.	11	36 35.64	— 0.08	**—15.39**	338 42 5.22	46.830	— 21.4	**36.7**	7 36 20.17	— 1.04	+17 41 33.1	....
13	Venus N.	11	.. ..	....	.....	338 42 5.22	48.328	— 21.4	**36.7**	.. ..	.....	+17 42 2.1	....
14	β Geminorum	11	39 29.97	— 0.10	—15.45	349 16 4.12	47.412	— 10.4	36.6	7 39	.....	.. ..	....
15	α Lyncis	11	15 15.57	— 0.16	—15.44	355 50 6.08	43.205	— 3.9	36.2	9 14	.....	.. ..	....
16	Mercury II, C.	11	53 42.28	— 0.14	**—15.36**	335 24 5.45	47.818	— 24.9	**36.3**	9 53 26.78	— 0.20	+14 23 49.3	....
17	α Leonis	5	3 20.04	— 0.14	—15.20	333 28 4.80	45.830	— 27.1	35.6	10 3	.....	.. ..	....
	August 31, Ei.												
18	Sun I, S.	11	37 5.80	— 0.14	**—15.35**	329 24 4.80	45.218	— 32.1	**36.2**	10 36 50.31	+64.37	+ 8 22 52.5	....
19	Sun II, N	11	39 14.54	— 0.14	**—15.35**	329 56 4.75	44.513	— 31.4	**36.2**	10 38 59.05	—64.37	+ 8 54 37.8	....
20	γ Ursæ Majoris	11	48 50.79	- 0.24	[—15.30]	15 16 5.38	42.854	+ 14.8	[36.8]	11 48	.....	.. ..	....
21	α Canum Venat.	11	51 38.05	— 0.22	—15.43	359 52 4.28	45.315	— 0.1	35.6	12 51	.....	.. ..	....
22	α Virginis	11	20 13.04	— 0.05	—15.30	310 24 4.62	42.299	—1 3.2	35.2	13 19	.....	.. ..	....
23	η Ursæ Majoris	11	43 52.43	— 0.24	[—15.25]	10 48 4.50	48.918	+ 10.4	[37.0]	13 43	.....	.. ..	....
24	η Bootis	11	50 12.80	— 0.17	—15.28	339 54 4.50	47.709	— 19.6	36.1	13 49	.....	.. ..	....
25	α Bootis	11	11 23.34	— 0.18	—15.21	340 43 57.12	42.586	— 18.8	36.3	14 11	.....	.. ..	....
26	β Ursæ Minoris	9	51 12.30	— 0.20	[—15.14]	35 34 5.75	45.035	+ 38.7	[38.0]	14 50	.....	.. ..	....
27	γ Scorpii	11	58 31.29	+ 0.04	—15.33	296 10 3.10	41.818	—1 49.0	36.5	14 58	.....	.. ..	....
28	β Libræ	11	11 55.64	— 0.06	—15.25	312 0 3.12	47.310	— 59.7	35.7	15 11	.....	.. ..	....
29	Moon I, N.	11	15 24.35	+ 0.01	**—15.34**	301 4 4.50	46.505	—1 29.0	**36.1**	15 15 9.02	+66.03	—19 57 40.6	....
30	δ Scorpii	11	54 43.90	+ 0.02	—15.39	298 41 55.92	45.309	—1 38.0	36.7	15 54	.....	.. ..	....
31	β^1 Scorpii	11	59 56.01	0.00	—15.41	301 30 2.02	45.481	—1 27.6	35.5	15 59	.....	.. ..	....
	August 31, B.												
32	α^2 Geminorum	11	28 31.20	— 0.13	—15.12	353 8 4.55	42.185	— 6.6	37.0	7 28	.....	.. ..	....
33	α Canis Minoris	11	34 21.42	— 0.05	—15.05	326 30 4.48	45.261	— 36.4	37.5	7 34	.....	.. ..	....
34	Venus II, S.	11	40 0.52	— 0.09	**—15.04**	338 42 5.30	40.815	— 21.5	**37.2**	7 39 45.39	— 1.03	+17 39 37.7	....
35	Venus N.	..	.. ...	....	.....	338 42 5.30	42.275	— 21.4	**37.2**	.. ..	.....	+17 40 5.4	....
36	α Hydræ	11	22 57.30	— 0.03	—15.11	312 48	......	....	....	9 22	.....	.. ..	....
37	θ Ursæ Majoris	8	26 27.51	— 0.21	[—15.10]	13 8 5.65	45.672	+ 12.8	[37.7]	9 26	.....	.. ..	....
38	Mercury C, C.	11	1 4.98	— 0.15	**—14.98**	334 52 4.78	43.124	— 25.5	**36.7**	10 0 49.85	— 0.02	+13 50 17.6	....
39	γ^1 Leonis	4	14 44.47	— 0.18	—14.79	341 22	......	....	....	10 14	.....	.. ..	....
	September 1, B.												
40	Sun I	11	40 43.27	— 0.16	**—14.97**	329 18	......	....	....	10 40 28.14	+64.40	.. ..	....
41	α Ursæ Majoris	11	57 49.53	— 0.31	[—14.92]	23 18 6.52	43.500	+ 23.5	[38.4]	10 57	.....	.. ..	....
42	α Canum Venat.	11	51 37.71	— 0.27	—15.05	359 52 4.15	45.284	— 0.1	35.7	12 51	.....	.. ..	....
43	ε Virginis	11	57 28.88	— 0.19	—14.83	332 30 3.62	47.515	— 28.1	35.9	12 57	.....	.. ..	....
44	α Bootis	11	11 22.99	— 0.23	—14.83	340 44 4.10	42.210	— 18.9	36.0	14 11	.....	.. ..	....
45	ε Serpentis	11	46 7.49	— 0.17	—14.75	325 48 4.90	45.068	— 36.8	35.4	15 45	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
30 14 49	29.93	86.6	86.1
17 35	29.94	82.0	81.0
18 15	29.955	80.9	79.9
19 9	29.96	79.1	78.0
7 11	30.05	79.0	77.1
7 44	30.07	80.5	79.0
9 10	30.08	85.0	83.0
10 9	30.07	86.5	85.5
31 10 39	30.06	87.1	86.3
11 43	30.06	88.5	88.2
12 49	30.04	91.5	89.4
13 49	30.03	90.5	90.0
14 19	30.02	90.5	89.8
14 56	30.02	89.8	89.4
16 5	30.02	88.5	88.6
7 23	30.13	80.8	79.0
7 47	30.13	82.1	80.2
9 12	30.155	86.4	85.0
9 47	30.155	87.8	86.8
1 10 41	30.15	89.5	88.2
12 0	30.13	89.2	87.8
12 48	30.115	89.8	88.2
13 33	30.115	89.6	88.2
15 42	30.11	88.0	87.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

6.	Bisections at c_1, c_2, c_4, c_5.
7.	Bisections at c_5, c_4, c_3, c_2, c_1.
9, 10, 14, 15, 21, 27, 45.	Bisections at II, VI, VII.
12, 35.	Bisections at I, VII.
13, 34.	Bisections at II, VI.
17.	Bisections at I, II, VI.
18.	Bisections at I, II, III.
19.	Bisections at V, VI, VII.
26.	Bisections at II, III, V, VI.
29.	Bisections at II, III, IV, V, VI.
37.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
12	+ 5.5	+ 14.5	...	+ 20.0
13	+ 5.5	— 14.5	0.0	— 9.0
16	+ 3.0	....	+ 0.2	+ 3.2
18	+ 4.4	+15 52.6	...	+15 57.0
19	+ 4.4	—15 52.7	...	—15 48.3
29	+46 56.0	—15 1.1	...	+31 54.9
34	+ 5.5	+ 13.9	...	+ 19.4
35	+ 5.5	— 13.9	+ 0.1	— 8.3
38	+ 3.1	....	+ 0.1	+ 3.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Scorpii	11	54 43.46	— 0.01	—14.94	298 42 2.72	44.990	—1 38.7	36.6	15 54	.....	.. ..	....
2	β¹ Scorpii	11	59 55.59	— 0.04	—14.97	301 30 2.80	45.481	—1 28.2	35.6	15 59	.....	.. ..	....
3	Moon I, N.......	11	9 12.65	— 0.02	**—14.88**	299 18 2.25	45.047	—1 36.4	**36.0**	16 8 57.75	+67.68	—21 44 18.2	....
4	α Scorpii	11	23 35.02	+ 0.02	—14.88	294 50 2.70	44.776	—1 56.7	36.3	16 23	.....	.. ..	....
5	ζ Ophiuchi	11	31 57.37	— 0.09	—14.86	310 40 3.08	44.592	—1 3.2	36.2	16 31	.....	.. ..	....
6	δ Ursæ Minoris	11	4 36.54	— 0.37	[—14.17]	47 36 5.50	47.620	+1 0.3	[37.9]	18 4	.....	.. ..	....
7	β Lyræ...........	11	46 41.62	— 0.25	—15.00	354 16 3.00	44.895	— 5.5	[36.7]	18 46	.....	.. ..	....
8	51 H. Cephei S. P ...	9	54 14.01	— 0.47	[—16.32]	53 48 4.88	43.399	+1 15.4	[38.4]	6 53	.....	.. ..	....
9	ι Lyræ...........	11	4 2.34	— 0.26	—14.90	356 58 3.90	44.140	— 2.9	[36.2]	19 3	.....	.. ..	....
	September 2, Hd.												
10	ζ Ophiuchi.	11	31 57.21	— 0.06	—14.75	310 40 3.52	44.651	—1 3.4	37.4	16 31	.....	.. ..	....
11	κ Ophiuchi	11	53 13.85	— 0.16	—14.66	330 34 3.95	42.438	— 30.8	37.8	16 52	.....	.. ..	....
12	Moon I, N.......	11	5 26.45	+ 0.02	**—14.76**	298 36 3.55	46.975	—1 39.9	**37.8**	17 5 11.71	+69.08	—22 25 45.1	....
13	θ Ophiuchi	11	16 10.75	+ 0.04	—14.79	296 8 3.00	46.764	—1 50.9	38.0	17 15	.....	.. ..	....
14	b Ophiuchi	11	20 34.49	+ 0.03	—14.83	296 58 2.78	43.414	—1 47.1	37.8	17 20	.....	.. ..	....
	September 3, Ei.												
15	θ Ophiuchi	11	16 10.34	+ 0.04	—14.40	296 8 3.20	46.636	—1 50.4	36.2	17 15	.....	.. ..	....
16	b Ophiuchi	11	20 34.09	+ 0.03	—14.45	296 56 2.95	49.562	—1 46.6	36.7	17 20	.....	.. ..	....
17	Moon I, N	11	3 35.96	+ 0.02	**—14.43**	299 10 2.82	43.292	—1 37.6	**36.8**	18 3 21.55	+70.03	—21 52 51.8	....
18	Moon S	..	.. ..	....	.....	298 38 3.28	45.048	—1 39.7	**36.8**	.. ..	.....	—22 24 22.4	....
19	η Serpentis	11	16 26.27	— 0.09	—14.43	318 6 3.22	45.688	— 49.1	36.8	18 16	.....	.. ..	....
20	λ Sagittarii	11	22 6.69	+ 0.04	—14.46	295 34 2.50	45.295	—1 53.8	37.7	18 21	.....	.. ..	....
	September 3. Hd.												
21	α Canis Minoris....	11	34 20.77	— 0.03	—14.35	326 30 3.92	45.268	— 36.4	37.1	7 34	.....	.. ..	....
22	β Geminorum	11	39 29.09	— 0.10	—14.47	349 16 4.12	47.356	— 10.4	36.6	7 39	.....	.. ..	....
23	Venus II, S	11	50 33.28	— 0.07	**—14.44**	338 34 4.28	40.675	— 21.6	**36.8**	7 50 18.77	— 0.98	+17 31 34.2	....
24	Venus N	..	.. ..	....	.....	338 34 4.28	42.100	— 21.6	**36.8**	.. ..	.....	+17 32 1.4	....
25	α Lyncis	11	15 14.65	— 0.12	—14.49	355 50 3.48	43.307	— 3.9	36.2	9 15	.....	.. ..	....
26	θ Ursæ Majoris	11	26 26.93	— 0.13	[—14.55]	13 8 4.92	45.569	+ 11.9	[36.5]	9 26	.....	.. ..	....
	September 4, Hd.												
27	Sun II...........	11	53 42.94	— 0.04	**—14.38**	328 12	......	....	....	10 53 28.52	—64.23	.. ..	....
28	β Corvi...........	11	29 24.35	+ 0.14	—14.51	298 12 3.28	43.510	—1 40.8	36.9	12 29	.....	.. ..	....
29	α Canum Venat....	10	51 36.92	— 0.12	—14.45	359 52 3.12	45.432	— 0.1	36.5	12 51	.....	.. ..	....
30	ε Virginis	11	57 28.06	— 0.05	—14.17	332 30 3.98	47.554	— 28.2	37.0	12 57	.....	.. ..	....
31	η Ursæ Majoris	11	43 51.44	— 0.13	[—14.45]	10 48 3.52	49.110	+ 10.4	[38.9]	13 43	.....	.. ..	....
32	η Bootis	11	50 11.63	— 0.08	—14.25	339 54 4.98	47.750	— 19.8	36.9	13 49	.....	.. ..	....
33	α Bootis	11	11 22.24	— 0.08	—14.27	340 44 4.40	42.232	— 18.9	37.0	14 11	.....	.. ..	....
34	δ Ursæ Minoris	11	4 34.92	+ 0.52	[—14.76]	47 36 4.98	47.690	+1 0.4	[38.5]	18 4	.....	.. ..	....
35	η Serpentis	11	16 26.07	— 0.07	—14.26	318 6 3.82	45.708	— 49.3	37.4	18 16	.....	.. ..	....
36	λ Sagittarii	11	22 6.54	+ 0.09	—14.37	295 34 1.95	45.324	—1 54.2	38.0	18 21	.....	.. ..	....
37	51 H. Cephei S. P....	11	54 13.90	— 1.55	[—13.63]	53 48 3.95	43.462	+1 15.4	[38.1]	6 53	.....	.. ..	....
38	Moon I, S	11	2 55.22	+ 0.04	**—14.29**	300 30 3.25	44.142	—1 33.2	**37.9**	19 2 40.97	+70.42	—20 32 33.2	....
39	d Sagittarii........	11	12 5.69	+ 0.03	—14.34	301 54 2.85	46.691	—1 28.2	37.9	19 11	.....	.. ..	....
40	δ Aquilæ	11	20 45.55	— 0.10	—14.21	323 56 3.75	46.935	— 40.1	38.3	19 20	.....	.. ..	....
	September 4, B.												
41	α Canis Minoris....	8	34 20.28	— 0.08	—13.79	326 30 4.65	45.300	— 36.6	36.6	7 34	.....	.. ..	....
42	β Geminorum	11	39 28.57	— 0.14	—13.88	349 16 4.80	47.295	— 10.4	36.0	7 39	.....	.. ..	....
43	Venus S..... ...	..	.. ..	....	.....	338 30 4.12	42.199	— 21.8	**36.3**	7 53	.....	+17 28 3.3	....
44	α Hydræ	11	22 56.12	— 0.02	—13.88	312 48 5.05	44.999	— 59.0	36.1	9 22	.....	.. ..	....
45	Mercury C, C	11	30 44.72	— 0.10	**—13.82**	332 18 5.95	45.381	— 28.6	**35.6**	10 30 30.80	— 0.01	+11 17 0.0	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
1 16 35	30.105	86.0	85.2
17 59	30.12	82.8	81.7
18 41	30.125	81.3	79.8
19 20	30.13	80.3	78.6
2 16 27	30.07	84.5	83.3
17 27	30.07	82.0	80.9
3 17 11	29.98	84.0	82.3
18 27	29.98	80.8	79.5
7 37	30.08	80.2	79.1
8 55	30.08	83.9	82.6
9 32	30.08	83.2	82.1
4 12 40	30.04	86.8	85.8
13 56	30.025	87.2	86.6
14 17	30.025	87.5	86.4
17 50	30.04	80.2	79.0
18 27	30.045	78.8	78.8
19 25	30.05	77.6	77.5
7 38	30.075	78.8	76.6
8 44	30.075	81.5	79.8
9 25	30.075	83.3	82.0
10 33	30.065	86.2	84.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 12, 38.	Bisections at II, III, IV, V, VI.
6, 34.	Bisections at c_1, c_2, c_3, c_4, c_5.
8, 37.	Bisections at c_5, c_4, c_3, c_2, c_1.
17.	Bisections at I, II, III.
18.	Bisections at V, VI, VII.
20, 25, 32.	Bisections at II, VI, VII.
23.	Bisections at I, VII.
24.	Bisections at II, VI.
28, 29, 31, 41.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+48 21.7	—15 11.8	...	+33 9.9
12	+49 23.6	—15 24.9	...	+33 58.7
17	+49 56.5	—15 37.5	...	+34 19.0
18	+50 12.0	+15 37.5	+ 0.1	+65 49.6
23	+ 5.3	+ 13.6	...	+ 18.9
24	+ 5.3	— 13.6	0.0	— 8.3
38	+50 7.8	+15 56.4	...	+66 4.2
43	+ 5.2	+ 13.9	...	+ 19.1
45	+ 3.2	....	+ 0.1	+ 3.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	September 5, B.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N	11	55 10.86	— 0.09	**—13.81**	328 6 3.52	45.182	— 33.8	**35.5**	10 54 56.96	+64.25	+ 7 4 49.6	....
2	Sun II, S........	11	57 19.35	— 0.09	**—13.81**	327 34 3.68	45.930	— 34.5	**35.5**	10 57 5.45	—64.24	+ 6 33 1.6	....
3	γ Ursæ Majoris	7	48 49.38	— 0.23	[—13.92]	15 16 5.42	42.888	+ 14.9	[37.3]	11 48	.....	.. ..	....
4	α Canum Venat....	11	51 36.51	— 0.27	—13.89	359 52 2.85	45.288	— 0.1	35.2	12 51	.....	.. ..	....
5	ε Virginis	11	57 27.66	— 0.19	—13.64	332 30 4.15	47.414	— 28.0	34.8	12 57	.....	.. ..	....
6	α Virginis	11	20 11.64	— 0.09	—13.91	310 24 3.32	42.318	—1 3.2	34.0	13 19	.....	.. ..	....
7	η Bootis...........	11	50 11.23	— 0.25	—13.69	339 54 4.15	47.685	— 19.7	35.5	13 49	.....	.. ..	....
8	β Aquilæ..........	11	50 41.74	— 0.17	—13.60	327 12 3.82	42.021	— 35.4	36.7	19 50	.....	.. ..	....
9	γ Sagittæ	11	54 36.16	— 0.21	—13.66	340 14 3.30	47.078	— 19.7	36.8	19 54	.....	.. ..	....
10	Moon I, S	11	2 35.17	— 0.06	**—13.66**	303 40 2.55	44.910	—1 22.2	**36.5**	20 2 21.45	+70.34	—17 22 6.8	....
11	θ Aquilæ..........	11	6 26.62	— 0.14	—13.66	319 54 4.02	47.310	— 46.2	36.1	20 6	.....	.. ..	....
12	π Capricorni.......	11	21 54.16	— 0.05	—13.73	302 30 2.55	45.251	—1 26.0	36.5	20 21	.....	.. ..	....
	September 5, Ei.												
13	β Canis Minoris....	11	21 59.82	— 0.16	—13.48	329 30 4.00	46.899	— 32.3	36.3	7 21	.....	.. ..	....
14	α² Geminorum	11	28 30.05	— 0.24	—13.72	353 8 2.95	42.199	— 6.6	36.0	7 28	.....	.. ..	....
15	α Canis Minoris....	11	34 20.19	— 0.15	—13.60	326 30 3.38	45.268	— 36.2	36.8	7 34	.....	.. ..	....
16	Venus II, N	11	57 48.85	— 0.20	**—13.62**	338 26 4.65	43.950	— 21.6	**35.7**	7 57 35.03	— 0.96	+17 24 38.0	....
17	Venus S.........	11	.. ..	....	.....	338 26 4.65	42.518	— 21.6	**35.7**	.. ..	.....	+17 24 10.8	....
18	15 Argus (ρ)	8	3 32.41	— 0.02	—13.73	297 2 3.30	43.405	—1 46.4	35.5	8 3	.....	.. ..	....
19	α Hydræ	11	22 55.96	— 0.08	—13.64	312 48 3.20	44.986	— 58.5	34.5	9 22	.....	.. ..	....
20	θ Ursæ Majoris	5	26 26.22	— 0.28	[—13.64]	13 8 6.25	45.414	+ 12.7	[35.7]	9 26	.....	.. ..	....
21	ε Leonis	11	40 26.48	— 0.22	—13.64	345 14 4.40	47.378	— 14.2	35.2	9 40	.....	.. ..	....
22	α Leonis	11	3 18.38	— 0.18	—13.43	333 28 3.70	45.879	— 26.9	35.2	10 3	.....	.. ..	....
23	Mercury II, C ...	11	38 5.82	— 0.17	**—13.58**	331 36 3.05	44.946	— 29.1	**35.3**	10 37 52.07	— 0.18	+10 34 48.5	....
	September 6, Ei.												
24	Sun I, N	11	58 47.15	— 0.16	**—13.59**	327 44 3.22	44.180	— 34.0	**35.3**	10 58 33.40	+64.17	+ 6 42 30.1	....
25	Sun II, S........	11	0 55.50	— 0.16	**—13.59**	327 12 3.62	44.918	— 34.7	**35.3**	11 0 41.75	—64.18	+ 6 10 42.1	....
26	α Canum Venat....	11	51 36.35	— 0.26	—13.75	359 52 2.85	45.264	— 0.1	35.0	12 51	.....	.. ..	....
27	α Virginis.........	8	20 11.38	— 0.07	—13.67	310 24 3.45	42.332	1 2.6	34.5	13 19	.....	.. ..	....
28	ζ Virginis.........	8	29 51.66	— 0.12	—13.60	320 56	......	....	....	13 29	.....	.. ..	....
29	η Ursæ Majoris	11	43 50.67	0.27	[—13.57]	10 48 3.35	48.882	— 10.3	[36.3]	13 43	.....	.. ..	....
30	η Bootis...........	11	50 11.00	— 0.20	13.52	339 54 4.42	47.636	— 19.4	35.3	13 49	.....	.. ..	....
31	α Bootis...........	11	11 21.66	— 0.20	—13.60	340 44 3.55	42.055	— 18.6	34.8	14 11	.....	.. ..	....
32	δ Ursæ Minoris....	11	4 33.18	+ 0.39	[—13.74]	47 36 5.30	47 622	+ 59.4	[36.4]	18 4	.....	.. ..	....
33	η Serpentis........	11	16 25.37	— 0.17	—13.49	318 6 3.98	45.572	— 48.5	[35.7]	18 16	.....	.. ..	....
34	51 H. Cephei S. P...	11	54 15.38	— 1.52	[—14.15]	53 48 5.60	43.400	+1 14.2	[37.1]	6 53	.....	.. ..	....
35	ψ Capricorni.......	11	40 28.75	— 0.03	—13.44	295 26 2.42	42.176	—1 54.1	36.0	20 40	.....	.. ..	....
36	μ Aquarii..........	11	47 33.61	— 0.14	—13.47	311 40 3.48	46.785	—1 1.2	36.9	20 47	.....	.. ..	....
37	12 Year Cat. 1879.	11	52 26.56	— 0.16	[—13.68]	41 10 5.45	47.995	+ 47.9	[36.7]	20 52	.....	.. ..	....
38	Moon I, S	11	2 0.96	— 0.12	**—13.44**	308 0 18.08	46.395	—1 9.7	**37.2**	21 1 47.40	+70.03	—13 1 11.0	....
39	ζ Capricorni.......	11	21 15.74	— 0.06	—13.46	298 16 5.20	32.639	—1 41.4	37.7	21 21	.....	.. ..	....
40	β Aquarii..........	11	26 35.60	— 0.16	—13.37	315 4 3.62	36.729	— 54.6	38.0	21 26	.....	.. ..	....
	September 7, Hd.												
41	ξ Aquarii..........	11	32 43.58	— 0.01	—13.42	312 44 3.10	44.914	— 59.4	38.0	21 32	.....	.. ..	....
42	ε Pegasi...........	11	39 34.05	— 0.09	—13.28	330 26 3.35	47.160	— 31.1	38.4	21 39	.....	.. ..	....
43	μ Capricorni.......	11	48 8.62	+ 0.03	—13.46	307 0 2.40	48.245	—1 12.7	39.7	21 47	.....	.. ..	....
44	Moon I, S	11	0 59.99	— 0.01	**—13.40**	313 16 4.00	46.365	— 58.3	**38.7**	22 0 46.58	+69.73	— 7 45 15.8	....
45	θ Aquarii..........	11	11 51.32	— 0.01	—13.44	312 46 2.75	42.840	— 59.4	38.8	22 11	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
5 10 57	30.06	86.8	85.8
11 42	30.04	87.6	87.2
12 48	30.015	90.3	88.6
13 25	30.00	90.0	88.9
13 54	29.995	89.3	88.1
19 34	29.96	80.2	79.0
20 26	29.95	78.9	77.5
7 18	29.95	80.0	78.5
8 19	29.95	83.0	82.0
9 19	29.95	86.0	84.2
10 9	29.94	88.0	86.9
10 43	29.92	88.0	87.6
6 11 1	29.92	89.0	88.0
12 48	29.87	90.5	89.9
13 47	29.85	92.5	92.1
14 17	29.85	93.0	93.0
17 57	29.80	85.5	84.0
19 4	29.81	83.0	82.1
20 37	29.82	80.0	79.0
21 32	29.82	79.5	77.9
7 21 37	29 91	78.7	77.0
22 18	29.91	78.1	76.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 24.	Bisections at I, II, III.
2, 25.	Bisections at V, VI, VII.
3, 11.	Bisections at VI, VII.
10, 38, 44.	Bisections at II, III, IV, V, VI.
16.	Bisections at I, VII.
17.	Bisections at II, VI.
20.	Bisections at III, V, VI, VII.
27.	Bisections at I, VI, VII.
31.	Bisections at I, II.
32, 37	Bisections at c_1, c_2, c_3, c_4, c_5.
34.	Bisections at c_5, c_4, c_3, c_2, c_1.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 4.6	—15 54.0	...	—15 49.4
2	+ 4.7	+15 53.9	...	+15 58.6
10	+49 13.5	+16 12.6	...	+65 26.1
16	+ 5.2	— 13.7	+ 0.2	— 8.3
17	+ 5.2	+ 13.7	...	+ 18.9
23	+ 3.2	....	+ 0.1	+ 3.3
24	+ 4.7	—15 54.0	...	—15 49.3
25	+ 4.7	+15 54.0	...	+15 58.7
38	+47 16.0	+16 27.0	...	+63 43.0
44	+44 7.9	+16 38.0	...	+60 45.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	September 16, K.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	6 B. Ursæ Minoris s. p.	5	13 37.04	+10.66	[-11.70]	52 44	......	....	....	12 13	.....	.. ..	....
2	δ Piscium	10	43 45.60	− 0.30	[−11.27]	328 4 3.48	44.892	− 34.5	[25.5]	0 43	.....	.. ..	....
3	ε Piscium	11	58 1.10	− 0.30	[−11.25]	328 22 4.12	46.901	− 34.1	[26.4]	0 57	.....	.. ..	....
4	α Ursæ Minoris	5	24 23.20	−15.87	[− 6.38]	49 46	......	....	....	1 24	.....	.. ..	....
	September 17, B.												
5	α Canis Minoris	3	34 18.50	− 0.31	−11.45	326 30 7.92	44.792	− 37.7	34.4	7 34	.....	.. ..	....
6	β Geminorum	6	39 26.70	− 0.38	−11.41	349 16 8.25	46.914	− 10.7	34.8	7 39	.....	.. ..	....
7	Moon II	11	52 56.38	− 0.35	**−11.42**	337 36	......	....	....	7 52 44.61	−65.54	.. ..	....
8	β Cancri	11	11 19.78	− 0.32	−11.34	330 30 8.68	46.784	− 32.2	33.9	8 11	.....	.. ..	....
9	ε Hydræ	11	41 42.91	− 0.32	−11.35	327 48 7.88	45.466	− 35.7	34.1	8 41	.....	.. ..	....
10	Venus II, S	11	44 24.34	− 0.34	**−11.42**	337 4 8.45	32.689	− 24.0	**34.3**	8 44 12.58	− 0.83	+16 2 21.4	....
11	α Lyncis	11	15 12.21	− 0.41	−11.47	355 50	......	....	....	9 15	.....	.. ..	....
12	α Hydræ	11	22 54.24	− 0.28	−11.52	312 48 8.12	44.792	−1 1.2	34.3	9 22	.....	.. ..	....
13	θ Ursæ Majoris	11	26 24.65	− 0.50	[−11.54]	13 8 9.15	45.005	+ 13.3	[36.0]	9 26	.....	.. ..	....
	September 18, K.												
14	6 B. Ursæ Minoris s. p.	5	13 44.82	+ 4.00	[−13.12]	52 44	......	....	....	12 13	.....	.. ..	....
15	ε Piscium	11	58 1.13	− 0.31	[−11.24]	328 22 8.72	47.388	− 35.3	[37.3]	0 57	.....	.. ..	....
16	α Ursæ Minoris	5	24 19.98	− 6.38	[-11.64]	49 46	......	....	....	1 24	.....	.. ..	....
	September 18, Hh.												
17	Moon II	11	43 32.85	− 0.29	**−11.71**	334 8	......	....	....	8 43 20.85	−63.77	.. ..	....
18	Venus II, S	11	48 28.36	− 0.29	**−11.71**	336 50 40.20	44.147	− 24.5	**35.7**	8 48 16.36	− 0.82	+15 52 28.6	....
19	α Lyncis	11	15 12.51	− 0.34	−11.81	355 50 7.65	42.910	− 4.1	35.8	9 15	.....	.. ..	....
20	α Hydræ	9	22 54.47	− 0.24	−11.77	312 48 9.08	44.971	−1 1.9	36.2	9 22	.....	.. ..	....
21	α Leonis	11	3 16.86	− 0.29	−11.62	333 28 8.92	45.661	− 28.6	35.6	10 3	.....	.. ..	....
22	γ¹ Leonis	11	14 41.72	− 0.31	−11.68	341 22 8.95	43.445	− 19.3	34.8	10 14	.....	.. ..	....
23	α Ursæ Majoris	11	57 46.90	− 0.54	[−11.88]	23 18 10.35	42.780	+ 24.7	[35.7]	10 57	.....	.. ..	....
	September 19, Hh.												
24	Sun I, N	11	45 27.81	− 0.29	**−11.75**	322 42 9.60	47.212	− 43.1	**35.7**	11 45 15.77	+64.02	+ 1 44 40.7	....
25	Sun II, S	11	47 35.85	− 0.29	**−11.75**	322 10 9.65	47.812	− 44.0	**35.7**	11 47 23.81	−64.02	+ 1 12 48.3	....
26	Mercury C.	11	6 53.25	− 0.30	**−11.75**	321 32	......	....	....	12 6 41.20	0.00	.. ..	....
27	α Virginis	11	20 9.67	− 0.30	−11.81	310 24 8.68	42.418	−1 6.4	37.3	13 19	.....	.. ..	....
28	η Bootis	10	50 9.25	− 0.36	−11.73	339 54 8.28	47.460	− 20.6	35.8	13 49	.....	.. ..	....
29	α Bootis	11	11 19.88	0.37	−11.79	340 44 8.02	41.910	− 19.7	35.1	14 11	.....	.. ..	....
30	ε Bootis	11	40 50.96	− 0.40	−11.77	348 30 6.35	46.718	− 11.4	34.7	14 40	.....	.. ..	....
	September 19, K.												
31	6 B. Ursæ Minoris s. p.	4	13 44.45	+ 3.71	[−12.56]	52 44	......	....	....	12 13	.....	.. ..	....
32	δ Piscium	11	43 46.13	− 0.28	[−11.78]	328 4 9.35	45.399	− 35.8	[37.7]	0 43	.....	.. ..	....
33	ε Piscium	11	58 1.62	− 0.28	[−11.75]	328 22 8.75	47.435	− 35.4	[38.0]	0 57	.....	.. ..	....
34	α Ursæ Minoris	5	24 21.08	− 5.86	[−12.86]	49 46	......	....	....	1 24	.....	.. ..	....
	September 19, Hd.												
35	ε Hydræ	11	41 43.62	− 0.30	−12.03	327 48 8.50	45.620	− 35.7	36.0	8 41	.....	.. ..	....
36	Venus II, S	11	52 33.98	− 0.31	**−12.02**	336 40 9.52	44.778	− 24.4	**35.4**	8 52 21.65	− 0.81	+15 42 11.1	....
37	α Leonis	11	3 17.33	− 0.31	−12.05	333 28 8.82	45.730	− 28.1	35.5	10 3	.....	.. ..	....
38	γ¹ Leonis	11	14 42.22	− 0.33	−12.15	341 22 9.62	43.402	− 18.9	35.1	10 14	.....	.. ..	....
	September 20, Hd.												
39	Sun I, N	11	49 3.71	− 0.30	**−12.18**	322 20 9.50	43.273	− 42.9	**35.4**	11 48 51.23	+64.00	+ 1 21 25.2	....
40	Sun II, S	11	51 11.72	− 0.30	**−12.18**	321 48 8.98	43.630	− 43.7	**35.4**	11 50 59.24	−64.01	+ 0 49 28.5	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
16 0 41	29.635	70.0	68.6
1 21	29.65	68.6	67.2
17 7 38	29.85	60.0	58.1
8 15	29.87	60.1	58.3
8 45	29.88	61.5	59.9
9 30	29.88	62.5	60.7
18 0 41	30.02	59.2	57.8
1 22	30.015	57.8	56.2
8 53	30.14	61.4	57.7
9 27	30.16	62.7	59.2
10 27	30.15	64.5	60.9
11 1	30.14	65.6	62.8
19 11 48	30.135	66.8	63.9
12 10	30.13	66.7	64.3
13 42	30.10	68.9	65.7
14 23	30.09	68.6	66.7
14 50	30.08	68.6	67.6
1 0	30.06	56.8	56.0
1 20	30.06	57.0	56.0
8 36	30.06	63.1	62.7
9 48	30.06	67.0	66.9
10 20	30.05	68.7	68.1
20 11 51	30.030	72.4	72.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 24.	Bisections at I, II.
10, 18, 24, 25, 36, 39, 40.	Z. D. thread A used.
13, 18.	Bisections at II, VI, VII.
25, 37.	Bisections at VI, VII.
39.	Bisections at I, II, III.
40.	Bisections at V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
10	+ 4.8	+ 12.0	...	+ 16.8
18	+ 4.7	+ 11.9	...	+ 16.6
24	+ 5.3	−15 56.2	...	−15 50.9
25	+ 5.4	+15 56.1	...	+16 1.5
36	+ 4.7	+ 11.8	...	+ 16.5
39	+ 5.3	−15 58.3	...	−15 53.0
40	+ 5.4	+15 58.3	...	+16 3.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Mercury C, C.....	11	13 11.65	− 0.29	**−12.20**	320 44 9.78	46.802	− 45.4	**35.4**	12 12 59.16	0.00	− 0 16 45.4	...
2	α Canum Venat....	9	51 35.01	− 0.41	−12. 34	359 52 7.85	44.942	− 0.1	34. 9	12 51	.....	.. ..	....
3	α Virginis.........	11	20 10.20	− 0.28	−12. 36	310 24 8.45	42.222	−1 5.0	34. 8	13 19	.....	.. ..	....
4	η Ursæ Majoris....	11	43 49.40	− 0.47	[−12. 33]	10 48 9.20	48.399	+ 10.7	[36. 5]	13 43	.....	.. ..	....
5	η Bootis...........	11	50 9.64	− 0.35	−12. 13	339 54 9.22	47.358	− 20.2	35. 3	13 49	.....	.. ..	....
6	α Bootis...........	11	11 20.32	− 0.36	−12. 25	340 44 8.68	41.898	− 19.3	36. 0	14 11	.....	.. ..	....
	September 23, Hh.												
7	ε Hydræ..........	11	41 45.18	− 0.33	−13. 47	327 48 8.02	45.876	− 35.7	42. 3	8 41	.....	.. ..	....
8	Venus II, S	11	9 6.93	− 0.35	**−13.52**	335 54 8.28	45.296	− 25:2	**41.9**	9 8 53.06	− 0.77	+14 56 14.1	....
9	α Lyncis..........	6	15 14.52	− 0.40	−13. 65	355 50 8.18	43.118	4.1	41. 1	9 15	.....	.. ..	....
10	α Hydræ..........	11	22 56.43	0.31	−13. 56	312 48 9.58	45.100	−1 0.9	41. 7	9 22	.....	.. ..	....
11	α Leonis..........	11	3 18.81	0.34	−13. 44	333 28 7.65	45.906	− 28.0	41. 8	10 3	.....	.. ..	....
12	γ¹ Leonis..........	11	14 43.71	− 0.36	−13. 54	341 22 8.85	43.679	− 18.9	41. 8	10 14	.....	.. ..	....
	September 24, Hh.												
13	Sun I, N	11	3 27.57	− 0.30	**−13.58**	320 46 4.68	45.455	− 45.4	**40.9**	12 3 13.69	+63.99	− 0 12 4.2	....
14	Sun II, S........	11	5 35.55	0.30	**−13.58**	320 14 4.30	45.618	− 46.2	**40.9**	12 5 21.67	−63.99	0 44 4.8	....
15	Mercury C, C....	11	37 47.59	− 0.30	**−13.60**	317 40 7.90	42.202	− 50.6	**40.8**	12 37 33.69	0.00	− 3 22 24.4	....
16	α Canum Venat....	11	51 36.39	− 0.40	−13. 74	359 52 7.15	45.000	− 0.1	39. 8	12 51	.....	.. ..	....
17	η Bootis...........	11	50 11.00	− 0.36	−13. 51	339 54 8.52	47.551	− 20.3	40. 3	13 49	.....	.. ..	....
18	α Bootis...........	11	11 21.63	− 0.37	−13. 59	340 44 7.72	42.075	− 19.4	40. 3	14 11	.....	.. ..	....
19	ε Bootis...........	11	40 52.75	− 0.40	−13. 62	348 30 8.75	46.794	− 11.2	41. 0	14 40	.....	.. ..	....
	September 24, K.												
20	6 B. Ursæ Minoris s. p.	5	13 48.44	+ 2.40	[−15. 44]	52 44	......	....	....	12 13	.....	.. ..	....
21	δ Piscium.........	11	43 47.99	− 0.36	[−13. 51]	328 4 8.35	45.618	− 35.3	[42. 7]	0 43	.....	.. ..	....
22	ε Piscium.........	11	58 3.59	− 0.36	[−13. 58]	328 22 8.18	47.648	− 34.9	[43. 2]	0 57	.....	.. ..	....
23	α Ursæ Minoris....	5	24 22.94	− 4.28	[−14. 37]	49 46	......	....	....	1 24	.....	.. ..	....
	September 24, B.												
24	Venus II, S......	11	13 17.72	− 0.29	**−13.91**	335 42 8.55	43.268	− 25.4	**41.0**	9 13 3.52	− 0.76	+14 43 36.2	....
25	α Lyncis..........	11	15 14.75	− 0.35	−13. 90	355 50 0.68	43.490	− 4.1	40. 9	9 15	.....	.. ..	....
26	α Hydræ..........	11	22 56.75	− 0.24	−13. 93	312 48 8.42	45.149	−1 0.8	41. 6	9 22	.....	.. ..	...
27	ε Leonis..........	11	40 27.19	− 0.32	−13. 89	345 14 9.00	47.256	− 14.8	41. 1	9 40	.....	.. ..	....
28	μ Leonis..........	10	47 21.36	− 0.32	−14. 06	347 30 7.65	42.738	− 12.4	40. 3	9 47	.....	.. ..	....
29	α Leonis..........	11	3 19.14	− 0.29	−13. 81	333 28 8.20	45.801	− 28.0	40. 4	10 3	.....	.. ..	....
30	α Ursæ Majoris....	11	57 49.14	− 0.49	[−14. 05]	23 18 10.28	42.880	+ 24.2	[40. 5]	10 57	.....	.. ..	....
	September 25, B.												
31	Sun I, S.........	10	7 3.93	− 0.26	**−13.97**	319 50 13.10	46.962	− 46.8	**40.0**	12 6 49.70	+64.08	− 1 7 27.6	....
32	Sun II, N	11	9 12.10	− 0.26	**−13.97**	320 22 10.25	47.085	− 45.9	**40.0**	12 8 57.87	−64.09	− 0 35 29.3	....
33	Mercury C, C....	11	43 48.34	− 0.25	**−13.98**	316 54 7.98	43.859	− 51.9	**39.7**	12 43 34.11	0.00	− 4 7 52.8	....
34	α Canum Venat....	11	51 36.72	− 0.36	−14. 11	359 52 7.65	44.944	− 0.1	39. 5	12 51	.....	.. ..	....
35	ε Virginis.........	11	57 27.99	− 0.28	−13. 94	332 30 7.15	47.386	− 28.8	39. 6	12 57	.....	.. ..	....
36	α Virginis.........	11	20 11.72	− 0.23	−13. 94	310 24 7.02	42.478	−1 5.0	39. 5	13 19	.....	.. ..	....
37	η Bootis...........	11	50 11.39	− 0.30	−13. 97	339 54 8.02	47.528	− 20.2	39. 6	13 49	.....	.. ..	....
	September 25, Hh.												
38	Venus II, S......	11	17 29.03	− 0.27	**−14.32**	335 28 8.22	46.109	− 25.5	**41.1**	9 17 14.44	− 0.75	+14 30 30.2	....
39	α Hydræ..........	11	22 57.11	− 0.23	−14. 28	312 48 8.12	45.108	−1 0.5	40. 8	9 22	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
20 12 19	30. 02	73. 0	73. 6
12 57	30. 01	74. 0	73. 6
13 27	29. 99	74. 6	74. 7
13 54	29. 99	75. 2	75. 0
14 17	29. 99	75. 6	75. 4
23 9 0	30. 02	64. 4	63. 6
9 49	30. 04	67. 7	67. 2
10 21	30. 05	69. 4	68. 6
11 31	30. 04	71. 9	71. 1
24 12 6	30. 030	73. 0	72. 0
12 45	30. 04	73. 9	73. 3
13 40	30. 03	75. 3	74. 0
14 18	30. 02	74. 9	74. 7
14 49	30. 01	75. 6	75. 2
0 50	30. 06	64. 0	63. 0
1 22	30. 06	63. 5	62. 1
9 4	30. 14	67. 9	66. 7
9 50	30. 15	70. 8	69. 6
10 18	30. 150	72. 3	70. 2
11 7	30. 15	74. 0	72. 9
25 12 9	30. 15	76. 0	75. 0
12 46	30. 14	76. 8	76. 2
13 24	30. 13	78. 7	76. 9
13 53	30. 13	79. 3	77. 2
8 49	30. 08	69. 5	68. 3
9 28	30. 08	70. 0	69. 2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 9, 14, 25.	Bisections at VI, VII.
8, 13, 14, 24, 31, 32, 38.	Z. D. thread A used.
13.	Bisections at I, II.
31.	Bisections at I, II, III.
32.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 4.0	....	0.0	+ 4.0
8	+ 4.7	+ 11.3	...	+ 16.0
13	+ 5.5	−16 0.3	...	−15 54.8
14	+ 5.6	+16 0.2	...	+16 5.8
15	+ 4.2	....	0.0	+ 4.2
24	+ 4.7	+ 11.2	...	+ 15.9
31	+ 5.6	+15 59.1	...	+16 4.7
32	+ 5.6	−15 59.2	...	−15 53.6
33	+ 4.3	....	0.0	+ 4.3
38	+ 4.7	+ 11.1	...	+ 15.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Leonis...........	11	40 27.64	− 0.29	−14.35	345 14 9.15	47.275	− 14.7	41.9	9 40	.....	.. ..	....
2	α Leonis...........	11	3 19.57	− 0.27	−14.24	333 28 7.75	45.841	− 27.9	40.9	10 3	.....	.. ..	....
3	γ¹ Leonis..........	10	14 44.55	− 0.28	−14.43	341 22 8.22	43.654	− 18.8	41.1	10 14	.....	.. ..	....
	September 26, Hh.												
4	Sun I, N	11	10 40.46	− 0.24	**−14.36**	319 59 59.02	43.258	− 46.0	**41.1**	12 10 25.86	+64.05	− 0 58 52.8	....
5	Sun II, S.........	11	12 48.57	− 0.24	**−14.36**	319 27 59.58	43.375	− 46.9	**41.1**	12 12 33.97	−64.06	− 1 30 53.4	....
6	Mercury C, C	11	49 46.17	− 0.25	**−14.37**	316 8 6.52	47.065	− 52.5	**41.1**	12 49 31.55	+ 0.01	− 4 52 54.8	....
7	α Virginis	10	20 12.17	− 0.24	−14.38	310 24 6.52	42.609	−1 4.1	42.4	13 19	.....	.. ..	....
8	η Bootis...........	10	50 11.75	− 0.32	−14.31	339 54 6.42	47.640	− 19.9	40.7	13 49	.....	.. ..	....
9	α Bootis...........	11	11 22.37	− 0.33	−14.38	340 44 5.88	42.126	− 19.0	40.1	14 11	.....	.. ..	....
10	ε Bootis...........	11	40 53.53	− 0.36	−14.46	348 30 7.82	46.802	− 11.0	40.7	14 40	.....	.. ..	....
11	α² Libræ	11	45 37.85	− 0.25	−14.43	305 24 7.32	45.740	−1 16.1	41.5	14 45	.....	.. ..	....
	September 26, K.												
12	6 B. Ursæ Minoris S. P.	5	13 46.04	− 4.80	[−15.64]	52 44	......	....	....	12 13	.....	.. ..	....
13	δ Piscium	11	43 48.85	− 0.34	[−14.37]	328 4 7.55	45.575	− 34.4	[41.9]	0 43	.....	.. ..	....
14	ε Piscium	11	58 4.33	− 0.34	[−14.32]	328 22 6.72	47.605	− 34.0	[43.3]	0 57	.....	.. ..	....
15	α Ursæ Minoris	5	24 26.98	− 7.67	[−14.02]	49 46	......	....	....	1 24	.....	.. ..	....
	September 26, Hd.												
16	α Lyncis	11	15 15.70	− 0.44	−14.71	355 50 8.25	43.072	− 4.0	40.9	9 15	.....	.. ..	....
17	Venus II, S......	11	21 41.30	− 0.38	**−14.60**	335 14 8.32	47.430	− 25.2	**41.0**	9 21 26.32	− 0.74	+14 16 56.0	....
18	α Leonis...........	11	3 20.03	− 0.39	−14.56	333 28 8.40	45.790	− 27.3	41.3	10 3	.....	.. ..	....
19	γ¹ Leonis..........	11	14 44.89	− 0.41	−14.62	341 22 9.18	43.555	− 18.4	40.7	10 14	.....	.. ..	....
20	ρ Leonis...........	11	27 49.85	− 0.39	−14.51	330 50 8.78	45.638	− 30.4	40.6	10 27	.....	.. ..	....
21	α Ursæ Majoris	11	57 50.07	− 0.66	[−14.77]	23 18 9.80	43.008	+ 23.5	[42.4]	10 57	.....	.. ..	....
	September 27, Hd.												
22	Sun I, S.........	11	14 16.98	− 0.38	**−14.62**	319 4 8.45	44.712	− 46.8	**41.0**	12 14 1.98	+64.15	− 1 54 16.4	....
23	Sun II, N	9	16 25.28	− 0.38	**−14.62**	319 36 8.58	44.753	− 45.9	**41.0**	12 16 10.28	−64.15	− 1 22 16.6	....
24	α Virginis	4	20 12.47	− 0.36	−14.56	310 24	......	....	....	13 19	.....	.. ..	....
25	Moon I..........	10	58 27.52	− 0.35	**−14.64**	301 50	......	....	....	14 58 12.53	+65.04	.. ..	....
26	β Libræ...........	9	11 55.01	− 0.38	−14.67	312 0 8.20	47.245	−1 0.0	41.6	15 11	.....	.. ..	....
27	β Coronæ Borealis .	11	23 59.13	− 0.52	−14.72	350 28 7.58	44.800	− 9.1	41.1	15 23	.....	.. ..	....
28	α Coronæ Borealis .	11	30 44.05	− 0.51	−14.67	348 4 8.52	44.946	− 11.4	41.1	15 30	.....	.. ..	....
29	α Serpentis........	11	39 37.76	− 0.44	−14.55	327 46 7.15	43.979	− 34.1	41.1	15 39	.....	.. ..	....
30	δ Ophiuchi........	11	9 23.95	− 0.40	−14.67	317 36 8.35	42.752	− 49.6	40.9	16 9	.....	.. ..	....
	October 5, Ei.												
31	γ Aquarii	11	16 51.50	− 0.32	−17.43	319 8 8.90	46.496	− 48.0	42.5	22 16	.....	.. ..	....
32	π Aquarii	11	20 32.29	− 0.33	−17.51	321 54 9.40	45.280	− 43.5	43.5	22 20	.....	.. ..	....
33	Moon I, S	11	28 47.52	− 0.32	**−17.48**	316 2 8.50	43.190	− 53.5	**43.4**	22 28 29.72	+69.11	− 4 56 55.7	....
34	ζ Pegasi...........	11	36 50.52	− 0.35	−17.43	331 20 8.58	45.910	− 30.4	44.1	22 36	.....	.. ..	....
35	λ Aquarii..........	11	47 46.09	− 0.30	−17.54	312 56 7.80	43.349	− 59.7	43.7	22 47	.....	.. ..	....
	October 5, Br.												
36	ε Leonis...........	11	40 31.43	− 0.42	−17.79	345 14 8.80	47.222	− 14.6	42.1	9 40	.....	.. ..	....
37	Venus II, S......	11	59 57.81	− 0.39	**−17.62**	332 54 7.80	41.134	− 28.3	**42.3**	9 59 39.80	− 0.68	+11 54 50.4	....
38	α Leonis...........	11	3 23.17	− 0.40	−17.51	333 28 16.32	45.485	− 27.7	42.5	10 3	.....	.. ..	....
39	δ Leonis...........	11	9 7.67	− 0.42	−17.66	342 6 8.78	41.828	− 17.8	42.0	11 8	.....	.. ..	....
40	β Leonis...........	11	44 17.54	− 0.42	−17.57	336 8 8.18	47.182	− 24.2	41.9	11 43	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
25 10 10	30.08	73.3	72.0
10 48	30.07	75.8	75.1
11 21	30.06	77.2	76.8
26 12 13	30.045	79.2	79.3
12 54	30.03	80.6	81.8
13 55	30.01	83.0	83.1
14 52	29.99	84.3	84.4
0 35	29.88	73.2	73.3
1 20	29.88	74.0	74.2
9 9	29.92	77.0	77.7
10 8	29.93	79.5	79.9
10 34	29.94	82.5	82.9
11 5	29.94	84.1	84.5
27 12 16	29.93	85.1	85.7
15 17	29.87	84.5	84.3
15 45	29.88	85.1	84.7
16 15	29.88	82.3	80.8
5 22 5	29.94	72.8	72.0
22 50	29.94	72.2	71.5
9 45	29.98	73.9	71.9
10 11	29.98	75.5	73.7
11 12	29.99	79.1	77.1
11 47	29.985	80.4	79.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 5, 17, 22, 23, 33, 37.	Z. D. thread A used.
4, 14, 26.	Bisections at I, II.
5, 16, 27, 38.	Bisections at VI, VII.
22.	Bisections at I, II, III.
23.	Bisections at V, VI, VII.
33.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 5.6	−16 0.2	...	−15 54.6
5	+ 5.7	+16 0.3	...	+16 6.0
6	+ 4.4	....	0.0	+ 4.4
17	+ 4.7	+ 11.0	...	+ 15.7
22	+ 5.7	+15 59.9	...	+16 5.6
23	+ 5.7	−15 59.9	...	−15 54.2
33	+41 52.3	+16 34.3	...	+58 26.6
37	+ 4.7	+ 10.1	...	+ 14.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	October 6, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, S	11	46 57.51	− 0.39	**−17.68**	315 36 8.48	40.712	− 53.4	**41.4**	12 46 39.44	+64.58	− 5 23 39.8	....
2	Sun II, N	11	49 6.67	− 0.39	**−17.68**	316 8 6.90	41.130	− 52.4	**41.4**	12 48 48.60	−64.58	− 4 51 34.9	....
3	α Virginis	8	20 15.61	− 0.38	−17.67	310 24 6.95	42.585	−1 4.0	40.8	13 19	.....	.. ..	....
4	Mercury C, C	11	47 20.84	− 0.38	**−17.70**	309 10 7.10	40.529	−1 6.8	**41.0**	13 47 2.76	+ 0.02	−11 53 13.7	....
5	α Bootis	11	11 25.75	− 0.47	−17.69	340 44 7.40	41.996	− 19.0	40.7	14 11	.....	.. ..	....
6	ρ Bootis	11	27 50.76	− 0.51	−17.72	351 50 7.80	42.985	− 7.8	41.0	14 27	.....	.. ..	....
7	ε Bootis	11	40 56.87	− 0.50	−17.76	348 30 7.45	46.750	− 11.0	41.1	14 40	.....	.. ..	....
	October 6, Ei.												
8	λ Aquarii	11	47 46.27	− 0.40	−17.62	312 54 6.50	49.621	− 59.6	42.9	22 47	.....	.. ..	....
9	φ Aquarii	11	9 31.10	− 0.40	−17.68	314 26 6.75	47.668	− 56.5	43.3	23 9	.....	.. ..	....
10	Moon I, S	11	26 58.54	− 0.43	**−17.62**	321 48 8.05	48.294	− 43.6	**43.1**	23 26 40.49	+69.61	+ 0 50 52.0	....
11	ι Piscium	11	35 10.91	− 0.43	−17.61	326 6 8.12	47.756	− 37.3	43.2	23 34	.....	.. ..	....
12	ω Piscium	11	54 33.09	− 0.44	−17.58	327 20 7.80	46.198	− 35.6	42.9	23 54	.....	.. ..	....
13	33 Piscium	11	0 35.54	− 0.41	−17.62	314 46 7.92	45.330	− 56.0	43.4	0 0	.....	.. ..	....
	October 6, K.												
14	6 B. Ursæ Minoris S. P.	5	13 46.44	+ 7.01	[−17.85]	52 44	......	....	....	12 13	.....	.. ..	....
15	δ Piscium	11	43 52.26	− 0.32	[−17.73]	328 4 13.78	45.411	− 34.7	[43.2]	0 43	.....	.. ..	....
16	ε Piscium	11	58 7.85	− 0.32	[−17.77]	328 22 14.38	47.380	− 34.3	[44.2]	0 57	.....	.. ..	....
17	α Ursæ Minoris	5	24 36.58	−10.79	[−17.30]	49 46	......	....	....	1 24	.....	.. ..	....
	October 7, K.												
18	6 B. Ursæ Minoris S. P.	3	13 48.40	+ 5.42	[−18.12]	52 44	......	....	....	12 13	.....	.. ..	....
19	44 Piscium	11	20 39.46	− 0.30	−18.07	322 26 10.05	41.975	− 42.8	43.8	0 20	.....	.. ..	....
20	12 Ceti	11	25 19.01	− 0.28	−18.10	316 32 6.98	43.405	− 52.7	43.2	0 25	.....	.. ..	....
21	Moon I, N	8	26 19.78	− 0.33	**−18.10**	328 10 12.70	41.418	− 34.5	**43.8**	0 26 1.35	+70.46	+ 7 10 53.1	....
22	δ Piscium	6	43 52.67	− 0.32	−18.14	328 4 7.85	45.712	− 34.6	44.6	0 43	.....	.. ..	....
23	ε Piscium	11	58 8.17	− 0.32	−18.08	328 22 7.28	47.712	− 34.2	43.6	0 57	.....	.. ..	....
24	α Ursæ Minoris	5	24 36.68	− 8.52	[−19.45]	49 46	......	....	....	1 24	.....	.. ..	....
	October 9, K.												
25	6 B. Ursæ Minoris S. P.	5	13 52.84	+ 3.58	[−20.62]	52 44	......	....	....	12 13	.....	.. ..	....
26	δ Piscium	11	43 53.12	− 0.23	[−18.66]	328 4 9.45	45.692	− 36.2	[44.6]	0 43	.....	.. ..	....
27	ε Piscium	11	58 8.66	− 0.23	[−18.65]	328 22 8.95	47.686	− 35.8	[43.0]	0 57	.....	.. ..	....
28	α Ursæ Minoris	4	24 32.84	− 5.58	[−17.97]	49 46	......	....	....	1 24	.....	.. ..	....
29	ξ¹ Ceti	11	8 5.32	− 0.24	−18.50	329 24 9.02	46.111	− 34.5	45.5	2 7	.....	.. ..	....
30	ξ² Ceti	11	23 13.95	− 0.23	−18.62	329 2 10.45	46.121	− 35.0	44.2	2 22	.....	.. ..	....
31	Moon II, N	11	32 13.39	− 0.26	**−18.55**	337 44 9.85	46.134	− 23.8	**44.7**	2 31 54.58	−72.35	+16 46 30.5	....
32	*f* Tauri	11	25 44.49	− 0.24	−18.54	333 36 10.08	48.400	− 29.0	44.3	3 25	.....	.. ..	....
	October 9, Hh.												
33	α Leonis	11	3 24.34	− 0.14	−18.85	333 28 9.20	45.836	− 29.0	42.9	10 3	.....	.. ..	....
34	δ Leonis	11	9 8.73	− 0.16	−18.91	342 6 9.92	41.778	− 18.7	42.1	11 8	.....	.. ..	....
35	β Leonis	11	44 18.60	− 0.15	−18.85	336 8 9.05	47.182	− 25.5	42.1	11 43	.....	.. ..	....
	October 10, Hh.												
36	Sun I, N	4	1 37.29	− 0.11	**−18.99**	314 34 5.08	48.815	− 58.1	**42.3**	13 1 18.19	+64.78	− 6 23 13.4	....
37	Sun II, S	10	3 46.86	− 0.11	**−18.99**	314 4 5.32	42.550	− 59.2	**42.3**	13 3 27.76	−64.79	− 6 55 17.0	....
38	Mercury C, C	10	9 35.87	− 0.09	**−19.06**	306 40 8.22	42.109	−1 16.7	**42.3**	14 9 16.72	+ 0.02	−14 22 53.4	....
39	ρ Bootis	11	27 51.73	− 0.18	−19.05	351 50 8.38	42.982	− 8.2	41.9	14 27	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
6 12 49	29.98	81.8	80.8
13 23	29.97	82.8	81.9
13 52	29.96	83.7	82.5
14 45	29.95	85.0	83.5
22 26	29.96	74.3	73.2
23 30	29.96	73.0	72.1
0 2	29.96	72.8	71.6
0 55	29.95	72.0	70.8
1 20	29.95	71.6	70.5
7 0 17	29.87	71.0	69.9
1 0	29.86	70.8	69.7
9 0 38	29.955	51.5	50.2
1 19	29.95	50.5	49.0
2 5	29.94	49.1	47.7
2 50	29.95	48.2	46.0
3 26	29.94	47.1	45.9
10 20	30.00	51.1	49.8
11 12	30.00	52.7	51.4
11 51	29.98	53.6	52.9
12 32	29.98	55.2	54.3
10 13 4	29.96	56.0	55.2
13 57	29.94	56.9	56.8
14 33	29.93	59.0	58.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 2, 10, 21, 31, 36, 37.	Z. D. thread A used.
1, 36.	Bisections at I, II.
2, 3, 37.	Bisections at VI, VII.
10, 31.	Bisections at II, III, IV, V, VI.
21.	Bisections at III, IV, V.
22.	Bisections at I, II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 6.2	+16 2.4	...	+16 8.6
2	+ 6.1	−16 2.4	...	−15 56.3
4	+ 5.1	....	− 0.1	+ 5.0
10	+37 33.0	+16 42.8	...	+54 15.8
21	+32 5.8	−16 46.0	...	+15 19.8
31	+22 40.8	−16 34.9	...	+ 6 5.9
36	+ 6.3	−16 1.8	...	−15 55.5
37	+ 6.3	+16 1.8	...	+16 8.1
38	+ 5.4	....	− 0.1	+ 5.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Bootis	11	40 57.82	— 0.17	—19.07	348 30 9.40	46.698	— 11.6	42.3	14 40	.....	.. ..	....
2	β Bootis	11	58 30.88	— 0.21	—19.13	1 48 9.15	44.136	+ 1.9	42.5	14 58	.....	.. ..	....
3	δ Bootis	11	11 48.76	— 0.19	—19.13	354 42 7.92	45.151	— 5.2	42.2	15 11	.....	.. ..	....
	October 10, K.												
4	6 B. Ursæ Minoris s. p.	5	13 55.64	+ 1.67	[—21.31]	52 44	......	....	....	12 13	.....	.. ..	....
5	δ Piscium	11	43 53.48	— 0.21	[—19.04]	328 4 8.92	45.758	— 36.1	[44.4]	0 43	.....	.. ..	....
6	ε Piscium	11	58 9.05	— 0.21	[—19.06]	328 22 8.90	47.736	— 35.7	[44.0]	0 57	.....	.. ..	....
7	α Ursæ Minoris....	4	24 30.92	— 2.83	[—18.47]	49 46	......	....	....	1 24	.....	.. ..	....
8	f Tauri	..	.. ..	....	.....	333 36 9.08	48.452	— 28.8	44.5	3 25	.....	.. ..	....
9	Moon N........	..	.. ..	....	.....	340 46 8.75	43.581	— 20.2	**44.6**	3 34	.....	+19 47 44.1	....
10	η Tauri..........	..	.. ..	....	.....	344 48 8.55	48.060	— 15.8	44.8	3 41	.....	.. ..	....
11	ζ Persei..........	..	.. ..	....	.....	352 36 8.80	45.644	— 7.5	44.5	3 48	.....	.. ..	....
	October 10, B.												
12	γ¹ Leonis	11	14 49.74	— 0.16	—19.43	341 22 14.15	43.279	— 19.4	41.7	10 14	.....	.. ..	....
13	ρ Leonis	11	27 54.71	— 0.14	—19.36	330 50 9.55	45.640	— 32.0	41.3	10 27	.....	.. ..	....
14	α Ursæ Majoris....	11	57 54.90	— 0.26	[—19.63]	23 18 11.28	42.652	+ 24.8	[43.0]	10 57	.....	.. ..	....
15	δ Leonis	11	9 9.35	— 0.16	—19.52	342 6 10.42	41.726	— 18.5	42.0	11 8	.....	.. ..	....
16	β Leonis	11	44 19.25	— 0.16	—19.48	336 8 10.60	46.991	— 25.2	40.4	11 43	.....	.. ..	....
	October 11, B.												
17	Sun I, S.	11	5 18.86	— 0.15	**—19.56**	313 40 8.55	46.212	— 59.2	**41.2**	13 4 59.15	+64.90	— 7 18 0.1	....
18	Sun II, N.	11	7 28.66	— 0.15	**—19.56**	314 12 7.65	46.702	— 58.1	**41.2**	13 7 8.95	—64.90	— 6 45 52.6	....
19	α Virginis........	11	20 17.41	— 0.14	—19.69	310 24 8.98	42.603	—1 6.5	41.6	13 19	.....	.. ..	....
20	η Ursæ Majoris....	10	43 56.29	— 0.28	[—19.59]	10 48 9.72	48.268	+ 10.9	[42.1]	13 43	.....	.. ..	....
21	η Bootis..........	10	50 16.76	— 0.20	—19.48	339 54 10.08	47.376	— 20.7	40.8	13 49	.....	.. ..	....
22	α Bootis..........	10	11 27.40	— 0.21	—19.61	340 44 9.55	41.898	— 19.7	41.2	14 11	.....	.. ..	....
23	Mercury I, C	11	15 6.45	— 0.14	**—19.61**	306 4 9.05	43.488	—1 17.3	**41.2**	14 14 46.70	+ 0.18	—14 58 25.6	....
24	ρ Bootis..........	11	27 52.35	— 0.24	—19.62	351 50 10.25	42.775	— 8.1	40.2	14 27	.....	.. ..	....
	October 11, K.												
25	6 B. Ursæ Minoris s. p.	5	13 55.04	+ 3.43	[—22.27]	52 44	......	....	....	12 13	.....	.. ..	....
26	δ Piscium	11	43 54.21	— 0.21	[—19.77]	328 4 8.85	45.730	— 35.6	[44.2]	0 43	.....	.. ..	....
27	ε Piscium	11	58 9.76	— 0.21	[—19.76]	328 22 8.42	47.742	— 35.1	[44.2]	0 57	.....	.. ..	....
28	α Ursæ Minoris....	4	24 32.54	— 4.69	[—17.92]	49 46	......	....	....	1 24	.....	.. ..	....
	October 11, B.												
29	ε Tauri	11	23 11.40	— 0.22	—19.87	339 58 9.65	47.180	— 21.0	43.1	4 22	.....	.. ..	....
30	α Tauri...........	11	30 35.71	— 0.22	—19.99	337 20 9.22	44.155	— 24.0	43.2	4 30	.....	.. ..	....
31	Moon II, N......	11	39 3.46	— 0.24	**—19.95**	342 16 9.30	48.464	— 18.3	**43.4**	4 38 43.27	—72.19	+21 19 21.4	....
32	i Tauri...........	11	45 56.22	— 0.22	—19.99	339 42 9.80	42.906	— 21.2	43.7	4 45	.....	.. ..	...
33	α Orionis.........	11	50 9.64	— 0.20	—19.99	328 24 8.52	46.900	— 35.6	[40.5]	5 49	.....	.. ..	....
34	θ Aurigæ..........	11	53 19.35	— 0.28	—19.95	358 14 9.22	41.689	— 1.7	43.3	5 52	.....	.. ..	....
35	Neptune C, C....	8	57 2.29	— 0.23	**—20.00**	343 14 9.30	44.728	— 17.4	**43.4**	5 56 42.06	.....	+22 12 54.1	....
36	η Geminorum	11	9 15.10	— 0.23	—20.06	343 32 9.65	48.309	— 17.1	43.5	6 8	.....	.. ..	....
	October 14, B.												
37	δ Geminorum	11	14 36.08	— 0.19	—22.82	343 12 8.75	41.272	— 17.3	42.6	7 14	.....	.. ..	....
38	β Canis Minoris....	11	22 10.21	— 0.17	—22.77	329 30 8.38	46.906	— 33.7	42.7	7 21	.....	.. ..	....
39	Moon II, S	11	34 59.79	— 0.18	**—22.85**	338 6 10.20	41.009	— 23.0	**42.3**	7 34 36.76	—66.76	+ 17 6 55.7	....
40	β Geminorum	11	39 38.89	— 0.20	—22.93	349 16 9.40	47.118	— 10.8	42.1	7 39	.....	.. ..	....
41	φ Geminorum	11	47 49.64	— 0.20	—22.90	348 2 9.20	45.348	— 12.1	41.9	7 47	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
10 15 21	29.92	60.2	59.5
0 44	29.89	51.0	50.2
1 20	29.895	50.9	49.3
2 50	29.89	48.9	48.1
3 26	29.875	48.5	47.5
3 47	29.88	48.7	47.3
10 17	29.915	53.7	53.9
11 3	29.91	56.8	56.2
11 47	29.90	58.7	58.1
11 13 7	29.89	61.4	60.7
13 46	29.88	62.3	61.7
14 39	29.855	64.8	63.3
0 42	29.81	55.6	56.0
1 20	29.81	55.8	56.0
4 16	29.78	51.8	50.8
4 52	29.78	52.5	52.5
5 48	29.79	50.5	49.2
6 15	29.81	50.0	48.5
14 7 6	29.875	55.4	54.8
7 52	29.88	56.0	55.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

9, 17, 18, 31, 39.	Z. D. thread A used.
9, 31, 39.	Bisections at II, III, IV, V, VI.
10, 35.	Bisections at VI, VII.
17.	Bisections at I, II, III.
18.	Bisections at V, VI, VII.
19.	Bisections at II, VI, VII.
37.	Bisections at I, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
9	+19 25.7	—16 22.0	...	+ 3 3.7
17	+ 6.4	+16 3.7	...	+16 10.1
18	+ 6.3	—16 3.7	...	—15 57.4
23	+ 5.5	....	— 0.1	+ 5.4
31	+17 38.7	—16 6.4	...	+ 1 32.3
35	+ 0.1	....	...	+ 0.1
39	+20 39.0	+15 19.6	...	+35 58.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	October 14, Hh.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Leonis	11	3 28.46	− 0.26	−22.73	333 28 9.38	45.790	− 28.4	43.5	10 3	.....	.. ..	....
2	γ^1 Leonis	11	14 53.36	− 0.27	−22.85	341 22 9.30	43.539	− 19.2	42.7	10 14	.....	.. ..	....
3	Venus II, S.	11	38 47.17	− 0.25	**−22.84**	329 58 7.92	43.855	− 32.7	**42.7**	10 38 24.08	− 0.63	+ 8 59 37.9	....
4	δ Leonis	11	9 12.92	− 0.27	−22.90	342 6	......	....	....	11 8	.....	.. ..	....
5	β Leonis	11	44 22.77	− 0.26	−22.84	336 8 8.55	47.128	− 24.9	42.0	11 43	.....	.. ..	....
6	γ Corvi	6	11 5.13	− 0.21	−23.03	304 2 6.65	47.165	−1 22.9	42.0	12 10	.....	.. ..	....
	October 15, Hh.												
7	Sun I, N	11	20 11.03	− 0.22	**−23.02**	312 44 7.38	41.180	−1 0.4	**41.7**	13 19 47.79	+65.20	− 8 15 39.2	....
8	Sun II, S.	11	22 21.44	− 0.22	**−23.02**	312 12 7.32	40.755	−1 1.5	**41.7**	13 21 58.20	−65.21	− 8 47 51.1	....
9	Mercury C, C.	11	36 56.25	− 0.21	**−23.11**	303 50 7.02	45.105	−1 22.9	**41.3**	14 36 32.93	+ 0.03	−17 12 2.3	....
10	ε Bootis	11	41 1.90	− 0.28	−23.06	348 30 7.50	46.598	− 11.3	39.7	14 40	.....	.. ..	....
11	β Bootis	11	58 34.95	− 0.31	−23.14	1 48 7.85	44.065	+ 1.8	41.0	14 58	.....	.. ..	....
12	δ Bootis	11	11 52.86	− 0.29	−23.17	354 42 7.52	45.084	− 5.1	41.7	15 11	.....	.. ..	....
13	β Coronæ Borealis	11	24 7.12	− 0.28	−23.17	350 28 8.15	44.581	− 9.3	42.0	15 23	.....	.. ..	....
	October 15, K.												
14	6 B. Ursæ Minoris s. p.	5	13 59.04	+ 2.15	[−24.49]	52 44	......	....	....	12 13	.....	.. ..	....
15	δ Piscium	10	43 57.65	− 0.27	[−23.14]	328 4 8.48	45.719	− 35.3	[43.8]	0 43	.....	.. ..	....
16	ε Piscium	11	58 13.31	− 0.27	[−23.23]	328 22 8.20	47.740	− 34.9	[44.1]	0 57	.....	.. ..	....
17	α Ursæ Minoris	5	24 37.41	− 3.70	[−22.98]	49 46	......	....	....	1 24	.....	.. ..	....
	October 15, Hh.												
18	α Orionis	11	50 13.19	− 0.27	−23.36	328 24 8.45	47.020	− 35.0	43.5	5 49	.....	.. ....	....
19	Neptune C, C.	11	56 58.92	− 0.28	**−23.48**	343 14 9.68	44.120	− 17.1	**43.6**	5 56 35.16	.....	+22 12 44.5	....
20	ν Orionis	11	2 19.68	− 0.28	−23.40	335 48	......	....	....	6 1	.....	.. ..	....
21	μ Geminorum	11	17 22.88	− 0.28	−23.55	343 34 8.72	47.504	− 16.8	43.5	6 16	.....	.. ..	....
22	ν Geminorum	11	23 29.61	− 0.28	−23.52	341 18 9.50	43.364	− 19.3	44.4	6 23	.....	.. ..	....
23	ε Geminorum	11	38 15.04	− 0.29	−23.60	346 14 8.95	46.926	− 13.9	43.6	6 37	.....	.. ..	....
24	β Geminorum	11	39 39.69	− 0.29	−23.60	349 16 9.40	47.170	− 10.8	43.2	7 39	.....	.. ..	....
25	ζ^1 Cancri	11	6 55.96	− 0.28	−23.49	338 58 9.32	44.411	− 22.0	43.5	8 6	.....	.. ..	....
26	β Cancri	11	11 32.61	− 0.27	−23.46	330 30 9.05	47.184	− 32.4	43.7	8 11	.....	.. ..	....
27	Moon II, S	8	27 6.76	− 0.29	**−23.50**	334 50 8.45	46.270	− 26.8	**43.6**	8 26 42.94	−64.68	+13 52 29.8	....
28	ε Hydræ	11	41 55.68	− 0.27	−23.46	327 48 8.32	45.845	− 36.0	43.6	8 41	.....	.. ..	....
29	Mars C, C	11	56 58.89	− 0.28	**−23.51**	339 42 9.28	42.326	− 21.1	**43.6**	8 56 35.10	− 0.02	+18 40 5.8	....
	October 15, Br.												
30	Venus II, S.	11	43 7.58	− 0.20	**−23.77**	329 38 8.35	39.796	− 33.0	**41.4**	10 42 43.61	− 0.63	+ 8 38 21.5	....
31	δ Leonis	11	9 13.75	− 0.21	−23.77	342 6 9.52	41.737	− 18.1	42.0	11 8	.....	.. ..	....
32	ν Ursæ Majoris	11	13 30.93	− 0.22	−23.82	354 38 8.58	47.622	− 5.2	42.2	11 13	.....	.. ..	....
33	β Leonis	10	44 23.63	− 0.20	−23.75	336 8 9.12	47.031	− 24.6	41.2	11 43	.....	.. ..	....
34	γ Corvi	11	11 5.95	− 0.17	−23.88	304 2 8.32	46.948	−1 21.9	40.5	12 10	.....	.. ..	....
	October 16, Br.												
35	Sun I, N	11	23 55.42	− 0.20	**−23.87**	312 22 6.98	40.658	−1 0.3	**41.4**	13 23 31.35	+65.27	− 8 37 49.5	....
36	Sun II, S.	11	26 5.96	− 0.20	**−23.87**	311 50 8.02	40.277	−1 1.4	**41.4**	13 25 41.89	−65.27	− 9 9 58.9	....
37	α Bootis	11	11 31.69	− 0.27	−23.85	340 44 8.78	41.858	− 19.2	41.0	14 11	.....	.. ..	....
38	ρ Bootis	11	27 56.71	− 0.30	−23.93	351 50 8.95	42.829	− 7.9	41.4	14 27	.....	.. ..	....
39	Mercury C, C.	11	42 19.50	− 0.20	**−23.92**	303 18 8.48	47.476	−1 23.1	**41.4**	14 41 55.38	+ 0.03	−17 43 15.7	....
40	α^2 Libræ	11	45 47.20	− 0.21	−23.93	305 24 8.10	45.785	−1 16.9	41.8	14 45	.....	.. ..	....
41	δ Bootis	11	11 53.67	− 0.33	−23.95	354 42 8.62	44.986	− 5.0	41.4	15 11	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
14 9 57	29.94	59.6	59.2
10 44	29.95	62.5	62.4
11 32	29.95	64.9	64.6
12 16	29.95	66.3	66.4
13 6	29.95	68.2	68.2
15 13 22	29.94	68.8	68.5
14 25	29.93	70.0	70.0
14 51	29.92	71.4	70.6
0 42	29.85	60.5	60.8
1 20	29.84	59.8	59.0
6 8	29.80	56.8	57.0
6 45	29.79	56.1	55.4
7 28	29.79	55.4	54.0
8 31	29.79	54.9	53.6
9 3	29.79	56.3	55.0
10 34	29.785	61.0	61.1
11 20	29.785	64.8	65.0
11 57	29.77	68.4	68.0
12 16	29.77	69.9	69.8
16 13 26	29.745	72.0	72.7
14 32	29.705	73.8	74.4
14 51	29.70	75.5	75.1
15 16	29.695	75.8	75.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 7, 8, 27, 30, 35, 36.	Z. D. thread A used.
7.	Bisections at I, II.
8, 32.	Bisections at VI, VII.
27.	Bisections at II, III, IV, V, VI.
31.	Bisections at II, VI, VII.
35.	Bisections at I, II, III.
36.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 4.8	+ 9.3	...	+ 14.1
7	+ 6.5	−16 5.9	...	−15 59.4
8	+ 6.5	+16 6.0	...	+16 12.5
9	+ 5.9	....	− 0.2	+ 5.7
19	+ 0.1	....	...	+ 0.1
27	+23 15.1	+15 7.4	...	+38 22.5
29	+ 1.9	....	0.0	+ 1.9
30	+ 4.8	+ 9.3	...	+ 14.1
35	+ 6.5	−16 4.7	...	−15 58.2
36	+ 6.6	+16 4.6	...	+16 11.2
39	+ 5.9	....	− 0.2	+ 5.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	October 16, K.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	6 B. Ursæ Minoris s. p.	5	13 59.44	+ 2.28	[−24.82]	52 44	......	....	....	12 13	.....	.. ..	....
2	δ Piscium	11	43 58.50	− 0.23	[−24.03]	328 4 9.60	45.691	− 36.3	[43.3]	0 43	.....	.. ..	....
3	ε Piscium	11	58 14.02	− 0.23	[−23.98]	328 22 13.22	47.546	− 35.9	[44.3]	0 57	.....	.. ..	....
4	α Ursæ Minoris .,..	5	24 38.93	− 3.78	[−24.39]	49 46	......	....	....	1 24	.....	.. ..	....
	October 16, Br.												
5	σ Hydræ	11	33 59.59	− 0.17	−24.43	324 42 10.08	47.401	− 42.3	43.1	8 33	.....	.. ..	....
6	γ Cancri...........	11	37 58.05	− 0.19	−24.45	342 50 10.65	46.261	− 18.4	43.8	8 37	.....	.. ..	....
7	Mars C, C	11	59 14.42	− 0.18	**−24.42**	339 32 10.12	48.150	− 22.2	**42.6**	8 58 49.82	− 0.02	+18 31 58.2	....
8	Moon II, S	11	16 22.55	− 0.18	**−24.42**	331 0 8.50	45.182	− 32.9	**42.6**	9 15 57.95	−62.96	+10 2 3.9	....
9	α Hydræ	11	23 7.72	− 0.16	−24.46	312 48 8.28	45.329	−1 4.2	42.3	9 22	.....	.. ..	....
10	10 Leonis Minoris ..	8	28 33.85	− 0.22	−24.51	357 52 8.90	41.405	− 2.2	42.0	9 28	.....	.. ..	....
11	ο Leonis	11	36 16.15	− 0.18	−24.27	331 22 7.28	44.575	− 32.5	42.2	9 35	.....	.. ..	....
12	ε Leonis	11	40 38.10	− 0.19	−24.41	345 14 9.48	47.177	− 15.6	42.2	9 40	.....	.. ..	....
	October 16, Hh.												
13	α Leonis	11	3 29.95	− 0.14	−24.29	333 28 8.58	45.812	− 29.6	42.2	10 3	.....	.. ..	....
14	γ¹ Leonis	11	14 54.85	− 0.15	−24.41	341 22 9.28	43.572	− 20.0	42.9	10 14	.....	.. ..	....
15	Venus II, S......	11	47 27.62	− 0.13	**−24.38**	329 16 9.08	41.076	− 35.2	**42.4**	10 47 3.11	− 0.62	+ 8 16 43.6	....
16	δ Leonis	11	9 14.27	− 0.16	−24.32	342 6 9.35	41.789	− 19.1	42.6	11 8	.....	.. ..	....
17	ν Ursæ Majoris	9	13 31.60	− 0.18	−24.51	354 38 8.65	47.548	− 5.5	42.4	11 13	.....	.. ..	....
18	β Leonis	11	44 24.22	− 0.14	−24.38	336 8 8.98	47.160	− 26.1	42.2	11 43	.....	.. ..	....
	October 17, Hh.												
19	Sun I, S.........	11	27 39.92	− 0.10	**−24.47**	311 26 7.78	46.628	−1 6.0	**42.4**	13 27 15.35	+65.40	− 9 32 0.6	....
20	Sun II, N	7	29 50.72	− 0.10	**−24.47**	311 58 7.65	47.102	−1 4.8	**42.4**	13 29 26.15	−65.40	− 8 59 53.0	....
21	ε Bootis...........	11	41 3.25	− 0.17	−24.53	348 30 7.90	46.668	− 11.8	41.4	14 40	.....	.. ..	....
22	Mercury C, C....	11	47 40.56	− 0.09	**−24.51**	302 48 7.78	47.262	−1 29.8	**42.4**	14 47 15.96	+ 0.03	−18 13 28.2	....
23	β Bootis...........	10	58 36.12	− 0.20	−24.44	1 48 9.45	44.058	+ 1.9	43.1	14 58	.....	.. ..	....
24	δ Bootis...........	11	11 54.17	− 0.18	−24.61	354 42 7.75	45.100	− 5.3	42.6	15 11	.....	.. ..	....
25	α Coronæ Borealis .	11	30 53.37	− 0.17	−24.58	348 4 9.48	44.844	− 12.2	42.5	15 30	.....	.. ..	....
26	α Serpentis	11	39 47.16	− 0.13	−24.46	327 46 7.80	44.068	− 36.5	42.5	15 39	.....	.. ..	....
	October 17, K.												
27	6 B. Ursæ Minoris s. p.	5	14 1.44	+ 1.89	[−26.23]	52 44	......	....	....	12 13	.....	.. ..	....
28	α Ursæ Minoris....	5	24 37.94	− 3.05	[−24.15]	49 46	......	....	....	1 24	.....	.. ..	....
	October 17, B.												
29	ε Leonis	11	40 38.75	− 0.07	−25.14	345 14 9.25	47.138	− 15.5	42.2	9 40	.....	.. ..	....
30	μ Leonis	11	47 32.90	− 0.08	−25.27	347 30 8.62	42.596	− 13.0	42.0	9 47	.....	.. ..	....
31	Moon II, S.......	11	3 30.16	− 0.05	**−25.12**	326 46 8.28	45.554	− 38.4	**42.2**	10 3 4.99	−61.71	+ 5 48 5.7	....
32	γ¹ Leonis	11	14 55.46	− 0.07	−25.07	341 22 9.68	43.549	− 19.7	43.3	10 14	.....	.. ..	....
33	Venus II, S......	11	51 48.27	− 0.06	**−25.13**	328 52 8.28	47.462	− 35.0	**41.8**	10 51 23.08	− 0.61	+ 7 54 46.0	....
34	δ Leonis	11	9 14.96	− 0.08	−25.07	342 6 9.18	41.736	− 18.7	42.0	11 8	.....	.. ..	....
35	ν Ursæ Majoris	11	13 32.25	− 0.10	−25.22	354 38 8.55	47.491	− 5.4	41.6	11 13	.....	.. ..	....
36	β Leonis	11	44 24.79	− 0.09	−24.98	336 8 8.55	47.044	− 25.5	40.4	11 43	.....	.. ..	....
	October 18, B.												
37	Sun I, S.........	9	31 25.28	− 0.07	**−25.17**	311 4 6.18	46.718	−1 4.7	**40.5**	13 31 0.04	+65.55	− 9 53 57.5	....
38	Sun II, N.........	11	33 36.39	− 0.07	**−25.17**	311 36 5.30	47.438	−1 3.5	**40.5**	13 33 11.15	−65.56	− 9 21 45.5	....
39	η Ursæ Majoris	11	44 1.80	− 0.21	[−25.17]	10 48 9.60	48.136	+ 10.9	[41.8]	13 43	.....	.. ..	....
40	α Bootis...........	11	11 32.85	− 0.13	−25.15	340 44 8.35	41.829	− 19.6	40.0	14 11	.....	.. ..	....
41	ε Bootis...........	11	41 3.86	− 0.15	−25.16	348 30 8.70	46.506	− 11.4	39.7	14 40	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
16	0	41	29.92	50.2	47.8
	1	20	29.93	50.0	47.0
	8	25	30.09	41.1	37.9
	9	3	30.095	42.6	39.1
	9	45	30.12	43.8	41.1
	10	18	30.14	44.9	42.4
	10	51	30.14	46.4	43.3
	11	17	30.14	47.9	44.2
	11	48	30.14	48.9	45.5
	12	54	30.14	49.6	48.0
17	13	30	30.12	51.0	49.2
	14	26	30.11	52.4	51.6
	15	3	30.10	54.9	52.3
	15	35	30.10	55.8	53.0
	9	34	29.915	43.8	41.2
	10	17	29.92	46.8	45.2
	10	50	29.925	49.5	48.3
	11	16	29.92	51.3	49.9
	11	47	29.915	53.8	52.8
18	13	34	29.89	61.0	61.7
	14	15	29.86	63.2	64.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

8, 15, 19, 20, 31, 33, 37, 38.	Z. D. thread A used.
8, 31.	Bisections at II, III, IV, V, VI.
10, 11, 20.	Bisections at VI, VII.
12.	Bisections at II, VI, VII.
19.	Bisections at I, II.
37.	Bisections at I, II, III.
38.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+ 1.9	....	0.0	+ 1.9
8	+26 17.0	+14 57.9	...	+41 14.9
15	+ 4.9	+ 9.2	...	+ 14.1
19	+ 6.6	+16 3.8	...	+16 10.4
20	+ 6.6	−16 3.8	...	−15 57.2
22	+ 6.0	....	− 0.2	+ 5.8
31	+29 31.5	+14 51.0	...	+44 22.5
33	+ 4.9	+ 9.1	...	+ 14.0
37	+ 6.7	+16 5.9	...	+16 12.6
38	+ 6.6	−16 6.0	...	−15 59.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α^2 Libræ	11	45 48.29	— 0.07	—25. 16	305 24 8.58	45.765	—1 18.7	40. 1	14 45	.....	.. ..	....
2	Mercury I, C	11	52 59.29	— 0.07	**—25.19**	302 20 7.50	43.048	—1 28.3	**39.9**	14 52 34.03	+ 0.19	—18 42 45.3	....
3	β Libræ	11	12 5.17	— 0.09	-25. 27	312 0 8.60	47.334	—1 2.1	40. 0	15 11	.....	.. ..	....
	October 18, Hh.												
4	α Leonis	11	3 31.07	0.24	—25.26	333 28 9.40	45.704	— 28.7	42. 2	10 3	.....	.. ..	....
5	γ^1 Leonis	11	14 55.96	— 0.26	—25. 36	341 22 9.00	43.506	— 19.4	42. 3	10 14	.....	.. ..	....
6	Moon II	10	49 18.23	— 0.23	**—25.32**	322 38	......	....	....	10 48 52.68	—61.01	.. ..	....
7	Venus II, S	11	56 8.55	— 0.24	**—25.32**	328 32 8.22	40.531	— 35.2	**41.9**	10 55 42.99	— 0.61	+ 7 32 32.8	....
8	δ Leonis	11	9 15.49	— 0.26	—25. 40	342 6 9.60	41.719	— 18.6	42. 4	11 8	.....	.. ..	....
9	β Leonis	11	44 25.25	- 0.25	—25. 27	336 8 9.50	47.050	- 25.4	41. 7	11 43	.....	.. ..	....
	October 19, Hh.												
10	Sun I, N	11	35 11.12	— 0.21	**—25.38**	311 16 6.05	41.912	—1 5.2	**41.9**	13 34 45.53	+65.49	— 9 43 31.4	....
11	Sun II, S	11	37 22.11	— 0.21	**—25.38**	310 44 4.62	41.455	—1 6.4	**41.9**	13 36 56.52	—65.50	—10 15 45.4	....
12	α Bootis	11	11 33.17	— 0.26	—25. 34	340 44 5.72	42.021	— 20.0	40. 9	14 11	.....	.. ..	....
13	ρ Bootis	11	27 58.18	— 0.28	—25. 42	351 50 9.20	42.842	— 8.2	42. 3	14 27	.....	.. ..	....
14	ε Bootis	11	41 4.25	— 0.27	—25. 43	348 30 9.78	46.565	— 11.6	41. 9	14 40	.....	.. ..	....
15	Mercury C, C	11	58 15.86	0.20	**—25.41**	301 52 7.95	42.518	—1 32.0	**41.9**	14 57 50.25	+ 0.03	-19 11 0.7	....
16	δ Bootis	11	11 55.05	— 0.28	—25. 41	354 42 8.72	44.984	— 5.3	41. 8	15 11	.....	.. ..	....
	October 19, K.												
17	6 B. Ursæ Minoris s. p.	5	13 59.04	+ 2.74	[—24. 28]	52 44	......	....	....	12 13	.....	.. ..	....
18	δ Piscium	11	43 59.77	— 0.28	[—25. 24]	328 4 8.62	45.772	— 36.6	[43. 5]	0 43	.....	.. ..	....
19	ε Piscium	11	58 15.34	— 0.28	[—25. 24]	328 22 8.72	47.786	— 36.2	[44. 1]	0 57	.....	.. ..	....
20	α Ursæ Minoris	5	24 41.86	— 4.43	[—26. 79]	49 46	......	....	....	1 24	.....	.. ..	....
	October 19, Br.												
21	Venus II, S	11	0 28.69	— 0.15	**—25.49**	328 8 9.18	45.074	— 36.4	**42.0**	11 0 3.05	— 0.60	+ 7 9 59.6	....
22	δ Leonis	11	9 15.55	— 0.17	—25. 53	342 6 9.95	41.700	— 18.9	42. 3	11 8	.....	.. ..	....
23	Moon II	11	34 35.35	— 0.15	**—25.50**	318 8	......	....	....	11 34 9.70	—60.86	.. ..	....
24	β Leonis	11	44 25.38	— 0.16	—25. 47	336 8 9.40	47.113	— 25.8	41. 9	11 43	.....	.. ..	....
25	γ Virginis (*mean*)	11	37 3.31	— 0.15	—25. 42	320 8	......	....	....	12 36	.....	.. ..	....
26	α Canum Venat.	11	51 48.15	— 0.19	---25. 60	359 52 8.98	44.672	— 0.1	41. 0	12 51	.....	.. ..	....
	October 20, Br.												
27	Sun I, S	11	38 57.35	— 0.14	**—25.52**	310 22 7.90	42.402	—1 7.8	**41.2**	13 38 31.69	+65.60	—10 37 22.4	....
28	Sun II, N	11	41 8.56	— 0.14	**—25.52**	310 54 7.40	43.225	—1 6.5	**41.2**	13 40 42.90	—65.61	—10 5 7.9	....
29	α Bootis	11	11 33.22	— 0.17	—25. 48	340 44 8.75	41.855	— 20.2	40. 7	14 11	.....	.. ..	....
30	ρ Bootis	11	27 58.25	-- 0.18	—25. 60	351 50 8.50	42.820	— 8.2	40. 7	14 27	.....	.. ..	....
31	ε Bootis	11	41 4.25	— 0.18	—25. 53	348 30 9.22	46.529	— 11.7	40. 8	14 40	.....	.. ..	....
32	Mercury C, C	11	3 29.13	— 0.13	**—25.54**	301 24 6.85	45.131	—1 33.9	**40.8**	15 3 3.46	+ 0.04	—19 38 12.5	....
33	β Libræ	11	12 5.45	— 0.14	—25. 51	312 0 8.75	47.484	—1 3.7	41. 5	15 11	.....	.. ..	....
34	α Coronæ Borealis	11	30 54.34	— 0.18	—25. 56	348 4 10.08	44.722	— 12.1	40. 8	15 30	....	.. ..	....
	October 20, K.												
35	6 B. Ursæ Minoris s. p.	3	13 59.87	+ 2.21	[—24. 28]	52 44	......	....	....	12 13	.....	.. ..	....
36	δ Piscium	11	43 59.75	— 0.19	[—25. 31]	328 4 9.68	45.750	— 36.6	[44. 2]	0 43	.....	.. ..	....
37	ε Piscium	11	58 15.30	-- 0.19	[—25. 29]	328 22 8.25	47.821	— 36.2	[44. 3]	0 57	.....	.. ..	....
38	α Ursæ Minoris	5	24 42.79	— 3.52	[—28. 67]	49 46	......	....	....	1 24	.....	.. ..	....
	October 21, K.												
39	6 B. Ursæ Minoris s. p.	5	14 1.64	+ 2.95	[—26. 59]	52 44	......	....	....	12 13	.....	.. ..	....
40	δ Piscium	11	43 59.99	— 0.22	[—25. 52]	328 4 8.30	45.732	— 35.9	[43. 1]	0 43	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
18 14 58	29.845	67.3	66.0
15 16	29.84	67.5	66.1
10 8	29.92	55.7	53.0
10 37	29.94	56.0	53.5
11 15	29.94	56.5	53.6
12 1	29.96	57.4	54.7
12 56	29.96	58.2	55.4
19 13 37	29.95	57.8	56.0
14 17	29.95	57.7	56.4
15 1	29.95	59.6	56.0
0 42	30.00	46.0	45.0
1 20	30.00	45.2	44.1
11 5	30.09	48.7	46.9
11 39	30.09	50.4	48.8
11 51	30.09	51.1	49.7
12 47	30.10	54.0	52.4
20 13 41	30.11	56.0	54.8
14 15	30.09	56.4	55.6
15 8	30.08	59.8	57.0
15 35	30.08	59.4	57.0
0 41	30.075	47.0	46.0
1 20	30.070	46.2	45.2
21 0 34	30.02	55.5	55.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7, 10, 11, 21, 27, 28.	Z. D. thread A used.
10.	Bisections at I, II.
11, 26.	Bisections at VI, VII.
24, 30, 34.	Bisections at II, VI, VII.
27.	Bisections at I, II, III.
28.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 6.1	....	— 0.2	+ 5.9
7	+ 4.9	+ 9.1	...	+ 14.0
10	+ 6.6	—16 7.0	...	—16 0.4
11	+ 6.7	+16 6.9	...	+16 13.6
15	+ 6.3	....	— 0.2	+ 6.1
21	+ 4.9	+ 9.0	...	+ 13.9
27	+ 6.7	+16 7.2	...	+16 13.9
28	+ 6.7	—16 7.3	...	—16 0.6
32	+ 6.4	....	— 0.2	+ 6.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Piscium	11	58 15.55	− 0.22	[−25. 51]	328 22 8.45	47.728	− 35.4	[43. 5]	0 57	.....	.. ..	....
2	α Ursæ Minoris	5	24 41.88	− 4.68	[−26. 58]	49 46	......	....	....	1 24	.....	.. ..	....
	October 21, Hh.												
3	Venus II, S	7	9 9.50	− 0.22	**−25.73**	327 22 7.82	45.182	− 36.5	**41.0**	11 8 43.55	− 0.59	+ 6 24 1.5	....
4	β Leonis	11	44 25.65	− 0.24	−25. 63	336 8 9.38	47.020	− 25.1	41. 9	11 43	.....	.. ..	....
5	α Canum Venat	11	51 48.51	− 0.31	−25. 82	359 52 9.40	44.526	− 0.1	40. 7	12 51	.....	.. ..	....
	October 22, Hh.												
6	Sun I, N	11	46 31.45	− 0.22	**−25.72**	310 10 6.55	46.752	−1 5.8	**41.0**	13 46 5.51	+65.76	−10 47 57.8	....
7	Sun II, S	11	48 42.96	− 0.22	**−25.72**	309 38 5.25	46.328	−1 7.1	**41.0**	13 48 17.02	−65.75	−11 20 11.2	....
8	α Bootis	11	11 33.52	− 0.28	−25. 66	340 44 7.92	41.819	− 19.4	40. 4	14 11	.....	.. ..	....
9	α Coronæ Borealis	5	30 54.63	− 0.30	−25. 75	348 4 11.75	44.587	− 11.7	40. 7	15 30	.....	.. ..	....
10	α Scorpii	11	23 45.32	− 0.20	−25. 74	294 50 5.95	45.026	−1 58.9	40. 9	16 23	.....	.. ..	....
11	β Herculis	11	26 22.85	− 0.29	−25. 68	342 44 11.50	43.270	− 17.2	41. 2	16 25	.....	.. ..	....
12	ζ Ophiuchi	11	32 7.59	− 0.23	−25. 68	310 40 10.58	44.451	−1 4.3	40. 9	16 31	.....	.. ..	....
	October 23, B.												
13	δ Leonis	11	9 15.43	− 0.29	−25. 20	342 6 9.42	41.580	− 18.2	41. 1	11 8	.....	.. ..	....
14	ν Ursæ Majoris	11	13 32.59	− 0.33	−25. 20	354 38 7.12	47.528	− 5.2	40. 9	11 13	.....	.. ..	....
15	Venus II, S	8	17 50.49	− 0.25	**−25.18**	326 36 9.35	41.870	− 37.0	**41.1**	11 17 25.06	−0.59	+ 5 36 57.3	....
16	β Leonis	11	44 25.25	− 0.27	−25. 15	336 8 8.22	47.035	− 24.8	41. 6	11 43	.....	.. ..	....
17	γ Ursæ Majoris	11	49 1.42	− 0.43	[−25. 22]	15 16 9.10	41.964	+ 15.4	[42. 6]	11 48	.....	.. ..	....
18	δ² Corvi	11	25 9.02	− 0.18	−25. 19	305 4 8.05	45.809	−1 19.6	40. 5	12 24	.....	.. ..	....
	October 24, B.												
19	Sun I, N	9	54 7.67	− 0.14	**−25.21**	309 28 6.28	46.555	−1 7.4	**40.7**	13 53 42.32	+66.02	−11 30 3.4	....
20	Sun II, S	11	56 19.72	− 0.14	**−25.21**	308 56 7.48	45.923	−1 8.7	**40.7**	13 55 54.37	−66.03	−12 2 17.8	....
21	ε Bootis	11	41 4.07	− 0.29	−25.24	348 30 9.00	46.442	− 11.3	40. 2	14 40	.....	.. ..	....
22	α² Libræ	11	45 48.44	− 0.14	−25. 23	305 24 7.08	45.860	−1 18.0	41. 0	14 45	.....	.. ..	....
23	β Ursæ Minoris	11	51 19.91	− 0.82	[−25. 11]	35 34 9.65	44.201	+ 39.9	[42. 4]	14 50	.....	.. ..	....
24	β Libræ	3	12 5.10	− 0.17	−25. 13	312 0 7.42	47.337	−1 1.5	40. 2	15 11	.....	.. ..	....
25	Mercury I, C	11	23 45.26	− 0.12	**−25.22**	299 46 6.78	46.268	−1 36.6	**40.5**	15 23 19.92	+ 0.21	−21 15 53.1	....
26	α Coronæ Borealis	11	30 54.16	− 0.30	−25.28	348 4 9.80	44.629	− 11.7	40. 7	15 30	.....	.. ..	....
	October 24, K.												
27	6 B. Ursæ Minoris s. P.	5	13 57.64	+ 4.28	[−23. 12]	52 44	......	....	....	12 13	.....	.. ..	....
28	δ Piscium	11	43 59.47	− 0.24	[−24. 98]	328 4 7.95	45.730	− 35.4	[43. 3]	0 43	.....	.. ..	....
29	ε Piscium	3	58 15.15	− 0.24	[−25. 08]	328 22 8.28	47.630	− 35.0	[43. 7]	0 57	.....	.. ..	....
30	α Ursæ Minoris	5	24 45.04	− 6.66	[−27. 52]	49 46	......	....	....	1 24	.....	.. ..	....
	October 24, B.												
31	δ Leonis	11	9 15.07	− 0.24	−24. 87	342 6 9.60	41.626	− 18.5	42. 1	11 8	.....	.. ..	....
32	δ Crateris	8	14 47.93	− 0.15	−24. 92	306 48 8.20	43.509	−1 16.4	42. 5	11 14	.....	.. ..	....
33	β Leonis	11	44 24.85	− 0.22	−24. 78	336 8 8.62	47.000	− 25.3	41. 0	11 43	.....	.. ..	....
34	γ Ursæ Majoris	11	49 1.06	− 0.37	[−24. 89]	15 16 9.72	41.889	+ 15.7	[42. 5]	11 48	.....	.. ..	....
35	ε Virginis	11	57 38.96	− 0.21	−24. 80	332 30 9.02	47.196	− 29.6	41.2	12 57	.....	.. ..	....
36	η Ursæ Majoris	11	44 1.67	− 0.35	[−24. 87]	10 48 9.02	48.062	+ 10.9	[42. 2]	13 43	.....	.. ..	....
	October 25, B.												
37	Sun I, S	11	57 56.51	− 0.14	**−24.86**	308 36 8.05	43.422	−1 10.7	**41.0**	13 57 31.51	+66.20	−12 23 5.3	....
38	Sun II, N	11	0 8.92	− 0.14	**−24.86**	309 8 7.62	44.252	−1 9.4	**41.0**	13 59 43.92	−66.21	−11 50 50.7	....
39	β Ursæ Minoris	11	51 19.50	− 0.73	[−24. 80]	35 34 10.18	44.115	+ 40.6	[42.4]	14 50	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
21 1 20	30. 01	55. 1	54. 8
11 3	30. 05	58. 0	58. 6
11 57	30. 05	63. 6	62. 6
12 58	30. 06	67. 4	69. 9
22 13 49	30. 040	70. 0	71. 6
14 20	30. 04	70. 8	72. 9
15 38	30. 04	74. 2	74. 8
16 36	30. 04	75. 2	75. 3
23 11 0	30. 13	68. 8	67. 4
11 37	30. 14	70. 1	69. 0
12 8	30. 145	71. 3	70. 3
12 30	30. 15	72. 2	71. 0
24 13 56	30. 15	74. 2	74. 0
14 39	30. 14	75. 5	75. 2
15 29	30. 12	76. 8	75. 4
0 42	30. 17	65. 0	63. 8
1 20	30. 165	64. 0	63. 0
11 4	30. 25	62. 8	61. 0
12 4	30. 255	65. 0	63. 0
13 1	30. 26	66. 8	65. 1
25 14 0	30. 245	68. 3	66. 8
14 48	30. 23	69. 3	67. 8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 6, 7, 15, 19, 20, 37, 38.	Z. D. thread A used.
3, 24.	Bisections at I, II, VII.
6.	Bisections at I, II.
7, 14, 15.	Bisections at VI, VII.
9, 11.	Bisections at II, VI, VII.
19, 37.	Bisections at I, II, III.
20, 38.	Bisections at V, VI, VII.
29.	Bisection at I.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 4.9	+ 8.9	...	+ 13.8
6	+ 6.8	−16 6.7	...	−15 59.9
7	+ 6.8	+16 6.7	...	+16 13.5
15	+ 4.9	+ 8.7	...	+ 13.6
19	+ 6.8	−16 7.2	...	−16 0.4
20	+ 6.9	+16 7.1	...	+16 14.0
25	+ 6.8	....	− 0.3	+ 6.5
37	+ 6.9	+16 7.3	...	+16 14.2
38	+ 6.9	−16 7.3	...	−16 0.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Coronæ Borealis.	11	24 8.68	− 0.25	−24.84	350 28 8.65	44.344	− 9.4	39.9	15 23	.....	.. ..	....
2	Mercury I, C	11	28 37.21	− 0.08	**−24.87**	299 26 7.18	42.032	−1 39.7	**40.6**	15 28 12.26	+ 0.22	−21 37 17.2	....
3	α Coronæ Borealis.	11	30 53.65	− 0.24	−24.84	348 3 59.18	45.262	− 11.9	40.5	15 30	.....	.. ..	....
4	α Serpentis	11	39 47.56	− 0.17	−24.86	327 46 7.60	43.885	− 35.6	40.6	15 39	.....	.. ..	....
5	α Scorpii	11	23 44.34	− 0.06	−24.93	294 50 6.55	45.102	−2 0.6	41.0	16 23	.....	.. ..	....
	October 26, K.												
6	6 B Ursæ Minoris s. p. .	5	13 59.02	+ 3.47	[−23.09]	52 44	......	....	....	12 13	.....	.. ..	....
7	δ Piscium	11	43 58.82	− 0.27	[−24.30]	328 4 8.12	45.756	− 35.6	[43.7]	0 43	.....	.. ..	....
8	ε Piscium	11	58 14.47	− 0.27	[−24.37]	328 22 8.92	47.748	− 35.2	[44.4]	0 57	.....	.. ..	....
9	α Ursæ Minoris....	4	24 44.48	− 5.52	[−27.96]	49 46	......	....	....	1 24	.....	.. ..	....
	October 26, Br.												
10	α Canum Venat....	11	51 47.38	− 0.35	−24.58	359 52 7.32	44.628	− 0.1	42.2	12 51	.....	.. ..	....
	October 27, Br.												
11	Sun I, N	11	5 37.25	− 0.24	**−24.51**	308 28 7.80	40.992	−1 10.2	**42.3**	14 5 12.50	+66.45	−12 31 53.0	....
12	Sun II, S	11	7 50.14	− 0.24	**−24.51**	307 56 7.95	40.293	−1 11.5	**42.3**	14 7 25.39	−66.44	−13 4 9.7	....
13	ε Bootis	11	41 3.27	− 0.32	−24.41	348 30 8.40	46.501	− 11.3	41.6	14 40	.....	.. ..	....
14	β Libræ	8	12 4.46	− 0.24	−24.42	312 0 7.80	47.441	−1 1.3	42.4	15 11	.....	.. ..	....
15	Mercury C, C	11	38 2.39	− 0.22	**−24.44**	298 46 7.12	45.698	−1 40.1	**42.3**	15 37 37.73	+ 0.06	−22 16 9.0	....
16	δ Scorpii	10	54 52.49	− 0.22	−24.46	298 42 7.08	45.303	−1 40.4	43.2	15 54	.....	.. ..	....
17	β Scorpii	11	0 4.59	− 0.22	−24.49	301 30 6.78	45.774	−1 29.8	43.0	15 59	.....	.. ..	....
18	η Ophiuchi	11	5 6.05	− 0.25	−24.49	305 26 7.68	44.825	−1 17.4	42.1	17 4	.....	.. ..	....
19	α¹ Herculis	11	10 31.85	− 0.29	−24.30	335 32 8.15	43.430	− 25.1	41.7	17 10	.....	.. ..	....
20	θ Ophiuchi	11	16 19.71	− 0.21	−24.41	296 8 7.10	46.832	−1 51.9	42.2	17 15	.....	.. ..	....
21	Moon I.	11	24 0.85	− 0.22	**−24.39**	298 48	......	....	....	17 23 36.24	+67.95	.. ..	....
22	α Ophiuchi	11	30 44.28	− 0.28	−24.31	333 40 8.78	42.718	− 27.3	42.3	17 30	.....	.. ..	....
23	μ Herculis	11	42 59.06	− 0.32	−24.42	348 48 8.20	44.556	− 10.9	42.2	17 42	.....	.. ..	....
	October 27, K.												
24	6 B Ursæ Minoris s. p. .	4	13 58.48	+ 5.06	[−23.94]	52 44	......	....	....	12 13	.....	.. ..	....
25	δ Piscium	11	43 58.60	− 0.28	[−24.07]	328 4 7.92	45.811	− 35.4	[44.8]	0 43	.....	.. ..	....
26	ε Piscium	11	58 14.23	− 0.28	[−24.12]	328 22 7.20	47.888	− 35.0	[45.6]	0 57	.....	.. ..	....
27	α Ursæ Minoris....	5	24 43.56	− 7.84	[−24.72]	49 46	......	....	....	1 24	.....	.. ..	....
	October 29, Hh.												
28	η Serpentis	11	16 34.95	− 0.19	−23.93	318 6 8.32	45.772	− 50.4	43.4	18 16	.....	.. ..	....
29	λ Sagittarii	10	22 15.39	− 0.15	−23.96	295 34 6.82	45.416	−1 56.8	43.5	18 21	.....	.. ..	....
30	1 Aquilæ	11	30 13.00	− 0.18	−23.95	312 42 7.50	48.309	−1 0.9	42.7	18 29	.....	.. ..	....
31	σ Sagittarii	11	49 31.54	− 0.15	−24.05	294 38 7.02	43.746	−2 2.1	42.7	18 49	.....	.. ..	....
32	Moon I, S	11	16 30.74	− 0.16	**−23.95**	301 30 7.38	42.701	−1 31.6	**42.9**	19 16 6.63	+68.21	−19 29 43.7	....
33	δ Aquilæ	11	20 54.45	− 0.20	−23.90	323 56 8.90	46.899	− 41.1	42.9	19 20	.....	.. ..	....
34	κ Aquilæ	11	31 58.07	− 0.18	−23.92	313 46 8.70	47.969	− 58.9	42.4	19 31	.....	.. ..	....
	October 29, K.												
35	6 B Ursæ Minoris s. p. .	5	14 0.22	+ 2.70	[−22.62]	52 44	......	....	....	12 13	.....	.. ..	....
36	δ Piscium	11	43 58.25	− 0.19	[−23.81]	328 4 8.72	45.775	− 35.6	[44.7]	0 43	.....	.. ..	....
37	ε Piscium	11	58 13.81	− 0.19	[−23.79]	328 22 8.62	47.820	− 35.2	[45.5]	0 57	.....	.. ..	....
38	α Ursæ Minoris....	5	24 39.82	− 4.23	[−24.82]	49 46	......	....	....	1 24	.....	.. ..	....
	October 29, Br.												
39	Venus II, S......	11	43 56.67	− 0.18	**−23.86**	324 10 8.88	39.355	− 41.3	**41.8**	11 43 32.63	− 0.56	+ 3 10 4.9	....
40	γ Corvi	10	11 6.10	− 0.17	−23.78	304 2 8.30	47.215	−1 24.2	41.9	12 10	.....	.. ..	....
41	α Canum Venat ...	11	51 46.73	− 0.24	−23.99	359 52 8.78	44.480	− 0.1	41.7	12 51	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
25 15 56	30.22	71.2	69.2
16 28	30.15	71.3	69.8
26 0 41	30.04	59.8	58.7
1 20	30.025	59.8	58.4
12 45	29.955	63.9	61.8
27 14 8	29.94	68.7	68.6
14 48	29.92	71.8	72.2
15 15	29.91	73.9	74.0
15 42	29.91	75.0	74.5
16 5	29.91	74.1	74.1
17 47	29.895	73.9	74.0
0 38	29.92	60.8	60.0
1 20	29.92	60.3	59.2
29 18 25	29.84	65.5	63.8
19 1	29.84	64.3	62.8
19 36	29.83	62.4	60.9
0 41	29.81	56.0	55.2
1 20	29.81	55.6	55.0
11 47	29.85	57.2	55.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 40.	Bisections at VI, VII.
11, 12, 32, 39.	Z. D. thread A used.
11.	Bisections at I, II, III.
12.	Bisections at V, VI, VII.
16, 28.	Bisections at II, VI, VII.
32.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 6.9	....	− 0.3	+ 6.6
11	+ 6.9	−16 8.3	...	−16 1.4
12	+ 7.0	+16 8.3	...	+16 15.3
15	+ 7.2	....	− 0.3	+ 6.9
32	+48 25.4	+15 34.2	...	+63 59.6
39	+ 5.0	+ 8.3	...	+ 13.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Virginis.........	9	57 38.00	− 0.20	−23.78	332 30 8.35	47.224	− 29.5	42.1	12 57	.....	.. ..	....
2	α Virginis.........	11	20 21.73	− 0.18	−23.80	310 24 8.22	42.571	−1 6.3	41.7	13 19	.....	.. ..	....
	October 30, Br.												
3	Sun I, S.........	11	17 13.75	− 0.19	**−23.81**	306 56 7.92	40.237	−1 14.4	**41.8**	14 16 49.75	+66.61	−14 4 11.0	....
4	Sun II, N........	11	19 26.96	− 0.19	**−23.81**	307 28 7.48	41.223	−1 13.0	**41.8**	14 19 2.96	−66.60	−13 31 53.3	....
5	α Coronæ Borealis .	11	30 52.65	− 0.26	−23.84	348 4 9.52	44.615	− 11.8	41.3	15 30	.....	.. ..	....
6	α Serpentis.......	11	39 46.46	− 0.22	−23.73	327 46 7.80	43.858	− 35.2	41.7	15 39	.....	.. ..	....
7	κ Ophiuchi........	11	53 22.07	− 0.23	−23.71	330 34 7.62	42.271	− 31.4	41.6	16 52	.....	.. ..	....
8	η Ophiuchi........	11	5 5.26	− 0.20	−23.78	305 26 6.70	44.928	−1 18.1	42.3	17 4	.....	.. ..	....
9	β Aquilæ..........	11	50 51.04	− 0.24	−23.70	327 12 8.32	42.105	− 36.1	42.5	19 50	.....	.. ..	....
10	θ Aquilæ..........	11	6 35.99	− 0.22	−23.77	319 54 7.82	47.339	− 47.2	42.4	20 6	.....	.. ..	....
11	Moon I, S........	11	12 27.39	− 0.20	**−23.72**	304 40 6.30	44.714	−1 20.8	**43.0**	20 12 3.47	+67.94	−16 18 55.5	....
12	π Capricorni.......	11	22 3.56	− 0.20	−23.80	302 30 7.28	45.262	−1 27.9	43.4	20 21	.....	.. ..	....
13	ε Delphini	11	28 53.16	− 0.24	−23.61	332 0 8.55	43.260	− 29.9	43.5	20 28	.....	.. ..	....
	October 30, K.												
14	6 B. Ursæ Minoris s. p .	5	13 59.64	+ 3.19	[−22.23]	52 44	......	....	....	12 13	.....	.. ..	....
15	δ Piscium	11	43 58.09	− 0.26	[−23.58]	328 4	......	....	....	0 43	.....	.. ..	....
16	ε Piscium	11	58 13.65	− 0.26	[−23.56]	328 22	......	....	....	0 57	.....	.. ..	....
17	α Ursæ Minoris	5	24 41.32	− 5.13	[−25.61]	49 46	......	....	....	1 24	.....	.. ..	....
	November 2, Ei.												
18	4 Capricorni.......	11	12 35.69	− 0.25	−22.86	298 56 7.30	43.579	−1 42.1	44.5	20 12	.....	.. ..	....
19	υ Capricorni.......	11	34 48.24	− 0.26	−22.82	302 32 7.95	48.190	−1 28.6	42.9	20 34	.....	.. ..	....
20	θ Capricorni.......	11	0 46.44	− 0.26	−22.79	303 24 8.18	47.010	−1 25.8	44.3	21 0	.....	.. ..	....
21	ν Aquarii..........	11	4 35.67	− 0.27	−22.85	309 14 7.82	50.080	−1 9.4	43.2	21 4	.....	.. ..	....
22	ι Aquarii..........	11	1 29.31	− 0.26	−22.85	306 42 8.05	42.156	−1 16.4	44.6	22 1	.....	.. ..	....
23	Moon I, S	11	59 1.58	− 0.29	**−22.76**	319 8 8.52	46.843	− 49.4	**44.3**	22 58 38.53	+68.17	− 1 49 42.4	....
24	κ Piscium	11	22 15.56	− 0.29	−22.65	321 44 8.40	46.412	− 45.1	44.4	23 21	.....	.. ..	....
	November 4, B.												
25	δ Piscium	11	43 56.74	− 0.23	−22.28	328 4 8.55	45.666	− 35.8	42.3	0 43	.....	.. ..	....
26	μ Andromedæ	11	51 40.05	− 0.33	−22.34	358 58 9.00	46.998	− 1.0	41.3	0 51	.....	.. ..	....
27	Moon I, S........	11	54 45.73	− 0.24	**−22.32**	330 10 9.10	48.329	− 32.9	**42.3**	0 54 23.17	+70.37	+ 9 13 5.2	....
28	β Andromedæ	11	4 35.85	− 0.32	−22.35	356 6 8.58	47.175	− 3.9	42.4	1 4	.....	.. ..	....
29	f Piscium	11	13 5.61	− 0.22	−22.31	324 8 8.82	42.206	− 41.7	43.2	1 12	.....	.. ..	....
	November 4, S.												
30	β Leonis	11	44 22.60	− 0.11	−22.40	336 8 7.68	47.016	− 25.2	42.8	11 44	.....	.. ..	....
31	ο Virginis.........	10	0 31.88	− 0.09	−22.38	330 18 7.12	45.835	− 32.5	42.3	12 0	.....	.. ..	....
32	Venus II, S.......	11	10 10.37	− 0.07	**−22.47**	321 36 6.48	40.719	− 45.0	**41.8**	12 9 47.83	− 0.54	+ 0 36 25.0	....
33	α Canum Venat....	11	51 45.42	− 0.20	−22.62	359 52 6.50	44.438	− 0.1	40.6	12 51	.....	.. ..	....
34	α Virginis.........	11	20 20.34	− 0.05	−22.46	310 24 6.02	42.629	−1 6.1	41.2	13 19	.....	.. ..	....
	November 5, S.												
35	Sun I, S.........	11	40 46.90	− 0.06	**−22.46**	305 2 7.72	40.587	−1 19.3	**41.0**	14 40 24.38	+67.38	−15 58 8.6	....
36	Sun II, N........	11	43 1.65	− 0.06	**−22.46**	305 34 8.05	41.578	−1 17.8	**41.0**	14 42 39.13	−67.37	−15 25 49.9	....
37	α Serpentis........	11	39 45.03	− 0.16	−22.35	327 46 6.20	43.858	− 35.0	40.7	15 39	.....	.. ..	....
38	δ Scorpii	11	54 50.39	− 0.09	−22.49	298 42 6.40	45.260	−1 41.0	41.3	15 54	.....	.. ..	....
39	β¹ Scorpii	6	0 2.49	− 0.10	−22.52	301 30 5.62	45.673	−1 30.3	39.8	15 59	.....	.. ..	....
40	Mercury I, C.....	11	10 53.58	− 0.10	**−22.46**	297 8 5.58	41.625	−1 47.6	**40.6**	16 10 31.02	+ 0.28	−23 52 19.7	....
41	α Scorpii	11	23 41.87	− 0.09	−22.47	294 50 4.98	45.119	−1 59.1	40.7	16 23	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
29 13 1	29.87	62.5	61.0
13 24	29.87	63.8	62.3
30 14 19	29.86	66.0	65.0
15 25	29.845	67.8	67.0
16 10	29.85	69.0	68.0
17 8	29.85	70.0	69.2
19 47	29.875	67.5	66.4
20 33	29.89	66.1	65.2
2 20 15	30.07	64.0	63.9
20 30	30.07	64.0	63.4
21 28	30.08	63.0	62.5
22 26	30.08	60.0	59.3
23 19	30.08	60.0	59.2
4 0 39	29.67	51.0	51.0
1 15	29.675	49.3	48.8
11 52	29.68	53.6	54.6
12 39	29.68	57.8	57.5
13 21	29.68	61.5	61.1
5 14 43	29.65	63.2	64.4
15 40	29.63	65.2	66.4
16 37	29.63	67.4	67.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 4, 11, 23, 27, 32, 35, 36, 40.	Z. D. thread A used.
3, 35.	Bisections at I, II, III.
4, 36.	Bisections at V, VI, VII.
6.	Bisections at I, II, VII.
11, 23, 27.	Bisections at II, III, IV, V, VI.
31.	Bisections at VI, VII.
38.	Bisections at II, VI.
39.	Bisections at I, II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 7.1	+16 8.8	...	+16 15.9
4	+ 7.0	−16 8.8	...	−16 1.8
11	+47 17.9	+15 46.5	...	+63 4.4
23	+39 0.7	+16 23.9	...	+55 24.6
27	+29 58.7	+16 38.0	...	+46 36.7
32	+ 5.1	+ 8.0	...	+ 13.1
35	+ 7.3	+16 9.3	...	+16 16.6
36	+ 7.2	−16 9.3	...	−16 2.1
40	+ 8.8	....	− 0.5	+ 8.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	November 5, K.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	6 B. Ursæ Minoris S. P. .	5	14 4.66	+ 2.81	[−24. 67]	52 44	......	....	....	12 13	.....	.. ..	....
2	δ Piscium	11	43 56.68	− 0.20	[−22. 25]	328 4 8.72	45.769	− 35.8	[44. 4]	0 43	.....	.. ..	....
3	ε Piscium	11	58 12.27	− 0.20	[−22. 25]	328 22 7.90	47.825	− 35.4	[44. 8]	0 57	.....	.. ..	....
4	α Ursæ Minoris	4	24 35.55	− 4.44	[−21. 87]	49 46	......	....	....	1 24	.....	.. ..	....
	November 5, Br.												
5	γ Corvi............	11	11 4.88	− 0.12	−22. 46	304 2 7.68	47.316	−1 25.8	43. 6	12 10	.....	.. ..	....
6	Venus II, S......	11	14 34.11	− 0.15	**−22. 47**	321 10 8.70	40.492	− 46.7	**43. 0**	12 14 11.49	− 0.53	+ 0 10 19.5	....
7	β Corvi............	11	29 33.18	− 0.11	−22. 56	298 12 6.40	44.136	−1 47.9	44. 0	12 29	.....	.. ..	....
8	γ Virginis (*mean*) .	11	37 0.49	− 0.14	−22. 33	320 4 8.12	44.912	− 48.5	42. 6	12 36	.....	.. ..	....
9	α Canum Venat	11	51 45.44	− 0.22	−22. 60	359 52 8.05	44.431	− 0.1	42. 3	12 51	.....	.. ..	....
10	ε Virginis	11	57 36.71	− 0.16	−22. 41	332 30 8.05	47.204	− 30.2	42. 1	12 57	.....	.. ..	....
	November 6, Br.												
11	Sun I, N.........	11	44 45.58	− 0.12	**−22. 46**	305 16 7.88	41.447	−1 21.2	**42. 2**	14 44 23.00	+67.56	−15 43 55.0	....
12	Sun II, S.........	11	47 0.70	− 0.12	**−22. 46**	304 44 7.82	40.478	−1 22.8	**42. 2**	14 46 38.12	−67.56	−16 16 17.5	....
13	Mercury I, C.....	11	12 58.63	− 0.11	**−22. 44**	297 10 7.15	42.925	−1 51.2	**41. 7**	16 12 36.08	+ 0.28	−23 53 12.6	....
14	α Scorpii	11	23 41.87	− 0.11	−22. 45	294 50 6.95	45.291	−2 3.1	41. 9	16 23	.....	.. ..	....
15	ζ Ophiuchi........	10	32 4.16	− 0.13	−22. 43	310 40 7.85	44.706	−1 6.6	41. 1	16 31	.....	.. ..	....
16	κ Ophiuchi........	11	53 20.65	− 0.16	−22. 41	330 34 8.22	42.216	− 32.3	41. 1	16 52	.....	.. ..	....
17	η Ophiuchi........	10	5 3.87	− 0.12	−22. 51	305 26 7.68	44.965	−1 20.3	41. 8	17 4	.....	.. ..	....
18	α¹ Herculis.........	11	10 29.74	− 0.17	−22. 40	335 32 8.20	43.390	− 26.0	41. 4	17 10	.....	.. ..	....
	November 6, S.												
19	β Leonis	11	44 22.49	− 0.16	−22. 20	336 8 6.85	47.035	− 25.5	42. 4	11 44	.....	.. ..	....
20	π Virginis	11	56 9.84	− 0.15	−22. 21	328 12 6.52	42.960	− 35.8	42. 5	11 55	.....	.. ..	....
21	o Virginis	11	0 31.76	− 0.15	−22. 16	330 18 5.45	45.922	− 32.9	42. 3	12 0	.....	.. ..	....
22	ε Corvi............	11	5 23.75	− 0.10	−22. 19	298 58 3.68	46.509	−1 43.7	42. 6	12 5	.....	.. ..	....
23	γ Corvi............	11	11 4.72	− 0.10	−22. 30	304 2 6.10	47.280	−1 25.0	42. 3	12 10	.....	.. ..	....
24	Venus I, S	6	18 56.87	− 0.13	**−22. 22**	320 44 7.75	39.890	− 47.0	**42. 4**	12 18 34.52	+ 0.32	− 0 15 52.2	....
25	Venus II, N......	5	18 57.72	− 0.13	**−22. 22**	320 44 7.75	40.695	− 47.0	**42. 4**	12 18 35.37	− 0.53	− 0 15 36.8	....
	November 7, S.												
26	Sun I, N.........	11	48 44.95	− 0.11	**−22. 27**	304 58 7.42	41.812	−1 20.6	**41. 8**	14 48 22.57	+67.50	−16 1 47.4	....
27	Sun II, S	11	50 59.95	− 0.11	**−22. 27**	304 26 7.68	41.013	−1 22.3	**41. 8**	14 50 37.57	−67.50	−16 34 6.5	....
28	α Serpentis........	11	39 44.94	− 0.14	−22. 28	327 46 7.50	43.856	− 35.6	41. 6	15 39	.....	.. ..	....
29	δ Scorpii	9	54 50.35	− 0.10	−22. 44	298 42 6.45	45.492	−1 42.5	42. 8	15 54	.....	.. ..	....
30	δ Ophiuchi........	11	9 30.95	− 0.13	−22. 26	317 36 8.05	42.750	− 51.4	40. 6	16 9	.....	.. ..	....
31	Mercury I, C.....	11	14 35.83	− 0.09	**−22. 30**	297 10 5.65	37.476	−1 49.1	**41. 5**	16 14 13.44	+ 0.29	−23 51 41.6	....
32	α Scorpii	11	23 41.67	− 0.09	−22. 27	294 50 6.10	45.195	−2 0.8	41. 4	16 23	.....	.. ..	....
33	ζ Ophiuchi........	11	32 3.95	− 0.12	−22. 23	310 40 6.58	44.725	−1 5.4	41. 4	16 31	.....	.. ..	....
	November 8, S.												
34	β Leonis	10	44 22.47	− 0.01	−22. 28	336 8 10.20	46.950	− 26.0	42. 4	11 44	.....	.. ..	....
35	ε Corvi............	11	5 23.84	+ 0.09	−22. 41	298 58 7.18	46.490	−1 45.6	43. 4	12 5	.....	.. ..	....
36	γ Corvi............	11	11 4.81	+ 0.07	−22. 51	304 2 7.68	47.236	−1 26.6	41. 5	12 10	.....	.. ..	....
37	Venus I, N	6	27 45.95	+ 0.03	**−22. 40**	319 52 7.92	38.578	− 49.4	**42. 6**	12 27 23.58	+ 0.32	− 1 8 19.8	....
38	Venus II, S......	5	27 46.80	+ 0.03	**−22. 40**	319 52 7.92	37.815	− 49.4	**42. 6**	12 27 24.43	− 0.53	− 1 8 34.4	....
	November 9, S.												
39	Sun I, S.	11	56 46.29	+ 0.07	**−22. 42**	303 52 7.38	38.280	−1 26.4	**42. 6**	14 56 23.94	+67.83	−17 9 1.8	....
40	Sun II, N.........	11	59 1.95	+ 0.07	**−22. 42**	304 24 7.45	39.462	−1 24.7	**42. 6**	14 58 39.60	−67.83	−16 36 39.6	....
41	α Serpentis........	11	39 44.93	+ 0.02	−22. 42	327 46	......	....	....	15 39	.....	.. ..	....
42	α Scorpii	7	23 41.70	+ 0.10	−22. 49	294 50 5.50	45.514	−2 4.5	43. 4	16 23	.....	.. ..	....
43	α Ophiuchi........	11	30 41.91	0.00	−22. 34	333 40 8.42	42.718	− 28.7	42. 1	17 30	.....	.. ..	....
44	μ Herculis.........	11	42 56.68	− 0.04	−22. 50	348 48 8.95	44.485	− 11.4	42. 6	17 42	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
5 0 41	29.78	52.3	51.5
1 20	29.78	51.3	51.0
12 19	29.935	50.5	49.0
13 3	29.935	51.6	50.0
6 14 47	29.90	54.0	52.8
16 7	29.87	56.6	54.7
16 36	29.87	57.8	55.2
17 14	29.87	57.4	55.7
11 48	29.79	51.0	50.1
12 25	29.79	52.9	52.0
7 14 51	29.73	58.9	58.7
15 33	29.70	59.9	60.0
16 36	29.675	62.6	61.3
8 11 46	29.46	38.2	36.2
12 20	29.48	39.1	37.3
9 14 59	29.545	43.8	42.3
15 43	29.56	45.0	44.0
17 32	29.58	45.9	44.7
17 44	29.59	45.8	44.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

6, 8, 11, 12, 24, 25, 26, 27, 31, 37, 38, 39, 40.	Z. D. thread A used.
6, 35, 44.	Bisections at II, VI, VII.
8, 20, 21, 29, 34.	Bisections at VI, VII.
11, 26, 39.	Bisections at I, II, III.
12, 27, 40.	Bisections at V, VI, VII.
24, 38.	Bisections at I, VII.
25, 37.	Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 5.2	+ 7.9	...	+ 13.1
11	+ 7.3	−16 11.2	...	−16 3.9
12	+ 7.3	+16 11.3	...	+16 18.6
13	+ 9.0	....	− 0.5	+ 8.5
24	+ 5.2	+ 8.0	...	+ 13.2
25	+ 5.2	− 8.0	+ 0.6	− 2.2
26	+ 7.3	−16 9.5	...	−16 2.2
27	+ 7.4	+16 9.5	...	+16 16.9
31	+ 9.2	....	− 0.5	+ 8.7
37	+ 5.2	− 7.6	+ 0.6	− 1.8
38	+ 5.2	+ 7.6	...	+ 12.8
39	+ 7.4	+16 11.0	...	+16 18.4
40	+ 7.3	−16 11.1	...	−16 3.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	November 9, K.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	6 B. Ursæ Minoris S. P.	6	14 0.95	+ 5.67	[−22.12]	52 44	......	....	....	12 13	.....	.. ..	....
2	δ Piscium	11	43 56.58	− 0.09	[−22.27]	328 4 8.45	45.826	− 36.8	[44.4]	0 43	.....	.. ..	....
3	ε Piscium	11	58 12.20	− 0.09	[−22.40]	328 22 8.45	47.842	− 36.4	[44.7]	0 57	.....	.. ..	....
4	α Ursæ Minoris....	5	24 39.22	− 8.19	[−22.36]	49 46	......	....	....	1 24	.....	.. ..	....
	November 9, Hd.												
5	χ Aurigæ..........	11	26 41.68	− 0.10	−22.68	353 8 8.40	44.624	− 7.1	42.7	5 26	.....	.. ..	....
6	α Orionis..........	11	50 12.68	− 0.02	−22.44	328 24 9.12	46.994	− 36.6	44.1	5 49	.....	.. ..	....
7	Neptune C, C....	11	55 28.23	− 0.07	**−22.52**	343 14 9.00	41.710	− 17.9	**43.7**	5 55 5.64	.....	+22 11 56.8	....
8	ν Orionis..........	11	2 19.15	− 0.04	−22.41	335 48 8.38	44.848	− 26.7	43.9	6 1	.....	.. ..	....
9	Moon II, S.......	11	12 34.96	− 0.06	**−22.52**	341 6 9.45	46.845	− 20.3	**43.7**	6 12 12.38	−70.84	+20 8 48.2	....
10	μ Geminorum	11	17 22.39	− 0.07	−22.51	343 34 9.78	47.438	− 17.5	43.6	6 16	.....	.. ..	....
11	ν Geminorum	11	23 29.16	− 0.06	−22.54	341 18 9.70	43.310	− 20.1	44.0	6 23	.....	.. ..	....
	November 9, Br.												
12	Venus II, S......	11	32 12.20	+ 0.08	**−22.64**	319 24 8.58	42.581	− 50.4	**42.5**	12 31 49.64	− 0.52	− 1 35 3.3	....
13	α Canum Venat....	11	51 45.56	− 0.08	−22.78	359 52 8.72	44.300	− 0.1	41.6	12 51	.....	.. ..	....
14	ε Virginis.........	11	57 36.77	+ 0.03	−22.58	332 30 9.32	47.174	− 30.6	43.2	12 57	.....	.. ..	....
15	α Virginis.........	10	20 20.46	+ 0.10	−22.64	310 24 7.72	42.739	−1 8.9	42.7	13 19	.....	.. ..	....
16	ζ Virginis.........	11	30 0.78	+ 0.06	−22.71	320 56 7.88	45.515	− 47.6	41.5	13 29	.....	.. ..	....
17	η Bootis...........	11	50 19.91	0.00	−22.61	339 54 10.28	47.205	− 21.4	42.7	13 49	.....	.. ..	....
18	α Bootis...........	11	11 30.34	− 0.02	−22.60	340 44 8.95	41.678	− 20.4	42.1	14 11	.....	.. ..	....
	November 10, Br.												
19	Sun I, S.........	11	0 48.51	+ 0.07	**−22.67**	303 34 8.25	41.333	−1 27.7	**42.0**	15 0 25.91	+68.03	−17 26 3.1	....
20	Sun II, N........	11	3 4.57	+ 0.07	**−22.67**	304 6 9.25	42.605	−1 26.0	**42.0**	15 2 41.97	−68.03	−16 53 38.2	....
21	Mercury C, C....	11	16 12.41	+ 0.07	**−22.69**	297 32 7.00	44.026	−1 51.1	**41.7**	16 15 49.79	+ 0.16	−23 30 51.6	....
22	α Scorpii..........	11	23 41.95	+ 0.08	−22.72	294 50 6.72	45.408	−2 4.9	41.2	16 23	.....	.. ..	....
23	α¹ Herculis.........	11	10 29.84	− 0.05	−22.64	335 32 8.38	43.368	− 26.4	41.4	17 10	.....	.. ..	....
24	α Ophiuchi........	11	30 42.25	− 0.05	−22.64	333 40 8.50	42.699	− 28.7	41.9	17 30	.....	.. ..	....
25	μ Herculis.........	11	42 56.96	− 0.10	−22.72	348 48 8.82	44.389	− 11.4	41.5	17 42	.....	.. ..	....
26	θ Herculis.........	11	53 13.35	− 0.14	−22.77	358 16 8.18	47.458	− 1.7	41.6	17 52	.....	.. ..	....
	November 11, S.												
27	β Leonis	11	44 23.15	− 0.02	−22.87	336 8 9.75	46.892	− 26.2	43.0	11 44	.....	.. ..	....
28	Venus I, N	6	41 3.27	+ 0.03	**−22.94**	318 32 7.48	40.092	− 51.8	**42.3**	12 40 40.36	+ 0.32	− 2 27 53.3	....
29	Venus II, S......	5	41 4.12	+ 0.03	**−22.94**	318 32 7.48	39.238	− 51.8	**42.3**	12 40 41.21	− 0.53	− 2 28 9.7	....
30	α Canum Venat....	11	51 45.85	− 0.11	−22.99	359 52	......	....	....	12 51	.....	.. ..	....
31	ε Virginis.........	11	57 37.10	− 0.01	−22.83	332 30 7.88	47.152	− 30.4	41.9	12 57	.....	.. ..	....
32	η Bootis...........	11	50 20.32	− 0.03	−22.97	339 54	......	....	....	13 49	.... .	.. ..	....
33	α Bootis...........	11	11 30.72	− 0.04	−22.94	340 44 8.62	41.649	− 20.4	41.7	14 11	.....	.. ..	....
	November 12, S.												
34	Sun I, S.........	11	8 55.43	+ 0.07	**−23.01**	303 2 7.10	37.970	−1 29.2	**41.6**	15 8 32.49	+68.21	−17 59 9.8	....
35	Sun II, N........	11	11 11.85	+ 0.07	**−23.01**	303 34 7.32	39.138	−1 27.5	**41.6**	15 10 48.91	−68.21	−17 26 47.8	....
36	α Scorpii..........	11	23 42.35	+ 0.09	−23.13	294 50 4.70	45.528	−2 4.7	40.6	16 23	.....	.. ..	....
37	β Herculis.........	11	26 19.86	− 0.04	−23.06	342 44 6.58	43.384	− 18.0	42.1	16 25	.....	.. ..	....
38	η Herculis.........	11	39 51.95	− 0.11	−23.15	0 8 7.60	43.490	+ 0.2	41.3	16 39	.....	.. ..	....
39	κ Ophiuchi........	11	53 21.05	− 0.01	−22.98	330 34 8.00	42.194	− 32.7	40.9	16 52	.....	.. ..	....
	November 12, Hd.												
40	γ Cancri...........	11	37 57.65	− 0.02	−23.34	342 50 9.38	46.158	− 18.2	44.5	8 37	.....	.. ..	....
41	ε Hydræ..........	11	41 56.08	+ 0.04	23.31	327 48 8.08	45.751	− 37.2	44.3	8 41	.....	.. ..	....
42	Moon II, S.......	11	57 40.53	+ 0.02	**−23.34**	332 24 8.45	44.732	− 30.8	**44.2**	8 57 17.21	−64.20	+11 25 55.7	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
9 0 41	29.76	39.0	38.3
1 35	29.78	38.3	38.0
5 30	29.835	36.1	36.4
6 27	29.84	36.5	36.0
12 39	29.93	43.2	42.6
13 1	29.915	44.0	43.3
13 34	29.91	45.4	44.1
13 57	29.92	46.0	44.7
14 16	29.9[illegible]5	46.8	46.0
10 15 3	29.90	47.1	45.8
16 28	29.88	49.8	47.9
17 14	29.87	51.6	49.7
17 58	29.865	51.5	50.0
11 11 45	29.78	39.2	37.0
12 50	29.775	43.5	42.7
14 15	29.76	45.8	44.5
12 15 11	29.74	46.5	45.0
16 32	29.685	48.5	45.9
16 50	29.68	49.0	46.0
8 27	29.59	37.4	36.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

9, 12, 19, 20, 28, 29, 34, 35, 42.	Z. D. thread A used.
9, 42.	Bisections at II, III, IV, V, VI.
17, 22.	Bisections at II, VI, VII.
19, 34.	Bisections at I, II, III.
20, 35.	Bisections at V, VI, VII.
28.	Bisections at II, VI.
29.	Bisections at I, VII.
36, 38.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+ 0.1	....	...	+ 0.1
9	+18 31.9	+15 53.7	...	+34 25.6
12	+ 5.2	+ 7.8	...	+ 13.0
19	+ 7.4	+16 12.5	...	+16 19.9
20	+ 7.4	−16 12.4	...	−16 5.0
21	+ 9.9	....	− 0.7	+ 9.2
28	+ 5.3	− 8.5	+ 0.6	− 2.6
29	+ 5.3	+ 8.5	...	+ 13.8
34	+ 7.5	+16 11.0	...	+16 18.5
35	+ 7.5	−16 11.0	...	−16 3.5
42	+25 26.5	+15 10.0	...	+40 36.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	κ Cancri	11	2 47.11	+ 0.02	−23.35	332 6 8.42	42.456	− 31.3	44.5	9 2	.....	.. ..	....
2	ο Leonis	11	36 15.79	+ 0.02	−23.32	331 22 9.05	44.248	− 32.3	43.8	9 35	.....	.. ..	....
3	ε Leonis	11	40 37.80	− 0.03	−23.42	345 14 9.32	46.994	− 15.6	44.1	9 40	.....	.. ..	....
4	Mars I, C.........	6	54 28.18	+ 0.01	**−23.36**	335 46 8.20	47.780	− 26.6	**44.2**	9 54 4.83	+ 0.37	+14 45 41.8	....
5	Mars II.........	5	54 29.00	+ 0.01	**−23.36**	... .	......	....	....	9 54 5.65	− 0.45	.. ..	....
6	γ¹ Leonis	11	14 54.49	− 0.02	−23.41	341 22 9.00	43.369	− 19.9	44.0	10 14	.....	.. ..	....
7	ρ Leonis	11	27 59.35	+ 0.02	−23.30	330 50 8.90	45.579	− 33.0	44.0	10 27	.....	.. ..	....
	November 19, K.												
8	6 B. Ursæ Minoris s. p.	4	14 8.79	+ 8.98	[−28.57]	307 8	......	....	....	12 13	.....	.. ..	....
9	δ Piscium	11	44 1.15	− 0.30	[−26.69]	31 48	......	....	....	0 43	.....	.. ..	....
10	ε Piscium	11	58 16.76	− 0.31	[−26.68]	31 30	......	....	....	0 57	.....	.. ..	....
11	α Ursæ Minoris....	4	24 41.60	−13.40	[−23.61]	310 6	......	....	....	1 24	.....	.. ..	....
	November 21, Br.												
12	ε Virginis.........	11	57 41.58	− 0.15	−26.95	27 22 12.30	42.678	+ 30.1	17.7	12 57	.....	.. ..	....
13	α Virginis.........	11	20 25.16	− 0.04	−26.94	49 28 12.02	47.071	+1 7.8	16.4	13 19	.....	.. ..	....
14	Venus II, S	11	26 0.34	− 0.06	**−26.95**	45 42 11.40	41.606	+ 59.5	**17.1**	13 25 33.33	−0.49	− 6 53 56.1	....
15	ζ Virginis.........	11	30 5.47	− 0.10	−26.99	38 56 11.75	44.282	+ 46.8	17.6	13 29	.....	.. ..	....
16	α Bootis...........	11	11 35.03	− 0.20	−26.93	19 8 11.65	48.095	+ 20.1	16.8	14 11	.....	.. ..	....
	November 22, Br.												
17	Sun I, N.........	11	50 24.18	+ 0.02	**−26.92**	58 40 9.88	43.395	+1 33.5	**17.3**	15 49 57.28	+69.40	−19 53 1.3	....
18	Sun II, S.........	9	52 42.97	+ 0.02	**−26.92**	59 12 10.35	44.572	+1 35.5	**17.3**	15 52 16.07	−69.39	−20 25 28.9	....
19	ι Piscium	11	35 19.45	− 0.16	−26.76	33 46 12.45	41.996	+ 38.3	18.5	23 34	.....	.. ..	....
20	ω Piscium	11	54 41.76	− 0.17	−26.79	32 32 11.88	43.561	+ 36.6	18.2	23 54	.....	.. ..	....
21	33 Piscium	11	0 44.17	− 0.10	−26.83	45 6 11.48	44.562	+ 57.5	17.8	0 0	.....	.. ..	....
22	α Andromedæ	11	3 44.63	− 0.30	−26.77	10 18 9.62	45.520	+ 10.5	17.0	0 3	.....	.. ..	....
	November 22, K.												
23	6 B. Ursæ Minoris s. p.	4	14 10.50	+ 8.43	[−28.13]	307 8	......	....	....	12 13	.....	.. ..	....
24	δ Piscium	11	44 1.11	− 0.18	[−26.79]	31 48 11.45	44.111	+ 35.5	[17.9]	0 43	.....	.. ..	....
25	ε Piscium	11	58 16.71	− 0.18	[−26.78]	31 30 11.12	42.104	+ 35.1	[17.4]	0 57	.....	.. ..	....
26	α Ursæ Minoris....	5	24 40.54	−12.69	[−24.34]	310 6	......	....	....	1 24	.....	.. ..	....
	November 27, S.												
27	θ Aquilæ..........	11	6 37.97	+ 0.13	−26.46	39 58 11.80	42.040	+ 48.3	11.9	20 6	.....	.. ..	....
28	ε Delphini	11	28 55.28	+ 0.06	−26.42	27 52 12.18	46.240	+ 30.6	11.8	20 28	.....	.. ..	....
29	Moon I, S	11	50 44.95	+ 0.19	**−26.47**	52 18 8.42	40.426	+1 14.8	**11.8**	20 50 18.67	+67.17	−13 29 51.1	....
30	β Aquarii..........	11	26 47.42	+ 0.15	−26.47	44 50 12.00	46.409	+ 57.6	11.8	21 26	.....	.. ..	....
31	ξ Aquarii..........	11	32 55.59	+ 0.16	−26.55	47 8 11.70	44.602	+1 2.4	11.6	21 32	.....	.. ..	....
	November 27, K.												
32	6 B. Ursæ Minoris s. p.	7	14 13.20	+ 9.32	[−28.92]	307 8	......	....	....	12 13	.....	.. ..	....
33	δ Piscium	11	44 0.60	− 0.01	[−26.49]	31 48 11.25	43.868	+ 36.3	[13.7]	0 43	.....	.. ..	....
34	ε Piscium	11	58 16.20	− 0.01	[−26.47]	31 30 11.98	41.835	+ 35.9	[13.7]	0 57	.....	.. ..	....
35	α Ursæ Minoris....	4	24 37.48	−13.55	[−23.16]	310 6	......	....	....	1 24	.....	.. ..	....
	November 29, Br.												
36	σ Aquarii..........	11	25 52.03	+ 0.06	−27.03	50 2 11.95	41.756	+1 9.7	12.1	22 25	.....	.. ..	....
37	η Aquarii..........	11	30 43.77	+ 0.01	−27.04	39 28 12.95	44.481	+ 48.2	12.1	22 30	.....	.. ..	....
38	Moon I, S	11	39 0.52	+ 0.03	**−27.04**	42 34 12.12	40.698	+ 53.8	**12.1**	22 38 33.51	+66.86	− 3 45 38.7	....
39	λ Aquarii..........	11	47 54.66	+ 0.05	−27.06	46 56 12.12	46.176	+1 2.6	12.1	22 47	.....	.. ..	....
40	α Pegasi...........	11	0 17.62	− 0.05	−27.03	24 10 11.92	45.359	+ 26.3	12.2	22 59	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
12 9 9	29.595	37.0	35.2
9 48	29.60	36.5	34.9
10 33	29.60	36.5	35.0
21 12 59	29.91	53.2	51.0
13 35	29.93	54.9	52.2
14 15	29.94	57.1	54.7
22 15 52	29.88	61.0	60.1
23 28	29.765	56.9	55.0
0 8	29.76	56.5	54.8
0 41	29.75	56.1	55.0
1 21	29.74	56.5	56.0
27 20 8	29.62	50.0	49.6
20 57	29.645	48.9	48.8
21 41	29.66	47.8	47.6
0 39	29.72	44.5	44.3
1 20	29.73	44.2	44.0
29 22 22	29.79	47.0	45.8
22 53	29.78	46.2	45.0
23 5	29.78	46.2	44.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 27.	Z. D. thread A used.
14, 17, 18, 29, 38.	Bisections at VI, VII.
15, 16, 22.	Bisections at II, VI, VII.
17.	Bisections at I, II, III.
18.	Bisections at V, VI, VII.
29, 38.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 2.6	....	0.0	+ 2.6
14	+ 5.4	+ 7.3	...	+ 12.7
17	+ 7.6	−16 13.8	...	−16 6.2
18	+ 7.7	+16 13.7	...	+16 21.4
29	+45 41.0	+15 47.9	...	+61 28.9
38	+39 46.0	+16 5.5	...	+55 51.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	November 29, Hh.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Virginis	11	20 25.41	+ 0.18	−27.21	49 28 12.58	46.831	+1 10.3	13.9	13 19	.....	.. ..	....
2	η Bootis	11	50 24.82	0.00	−27.14	19 58 10.92	42.458	+ 21.8	12.1	13 49	.....	.. ..	....
3	Venus II, S	11	2 46.23	+ 0.19	**−27.20**	49 8 11.82	43.289	+1 9.2	**12.3**	14 2 19.22	− 0.48	−10 20 43.3	....
4	α Bootis	6	11 35.32	0.00	−27.26	19 8 12.12	48.008	+ 20.8	11.6	14 11	.....	.. ..	....
5	ρ Bootis	11	28 0.10	− 0.07	−27.16	8 2 11.18	47.218	+ 8.5	13.0	14 27	.....	.. ..	....
6	ε Bootis	11	41 6.17	− 0.05	−27.24	11 22 10.75	43.402	+ 12.0	12.4	14 40	.....	.. ..	....
	November 30, Hh.												
7	Sun I, S.	11	24 29.52	+ 0.29	**−27.27**	60 42 9.60	46.155	+1 45.6	**12.3**	16 24 2.54	+70.08	−21 56 10.6	....
8	Sun II, N	11	26 49.67	+ 0.29	**−27.27**	60 10 9.40	44.638	+1 43.3	**12.3**	16 26 22.69	−70.07	−21 23 42.3	....
9	α Ophiuchi	6	30 46.74	+ 0.08	−27.30	26 12 13.75	46.802	+ 29.2	13.3	17 30	.....	.. ..	....
10	α Lyræ	10	34 1.52	− 0.09	−27.32	0 10 10.32	43.202	+ 0.2	11.8	18 33	.....	.. ..	....
11	γ Aquilæ	11	42 0.06	+ 0.11	−27.34	28 28 13.32	45.215	+ 32.1	12.4	19 41	.....	.. ..	....
12	α Aquilæ	11	46 24.09	+ 0.12	−27.36	30 14 13.05	44.762	+ 34.5	10.9	19 45	.....	.. ..	....
13	β Aquilæ	11	50 53.97	+ 0.14	−27.39	32 40 12.22	47.339	+ 37.9	12.0	19 50	....	.. ..	....
14	λ Aquarii	10	47 54.86	+ 0.20	−27.42	46 56 12.30	46.035	+1 3.8	10.7	22 47	....	.. ..	....
15	ι Aquarii	11	9 39.85	+ 0.19	−27.55	45 26 11.90	41.769	+1 0.5	10.8	23 9	.....	.. ..	...
16	φ Piscium	11	23 25.17	+ 0.10	−27.63	33 0 12.02	45.556	+ 38.8	10.7	23 22	.....	.. ..	....
17	Moon I, S.	11	33 28.33	+ 0.13	**−27.48**	37 10 12.92	42.431	+ 45.4	**10.6**	23 33 0.98	+67.44	+ 1 37 54.1	....
18	ω Piscium	10	54 41.93	+ 0.09	−27.30	32 32 12.08	43.071	+ 38.1	10.1	23 54	.....	.. ..	....
	November 30, K.												
19	6 B. Ursæ Minoris s. p.	5	14 13.98	+11.44	[−30.02]	307 8	......	....	....	12 13	.....	.. ..	....
20	δ Piscium	11	44 1.43	+ 0.11	[−27.46]	31 48 11.75	43.688	+ 36.9	[11.2]	0 43	.....	.. ..	....
21	ε Piscium	11	58 17.06	+ 0.11	[−27.47]	31 30 12.48	41.649	+ 36.5	[11.2]	0 57	.....	.. ..	....
22	α Ursæ Minoris	4	24 38.20	−16.39	[−23.11]	310 6	......	....	....	1 23	.....	.. ..	....
	November 30, S.												
23	η Bootis	11	50 25.14	+ 0.11	−27.54	19 58 12.10	42.306	+ 21.9	10.2	13 49	.....	.. ..	....
24	Venus I, S.	6	7 25.37	+ 0.33	**−27.59**	49 34 11.62	40.352	+1 10.5	**10.1**	14 6 58.11	+ 0.33	−10 45 50.3	....
25	Venus II, N	5	7 26.18	+ 0.33	**−27.59**	49 34 11.62	39.635	+1 10.5	**10.1**	14 6 58.92	− 0.48	−10 45 36.4	....
26	α Bootis	11	11 35.56	+ 0.10	−27.58	19 8 11.18	37.725	+ 20.9	9.8	14 11	.....	.. ..	....
27	ε Bootis	11	41 6.40	+ 0.04	−27.54	11 22 10.08	43.344	+ 12.1	10.5	14 40	.....	.. ..	....
28	Mercury II, C.	11	15 7.72	+ 0.36	**−27.62**	54 6 11.18	43.644	+1 22.3	**10.1**	15 14 40.46	− 0.27	−15 19 4.7	....
29	α Coronæ Borealis	11	30 56.28	+ 0.04	−27.59	11 48 10.58	45.055	+ 12.5	9.9	15 30	.....	.. ..	....
30	α Serpentis	11	39 50.32	+ 0.19	−27.79	32 6 11.48	45.532	+ 37.2	10.2	15 39	.....	.. ..	....
	December 1, S.												
31	Sun I, N.	11	28 48.49	+ 0.40	**−27.65**	60 22 11.98	36.767	+1 43.3	**10.1**	16 28 21.24	+70.23	−21 33 13.2	....
32	Sun II, S	11	31 8.95	+ 0.40	**−27.65**	60 54 11.45	37.978	+1 45.6	**10.1**	16 30 41.70	−70.23	−22 5 40.9	....
33	α Ophiuchi	11	30 47.14	+ 0.14	−27.76	26 12 12.80	46.744	+ 28.9	9.7	17 30	.....	.. ..	....
34	α Lyræ	11	34 1.77	− 0.07	−27.59	0 10 10.28	43.124	+ 0.2	10.0	18 33	.....	.. ..	....
35	γ Aquilæ	11	42 0.43	+ 0.14	−27.75	28 28 15.08	45.061	+ 31.7	10.7	19 41	.....	.. ..	....
36	α Aquilæ	11	46 24.45	+ 0.16	−27.77	30 14 12.55	44.785	+ 34.1	10.3	19 45	.....	.. ..	....
	December 2, Br.												
37	ε Piscium	11	58 17.91	+ 0.13	−28.36	31 30 12.12	41.672	+ 36.5	11.1	0 57	.....	.. ..	....
38	f Piscium	11	13 11.19	+ 0.16	−28.38	35 44 12.75	47.144	+ 42.9	11.0	1 12	.....	.. ..	....
39	Moon I, S	11	27 17.75	+ 0.10	**−28.37**	26 54 12.52	39.461	+ 30.3	**10.8**	1 26 49.48	+69.99	+11 55 6.7	....
40	ν Piscium	11	36 46.52	+ 0.15	−28.37	33 52 12.65	42.245	+ 40.0	10.8	1 36	.....	.. ..	....
41	β Arietis	11	49 40.30	+ 0.04	−28.38	18 32 11.52	42.388	+ 20.0	10.4	1 49	.....	.. ..	....
	December 4, Br.												
42	α Ceti	11	57 37.12	+ 0.18	−29.23	35 8 13.45	45.798	+ 40.7	10.3	2 57	.....	.. ..	....
43	ζ Arietis	11	9 43.79	+ 0.09	−29.21	18 10 11.02	45.162	+ 19.0	10.4	3 9	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
29 13 24	29.94	36.9	35.1
14 6	29.95	39.4	37.7
14 49	29.95	40.8	39.1
30 16 25	29.92	42.5	41.6
17 36	29.92	43.5	42.1
18 38	29.90	44.7	43.2
19 53	29.90	44.0	42.4
22 51	29.92	39.4	38.8
23 42	29.94	39.0	38.2
0 41	29.91	38.1	38.9
1 20	29.90	38.4	38.5
13 47	29.90	36.1	34.0
14 47	29.91	39.1	37.0
15 45	29.90	42.8	41.4
1 16 30	29.89	44.6	44.0
17 34	29.87	46.6	46.0
18 39	29.86	48.8	47.8
19 50	29.85	47.8	47.0
2 0 52	30.035	41.9	41.1
1 17	30.035	41.3	40.8
1 54	30.04	41.0	40.3
4 3 1	29.30	43.0	42.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 7, 8, 17, 24, 25, 26, 28, 31, 32, 39.	Z. D. thread A used.
4, 7.	Bisections at I, II.
8, 30.	Bisections at VI, VII.
17, 39.	Bisections at II, III, IV, V, VI.
24.	Bisections at II, VI.
25.	Bisections at I, VII.
31.	Bisections at I, II, III.
32.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 5.5	+ 7.0	...	+ 12 5
7	+ 7.8	+16 14.1	...	+16 21.9
8	+ 7.8	−16 14.2	...	−16 6.4
17	+35 48.1	+16 13.4	...	+52 1.5
24	+ 5.5	+ 7.1	...	+ 12.6
25	+ 5.5	− 7.1	+ 0.3	− 1.3
28	+ 8.7	....	+ 0.9	+ 9.6
31	+ 7.8	−16 13.8	...	−16 6.0
32	+ 7.8	+16 13.9	...	+16 21.7
39	+27 3.6	+16 23.8	...	+43 27.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	*f* Tauri	11	25 55.50	+ 0.13	−29.22	26 14 12.08	47.225	+ 28.6	10.2	3 25	.....	.. ..	....
2	Moon I, S	11	30 44.38	+ 0.10	**−29.21**	19 44 11.02	40.355	+ 20.8	**10.1**	3 30 15.27	+72.58	+19 4 59.9	....
3	η Tauri	11	42 7.26	+ 0.07	−29.21	15 4 11.38	41.316	+ 15.6	9.4	3 41	.....	.. ..	....
4	ζ Persei	11	48 25.99	+ 0.03	−29.18	7 16 10.18	43.575	+ 7.4	10.0	3 47	.....	.. ..	....
	December 4, Hh.												
5	η Bootis	11	50 27.04	+ 0.12	−29.36	19 58 12.42	42.324	+ 21.2	9.2	13 49	.....	.. ..	....
6	α Bootis	11	11 37.37	+ 0.11	−29.30	19 8 11.88	47.914	+ 20.3	9.6	14 11	.....	.. ..	....
7	Venus II, S	11	26 16.75	+ 0.30	**−29.39**	51 12 12.80	41.025	+1 12.6	**9.4**	14 25 47.66	− 0.47	−12 24 7.1	....
8	ε Bootis	11	41 8.32	+ 0.06	−29.39	11 22 12.25	43.242	+ 11.8	9.2	14 40	.....	.. ..	....
9	α^2 Libræ	11	45 52.78	+ 0.32	−29.49	54 28 12.15	43.322	+1 21.6	9.7	14 45	.....	.. ..	....
	December 5, Hh.												
10	Sun I, S	11	46 11.25	+ 0.36	**−29.41**	61 26 11.85	44.092	+1 46.8	**9.8**	16 45 42.20	+70.60	−22 39 37.0	....
11	Sun II, N	10	48 32.45	+ 0.35	**−29.41**	60 54 11.60	42.428	+1 44.4	**9.8**	16 48 3.39	−70.59	−22 7 5.8	....
12	α Lyræ	9	34 3.44	− 0.02	−29.33	0 10 10.02	43.224	+ 0.2	10.6	18 33	.....	.. ..	....
13	γ Lyræ	10	55 42.97	+ 0.02	−29.45	6 18 11.02	43.631	+ 6.5	10.2	18 55	.....	.. ..	....
14	ζ Aquilæ	11	1 20.32	+ 0.13	−29.45	25 8 12.62	43.356	+ 27.4	9.9	19 0	.....	.. ..	....
15	γ Cygni	11	19 9.51	− 0.03	−29.48	358 54 10.20	46.396	− 1.0	10.1	20 18	.....	.. ..	....
	December 5, K.												
16	6 B. Ursæ Minoris s. p.	5	14 20.76	+ 8.74	[−30.90]	307 8	......	....	....	12 13	.....	.. ..	....
17	δ Piscium	11	44 3.51	+ 0.15	[−29.63]	31 48 12.00	43.676	+ 36.7	[10.8]	0 43	.....	.. ..	....
18	ε Piscium	11	58 19.16	+ 0.15	[−29.65]	31 30 12.72	41.585	+ 36.3	[9.7]	0 57	.....	.. ..	....
19	α Ursæ Minoris	4	24 35.08	−12.42	[−26.81]	310 6	......	....	....	1 23	.....	.. ..	....
	December 5, Hh.												
20	A^1 Tauri	11	59 22.33	+ 0.05	−29.67	17 2 23.85	44.549	+ 18.3	10.2	3 58	.....	.. ..	....
21	γ Tauri	11	14 41.19	+ 0.10	−29.63	23 28 12.62	42.786	+ 25.9	9.2	4 14	.....	.. ..	....
22	ε Tauri	11	23 21.94	+ 0.07	−29.70	19 54 12.62	41.992	+ 21.6	9.6	4 22	.....	.. ..	....
23	Moon I, S	11	34 52.37	+ 0.06	**−29.69**	18 8 10.15	45.167	+ 19.6	**9.7**	4 34 22.74	+72.82	+20 39 29.3	...
24	11 Orionis	11	59 26.51	+ 0.10	−29.75	23 34 12.85	47.108	+ 26.0	9.8	4 58	.....	.. ..	....
25	β Tauri	11	20 34.08	+ 0.01	−29.71	10 20 11.62	43.479	+ 10.9	9.8	5 20	.....	.. ..	....
26	Neptune C, C	11	52 54.30	+ 0.05	**−29.78**	16 40 10.78	43.796	+ 17.8	**9.7**	5 52 24.57	.....	+22 11 11.3	....
	December 6, K.												
27	6 B. Ursæ Minoris s. p.	5	14 21.96	+ 6.81	[−29.57]	307 8	......	....	....	12 13	.....	.. ..	....
28	δ Piscium	11	44 3.97	+ 0.20	[−30.15]	31 48 13.28	43.491	+ 37.3	[9.0]	0 43	.....	.. ..	....
29	ε Piscium	11	58 19.60	+ 0.20	[−30.15]	31 30 13.05	41.499	+ 36.8	[8.6]	0 57	.....	.. ..	....
30	α Ursæ Minoris	5	24 36.20	−10.55	[−30.38]	310 6	......	....	....	1 23	.....	.. ..	....
	December 6, Hh.												
31	η Bootis	11	50 28.05	+ 0.15	−30.34	19 58 12.35	42.352	+ 21.9	9.7	13 49	.....	.. ..	....
32	α Bootis	11	11 38.44	+ 0.15	−30.37	19 8 12.02	47.926	+ 20.9	10.0	14 11	.....	.. ..	....
33	Venus II, S	11	35 48.39	+ 0.33	**−30.34**	51 58 13.15	45.760	+1 16.6	**9.7**	14 35 18.38	− 0.46	−13 11 41.9	....
34	ε Bootis	11	41 9.25	+ 0.10	−30.32	11 22 11.68	43.325	+ 12.1	9.9	14 40	.....	.. ..	....
35	β Bootis	11	58 42.09	+ 0.02	−30.31	358 4 10.32	46.118	− 1.9	9.2	14 58	.....	.. ..	....
	December 8, Br.												
36	χ Aurigæ	11	26 50.92	+ 0.19	−31.57	6 44 11.12	44.676	+ 7.1	10.0	5 26	.....	.. ..	....
37	ε Orionis	11	31 44.65	+ 0.35	−31.57	40 6 11.78	45.554	+ 50.3	9.1	5 31	.....	.. ..	....
38	Neptune C, C	11	52 34.55	+ 0.24	**−31.62**	16 40 12.10	43.824	+ 17.9	**8.8**	5 52 3.17	.....	+22 11 8.5	....
39	η Geminorum	11	9 27.85	+ 0.24	−31.70	16 18 12.02	47.222	+ 17.5	8.0	6 8	.....	.. ..	....
40	μ Geminorum	11	17 31.93	+ 0.24	−31.65	16 18 12.45	41.790	+ 17.5	8.1	6 17	.....	.. ..	....
41	Moon II, S	11	40 24.85	+ 0.27	**−31.66**	22 6 12.05	45.324	+ 24.4	**9.8**	7 39 53.46	−68.06	+16 41 19.7	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
4 3 53	29.32	43.5	43.2
13 54	29.55	43.5	42.6
14 18	29.58	44.4	43.0
14 50	29.60	44.9	43.3
5 16 47	29.59	46.9	45.2
18 38	29.62	47.9	45.6
19 30	29.65	45.9	44.4
20 18	29.66	45.5	44.2
0 38	29.76	40.7	39.7
1 20	29.77	39.6	39.1
4 3	29.82	37.5	36.9
4 48	29.82	38.0	38.7
5 39	29.82	38.6	39.0
6 0 38	30.00	36.8	36.4
1 22	30.00	36.1	36.0
13 58	29.93	36.0	35.3
14 18	29.93	36.9	36.3
15 4	29.93	37.9	37.2
8 5 21	29.68	35.5	34.0
5 57	29.68	35.4	34.0
6 23	29.66	35.8	34.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 7, 10, 11, 23, 33, 41.	Z. D. thread A used.
2, 23, 41.	Bisections at II, III, IV, V, VI.
10.	Bisections at I, II.
11.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+20 7.5	+16 21.6	...	+36 29.1
7	+ 5.5	+ 6.8	...	+ 12.3
10	+ 7.9	+16 15.5	...	+16 23.4
11	+ 7.8	−16 15.6	...	−16 7.8
23	+18 26.2	+16 14.7	...	+34 40.9
26	+ 0.1	....	...	+ 0.1
33	+ 5.5	+ 6.8	...	+ 12.3
38	+ 0.1	....	...	+ 0.1
41	+21 27.7	+15 38.0	...	+37 5.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	φ Geminorum	11	47 59.77	+ 0.21	−31.63	11 50 11.55	44.121	+ 12.6	9.7	7 47	.....	.. ..	....
2	ω¹ Cancri	11	55 29.85	+ 0.22	−31.65	13 12 11.72	42.431	+ 14.1	9.2	7 54	.....	.. ..	....
3	ζ¹ Cancri	11	7 5.25	+ 0.26	−31.62	20 54 11.80	45.218	+ 22.9	10.2	8 6	.....	.. ..	....
4	β Cancri	11	11 41.91	+ 0.30	−31.70	29 22 12.32	42.474	+ 33.6	10.1	8 11	.....	.. ..	....
	December 9, Br.												
5	β Cancri	11	11 42.46	+ 0.28	−32.20	29 22 12.30	42.424	+ 34.6	10.0	8 11	.....	.. ..	....
6	η Cancri	11	27 32.81	+ 0.22	−32.22	18 4 11.52	45.814	+ 20.1	9.1	8 27	.....	.. ..	....
7	Moon II, S	11	34 43.00	+ 0.27	−**32.24**	25 36 11.82	42.627	+ 29.6	**9.9**	8 34 11.03	−65.79	+13 12 6.5	....
8	ε Hydræ	11	42 5.59	+ 0.29	−32.25	32 4 12.20	43.818	+ 38.6	9.9	8 41	.....	.. ..	....
9	κ Cancri	11	2 56.65	+ 0.27	−32.28	27 46 12.55	47.128	+ 32.5	10.5	9 2	.....	.. ..	....
	December 9, Hh.												
10	η Bootis	11	50 29.90	+ 0.21	−32.17	19 58 12.32	42.312	+ 22.5	8.8	13 49	.....	.. ..	....
11	α Bootis	11	11 40.34	+ 0.21	−32.25	19 8 12.75	47.839	+ 21.5	8.9	14 11	.....	.. ..	....
12	ρ Bootis	11	28 5.14	+ 0.14	−32.18	8 2 11.62	47.148	+ 8.8	9.4	14 27	.....	.. ..	....
13	ε Bootis	11	41 11.19	+ 0.16	−32.25	11 22 12.92	43.261	+ 12.4	9.3	14 40	.....	.. ..	....
14	Mercury C, C	11	43 53.42	+ 0.43	−**32.24**	56 28 12.38	42.355	+1 32.2	**9.0**	15 43 21.61	− 0.06	−17 37 37.4	....
	December 10, Hh.												
15	Sun I, S	11	8 7.72	+ 0.47	−**32.26**	61 58 11.95	45.232	+1 54.5	**9.0**	17 7 35.93	+70.86	−23 12 7.8	....
16	Sun II, N	11	10 29.44	+ 0.47	−**32.26**	61 26 12.75	43.350	+1 51.9	**9.0**	17 9 57.65	−70.86	−22 39 32.7	....
17	α Lyræ	11	34 6.22	+ 0.08	−32.24	0 10 10.52	43.179	+ 0.2	8.8	18 33	.....	.. ..	....
18	β Lyræ	11	46 56.61	+ 0.12	−32.19	5 36 10.85	44.829	+ 6.0	9.3	18 46	.....	.. ..	....
19	γ Lyræ	8	55 45.72	+ 0.13	−32.34	6 18 11.48	43.594	+ 6.7	8.9	18 55	.....	.. ..	....
20	ζ Aquilæ	11	1 23.14	+ 0.24	−32.39	25 8 13.10	43.249	+ 28.5	8.5	19 0	.....	.. ..	....
21	β Cancri	11	11 42.91	+ 0.26	−32.60	29 22 13.32	42.326	+ 34.5	8.8	8 11	.....	.. ..	....
22	Moon II, S	11	25 36.63	+ 0.27	−**32.71**	29 40 13.18	43.332	+ 34.9	**9.4**	9 25 4.19	−63.83	+ 9 7 45.9	....
23	ο Leonis	11	36 25.82	+ 0.26	−32.68	28 30 13.60	45.171	+ 33.2	8.9	9 35	.....	.. ..	....
24	α Leonis	9	3 39.58	+ 0.25	−32.63	26 24 12.85	43.892	+ 30.4	9.9	10 3	.....	.. ..	....
25	γ¹ Leonis	11	15 4.76	+ 0.20	−32.95	18 30 11.88	46.226	+ 20.5	9.8	10 14	.....	.. ..	....
26	Mars I, C	6	38 27.63	+ 0.25	−**32.75**	27 26 13.20	42.185	+ 31.7	**9.4**	10 37 55.13	+ 0.23	+11 25 25.7	....
27	Mars II	5	38 28.14	+ 0.25	−**32.75**	... .	......	....	....	10 37 55.64	− 0.28	.. ..	....
	December 11, K.												
28	6 B. Ursæ Minoris S. P.	5	14 26.54	+10.10	[−34.14]	307 8	......	....	....	12 14	.....	.. ..	....
29	δ Piscium	11	44 6.79	+ 0.29	[−33.10]	31 48 13.98	43.458	+ 37.6	[9.1]	0 43	.....	.. ..	....
30	ε Piscium	5	58 22.43	+ 0.28	[−33.11]	31 30 13.70	41.456	+ 37.2	[8.8]	0 57	.....	.. ..	....
31	α Ursæ Minoris	5	24 39.24	−14.03	[−33.73]	310 6	......	....	....	1 23	.....	.. ..	....
	December 11, Br.												
32	ε Leonis	7	40 48.59	+ 0.29	−33.53	14 38 11.98	42.479	+ 16.2	8.2	9 40	.....	.. ..	....
33	μ Leonis	11	47 42.66	+ 0.27	−33.57	12 22 11.32	47.133	+ 13.5	9.6	9 47	.....	.. ..	....
34	π Leonis	11	55 33.25	+ 0.38	−33.43	30 20 12.82	43.252	+ 35.9	9.5	9 55	.....	.. ..	....
35	α Leonis	11	3 40.28	+ 0.36	−33.41	26 24 13.15	43.858	+ 30.5	9.4	10 3	.....	.. ..	....
36	Moon II, S	11	13 50.61	+ 0.42	−**33.48**	34 4 12.70	43.901	+ 41.6	**8.9**	10 13 17.55	−62.37	+ 4 43 28.2	....
37	Mars I	6	39 42.32	+ 0.37	−**33.47**	27 30	......	....	....	10 39 9.22	+ 0.31	.. ..	....
38	Mars II	5	39 43.00	+ 0.37	−**33.47**	... .	......	....	....	10 39 9.90	− 0.37	.. ..	....
39	46 Leonis Minoris	11	48 20.73	+ 0.22	−33.48	4 6 10.98	46.108	+ 4.5	8.8	10 47	.....	.. ..	....
40	p³ Leonis	11	2 25.20	+ 0.42	−33.48	36 20 13.50	47.466	+ 45.3	8.6	11 1	.....	.. ..	....
41	δ Leonis	11	9 24.55	+ 0.31	−33.44	17 46 11.90	47.978	+ 19.8	8.1	11 8	.....	.. ..	....
42	τ Leonis	11	23 24.55	+ 0.42	−33.46	35 26 12.60	46.025	+ 43.8	9.0	11 22	.....	.. ..	....
	December 12, Br.												
43	ρ Bootis	11	28 7.32	+ 0.15	−34.29	8 2 11.60	47.100	+ 8.5	7.3	14 27	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
8 8 17	29.585	33.9	32.1
9 8 4	30.03	27.0	26.0
8 47	30.03	26.0	25.0
9 7	30.03	25.8	24.9
13 54	30.11	26.6	24.4
14 44	30.12	28.9	26.8
15 38	30.12	31.4	28.7
10 17 9	30.07	32.5	30.0
18 26	30.06	34.8	31.8
19 6	30.05	35.8	32.9
8 18	29.91	25.7	24.9
9 16	29.90	26.4	26.1
9 42	29.89	26.9	26.0
10 34	29.89	27.8	26.3
11 0 38	29.87	30.0	29.9
1 20	29.88	29.8	29.4
9 25	29.935	26.0	25.5
10 15	29.94	25.6	25.5
10 54	29.95	25.2	24.0
11 30	29.965	24.9	24.8
12 14 24	29.69	37.0	36.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7, 15, 16, 22, 36.	Z. D. thread A used.
7, 22, 36.	Bisections at II, III, IV, V, VI.
15.	Bisections at I, II, III.
16.	Bisections at V, VI, VII.
33.	Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+24 17.3	+15 24.4	...	+39 41.7
14	+ 7.1	....	+ 0.3	+ 7.4
15	+ 7.9	+16 17.5	...	+16 25.4
16	+ 7.9	−16 17.6	...	−16 9.7
22	+27 27.9	+15 12.1	...	+42 40.0
26	+ 3.6	....	0.0	+ 3.6
36	+30 44.7	+15 1.7	...	+45 46.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Bootis	11	41 13.30	+ 0.17	−34. 30	11 22 11.45	43.329	+ 12.0	7. 8	14 40	.....	.. ..	....
2	Venus I, N	6	4 50.78	+ 0.44	**−34.35**	54 14 11.50	43.532	+1 22.0	**8.1**	15 4 16.87	+ 0.36	−15 27 4.5	....
3	Venus II, S	5	4 51.64	+ 0.44	**−34.35**	54 14 11.50	44.405	+1 22.0	**8.1**	15 4 17.73	− 0.50	−15 27 21.3	....
4	β Libræ	8	12 14.43	+ 0.40	−34.44	47 52 12.08	41.844	+1 5.0	8. 8	15 11	.....	.. ..	....
5	α Coronæ Borealis	11	31 3.10	+ 0.17	−34. 32	11 48 12.35	45.058	+ 12.3	8. 0	15 30	.....	.. ..	....
6	Mercury C, C	11	58 42.81	+ 0.45	**−34.37**	57 34 12.42	46.518	+1 31.6	**8.9**	15 58 8.89	− 0.04	−18 44 56.7	....
7	δ Ophiuchi	11	9 42.97	+ 0.34	−34. 42	42 16 12.30	46.556	+ 52.9	9. 2	16 9	.....	.. ..	....
	December 13, Br.												
8	Sun I, S	11	21 23.12	+ 0.43	**−34.41**	62 12 13.30	45.723	+1 49.0	**10.3**	17 20 49.14	+71.11	−23 26 11.7	....
9	Sun II, N	11	23 45.34	+ 0.43	**−34.41**	61 40 13.45	43.907	+1 46.5	**10.3**	17 23 11.36	−71.11	−22 53 37.4	....
10	β Lyræ	11	46 58.93	+ 0.02	−34. 42	5 36 10.80	44.990	+ 5.6	11. 1	18 46	.....	.. ..	....
11	γ Lyræ	11	55 47.89	+ 0.02	−34. 40	6 18 11.15	43.784	+ 6.3	11. 1	18 55	.....	.. ..	....
12	ζ Aquilæ	11	1 25.30	+ 0.13	−34. 43	25 8 13.68	43.465	+ 26.8	11. 0	19 0	.....	.. ..	....
13	δ Aquilæ	11	21 4.22	+ 0.18	−34. 44	35 56 12.95	42.708	+ 41.3	13. 1	19 20	.....	.. ..	....
14	γ Aquilæ	11	42 7.16	+ 0.14	−34.55	28 28 13.48	45.418	+ 30.9	13. 5	19 41	.....	.. ..	....
	December 13, K.												
15	6 B. Ursæ Minoris S. P.	5	14 29.96	+10.25	[−36. 31]	307 8	......	....	....	12 14	.....	.. ..	....
16	δ Piscium	11	44 8.46	+ 0.17	[−34. 67]	31 48 11.92	43.738	+ 35.8	[10. 5]	0 43	.....	.. ..	....
17	ε Piscium	11	58 24.02	+ 0.17	[−34. 61]	31 30 12.20	41.701	+ 35.4	[10. 1]	0 57	.....	.. ..	....
18	α Ursæ Minoris	4	24 36.55	−13.70	[−33. 13]	310 6	......	....	....	1 23	.....	.. ..	....
	December 13, Br.												
19	α Leonis	11	3 42.10	+ 0.20	−35. 00	26 24 12.42	43.936	+ 29.9	9. 3	10 3	.....	.. ..	....
20	γ^1 Leonis	11	15 7.01	+ 0.17	−35. 07	18 30 10.85	46.294	+ 20.2	9. 3	10 14	.....	.. ..	....
21	β Leonis Minoris	10	22 45.66	+ 0.10	−34. 94	1 38 10.45	46.508	+ 1.8	9. 9	10 22	.....	.. ..	....
22	ρ Leonis	11	28 11.78	+ 0.21	−34. 92	29 2 12.60	44.020	+ 33.5	9. 6	10 27	.....	.. ..	....
23	Mars I, C	6	42 7.55	+ 0.20	**−34.98**	27 42 11.90	42.279	+ 31.7	**9.5**	10 41 32.77	+ 0.35	+11 9 25.3	....
24	Mars II	5	42 8.32	+ 0.20	**−34.98**	... .	......	....	....	10 41 33.54	− 0.42	.. ..	....
25	Moon II, S	11	45 59.51	+ 0.27	**−34.99**	43 8 12.25	40.030	+ 56.9	**9.5**	11 45 24.79	−61.28	− 4 19 31.8	....
26	π Virginis	11	56 23.33	+ 0.22	−34. 99	31 40 12.00	46.821	+ 37.5	9. 6	11 55	.....	.. ..	....
27	η Virginis	11	15 25.74	+ 0.25	−35. 02	38 58 12.78	42.876	+ 49.2	10. 6	12 14	.....	.. ..	....
28	δ^2 Corvi	11	25 19.64	+ 0.32	−34. 97	54 48 11.70	43.268	+1 26.2	8. 8	12 24	.....	.. ..	....
29	γ Virginis (*mean*)	11	37 13.61	+ 0.25	[−34. 81]	39 42 12.90	43.118	+ 50.7	9. 1	12 36	.....	.. ..	....
	December 13, Hh.												
30	α Bootis	11	11 43.18	+ 0.14	−34. 92	19 8 11.15	47.981	+ 21.3	8. 7	14 11	.....	.. ..	....
31	ρ Bootis	11	28 7.97	+ 0.08	−34. 84	8 2 10.75	47.214	+ 8.7	8. 5	14 27	.....	.. ..	....
32	ε Bootis	11	41 14.00	+ 0.10	−34. 90	11 22 11.85	43.379	+ 12.4	9. 3	14 40	.....	.. ..	....
33	Venus II, S	11	9 46.15	+ 0.32	**−34.91**	54 38 11.42	35.978	+1 26.1	**9.2**	15 9 11.56	− 0.46	−15 48 42.6	....
	December 14, Hh.												
34	Sun I, S	11	25 49.21	+ 0.37	**−34.97**	62 16 11.80	44.787	+1 56.0	**9.2**	17 25 14.61	+71.03	−23 30 0.3	....
35	Sun II, N	9	28 11.27	+ 0.37	**−34.97**	61 44 10.70	43.200	+1 53.4	**9.2**	17 27 36.67	−71.03	−22 57 28.8	....
36	α Lyræ	11	34 8.99	+ 0.04	−34. 98	0 10 10.10	43.326	+ 0.2	10. 1	18 33	.....	.. ..	....
37	β Lyræ	11	46 59.48	+ 0.07	−35.02	5 36 10.00	44.969	+ 6.0	10. 0	18 46	.....	.. ..	....
38	γ Lyræ	9	55 48.32	+ 0.08	−34. 90	6 18 11.05	43.652	+ 6.8	8. 7	18 55	.....	.. ..	....
39	ζ Aquilæ	11	1 25.91	+ 0.19	−35. 10	25 8 12.88	43.330	+ 28.6	10. 1	19 0	.....	.. ..	....
40	β Cygni	11	27 17.95	+ 0.11	−35. 02	11 6 11.75	43.656	+ 12.0	8. 6	19 26	.....	.. ..	....
41	μ Hydræ	11	21 54.66	+ 0.50	−35. 76	55 10 12.50	43.204	+1 30.3	10. 0	10 21	.....	.. ..	....
42	Mars I, C	6	43 17.47	+ 0.33	**−35.69**	27 46 12.90	45.278	+ 33.2	**8.7**	10 42 42.11	+ 0.30	+11 4 24.5	....
43	Mars II	5	43 18.12	+ 0.33	**−35.69**	... .	......	....	....	10 42 42.76	− 0.35	.. ..	....
44	γ Corvi	11	11 18.71	+ 0.51	−35. 75	55 50 11.60	41.932	+1 32.8	8. 5	12 10	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
12 14 52	29.69	39.5	38.6
15 15	29 69	41.8	41.0
15 35	29.69	44.0	43.2
16 14	29.68	47.8	47.2
13 17 22	29.66	50.5	52.1
18 50	......	....	54.8
19 4	29.61	53.8	54.9
19 45	29.60	55.0	55.8
0 37	29.65	48.5	50.0
1 23	......	47.0	48.5
9 57	29.85	34.5	32.5
10 48	29.845	33.0	31.0
12 1	29.88	30.8	28.8
12 43	29.90	29.2	27.5
14 15	29.97	30.4	26.7
14 53	29.97	29.9	26.8
15 28	29.97	30.4	27.0
14 17 28	29.97	31.7	28.1
18 37	29.96	32.6	29.3
19 8	29.96	33.0	29.2
19 33	29.96	32.8	29.2
10 20	30.10	19.5	15.7
11 6	30.12	18.9	15.7
12 9	30.14	18.8	15.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 3, 8, 9, 25, 29, 33, 34, 35.	Z. D. thread A used.
2.	Bisections at I, VII.
3.	Bisections at II, VI.
8, 34.	Bisections at I, II, III.
9.	Bisections at V, VI, VII.
21, 28, 39.	Bisections at II, VI, VII.
25.	Bisections at II, III, IV, V, VI.
35.	Bisections at V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 5.5	− 8.5	+ 0.2	− 2.8
3	+ 5.5	+ 8.5	...	+ 14.0
6	+ 6.7	....	+ 0.2	+ 6.9
8	+ 7.9	+16 17.1	...	+16 25.0
9	+ 7.9	−16 17.2	...	−16 9.3
23	+ 3.7	....	0.0	+ 3.7
25	+37 0.7	+14 49.3	...	+51 50.0
33	+ 5.5	+ 6.6	...	+ 12.1
34	+ 8.0	+16 15.7	...	+16 23.7
35	+ 7.9	−16 15.7	...	−16 7.8
42	+ 3.7	....	0.0	+ 3.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Virginis	11	15 26.25	+ 0.40	−35.65	38 58 12.05	42.724	+ 51.1	8.7	12 14	.....	.. ..	....
2	δ² Corvi	10	25 20.30	+ 0.50	−35.77	54 48 12.12	43.062	+1 29.4	7.6	12 24	.....	.. ..	....
3	Moon II, S	11	31 46.85	+ 0.46	**−35.76**	47 28 11.30	41.067	+1 8.9	**8.7**	12 31 11.55	−61.64	− 8 40 3.5	....
4	γ Virginis (*mean*)	11	37 14.23	+ 0.40	[−35.55]	39 44 10.72	47.010	+ 52.6	8.5	12 36	.....	.. ..	....
	December 14, B.												
5	Venus I, C	5	14 41.20	+ 0.50	**−35.69**	55 0 11.25	42.572	+1 29.6	**9.3**	15 14 6.01	+ 0.39	−16 9 38.8	....
6	Venus II	6	14 42.13	+ 0.50	**−35.69**	... .	......	....	....	15 14 6.94	− 0.54	.. ..	....
7	α Coronæ Borealis	11	31 4.42	+ 0.23	−35.66	11 48 11.82	45.146	+ 13.2	9.5	15 30	.....	.. ..	....
8	α Serpentis	11	39 58.29	+ 0.35	−35.66	32 6 12.15	45.576	+ 39.4	9.3	15 39	.....	.. ..	....
9	δ Scorpii	11	55 3.58	+ 0.53	−35.81	61 10 12.55	43.453	+1 53.5	9.9	15 54	.....	.. ..	....
10	Mercury C, C	11	9 25.34	+ 0.51	**−35.69**	58 20 11.68	43.628	+1 41.3	**9.3**	16 8 50.16	− 0.04	−19 30 9.9	....
11	α Scorpii	10	23 54.78	+ 0.56	−35.64	65 2 12.32	43.402	+2 13.8	9.4	16 23	.....	.. ..	....
	December 15, B.												
12	Sun I, S	11	30 15.25	+ 0.51	**−35.69**	62 18 12.75	48.555	+1 58.4	**9.3**	17 29 40.07	+71.10	−23 33 15.4	....
13	Sun II, N	11	32 37.46	+ 0.51	**−35.69**	61 46 12.75	46.897	+1 55.7	**9.3**	17 32 2.28	−71.11	−23 0 44.3	....
14	o Herculis	10	4 15.46	+ 0.15	−35.73	10 6 11.80	44.479	+ 11.1	8.4	18 3	.....	.. ..	....
15	β Lyræ	11	47 0.08	+ 0.09	−35.64	5 36 11.70	44.854	+ 6.1	9.4	18 46	.....	.. ..	....
16	γ Lyræ	11	55 49.08	+ 0.09	−35.67	6 18 11.88	43.660	+ 6.9	9.6	18 55	.....	.. ..	....
17	ζ Aquilæ	11	1 26.53	+ 0.20	−35.73	25 8 11.95	43.340	+ 29.0	8.8	19 0	.....	.. ..	....
18	ρ Leonis	11	28 13.19	+ 0.29	−36.35	29 2 13.08	43.866	+ 34.6	7.8	10 27	.....	.. ..	....
19	41 Leonis Minoris	11	38 39.25	+ 0.19	−36.28	15 8 11.22	46.860	+ 16.9	7.5	10 38	.....	.. ..	....
20	Mars I, C	6	44 25.77	+ 0.28	**−36.29**	27 50 11.70	47.894	+ 32.9	**7.8**	10 43 49.76	+ 0.36	+10 59 34.9	....
21	Mars II	5	44 26.56	+ 0.28	**−36.29**	... .	......	....	....	10 43 50.55	− 0.43	.. ..	....
22	46 Leonis Minoris	11	48 23.69	+ 0.10	−36.17	4 6 11.42	45.968	+ 4.5	7.7	10 47	.....	.. ..	....
23	p³ Leonis	11	2 28.28	+ 0.34	−36.35	36 20 12.38	47.518	+ 45.9	8.3	11 1	.....	.. ..	....
24	ε Virginis	11	57 51.22	+ 0.34	−36.40	27 22 12.88	42.362	+ 32.4	9.1	12 57	.....	.. ..	....
25	θ Virginis	11	5 25.65	+ 0.44	−36.38	43 50 13.55	47.115	+1 0.0	7.9	13 4	.....	.. ..	....
26	Moon II, S	11	18 33.73	+ 0.50	**−36.40**	51 28 12.10	46.825	+1 18.6	**8.9**	13 17 57.83	−62.53	−12 42 4.2	....
27	α Virginis	7	20 34.78	+ 0.48	−36.40	49 28 12.55	46.465	+1 13.1	8.8	13 19	.....	.. ..	....
28	ζ Virginis	11	30 15.03	+ 0.41	−36.42	38 56 12.15	43.934	+ 50.5	9.8	13 29	.....	.. ..	....
	December 16, Hh.												
29	η Bootis	11	50 35.30	+ 0.36	−37.53	19 58 12.20	42.371	+ 22.8	8.3	13 49	.....	.. ..	....
30	π Hydræ	11	1 20.86	+ 0.75	−37.54	65 2.....	......	....	....	14 0	.....	.. ..	....
31	Moon II, S	11	7 4.39	+ 0.66	**−37.54**	55 2 12.15	47.173	+1 29.6	**8.6**	14 6 27.51	−63.83	−16 16 22.2	....
32	α Bootis	11	11 45.65	+.0.36	−37.52	19 8 29.61	47.055	+ 21.8	9.1	14 11	.....	.. ..	....
33	ε Bootis	11	41 16.54	+ 0.29	−37.55	11 22 11.72	43.404	+ 12.6	9.0	14 40	.....	.. ..	....
34	α² Libræ	11	46 0.88	+ 0.64	−37.60	54 28 12.40	43.001	+1 27.2	8.1	14 45	.....	.. ..	....
35	Venus II, S	11	24 37.79	+ 0.66	**−37.60**	55 36 12.62	47.720	+1 30.6	**8.5**	15 24 0.85	− 0.45	−16 50 34.2	....
36	Mercury C, C	11	20 39.73	+ 0.69	**−37.65**	59 4 12.50	43.644	+1 42.6	**8.4**	16 20 2.77	− 0.03	−20 14 13.2	....
	December 17, Hh.												
37	Sun I, N	11	39 8.94	+ 0.72	**−37.71**	61 52 13.05	44.620	+1 54.2	**8.2**	17 38 31.95	+71.16	−23 5 57.1	....
38	Sun II, S	11	41 31.27	+ 0.72	**−37.71**	62 24 12.20	46.325	+1 56.9	**8.2**	17 40 54.28	−71.17	−23 38 35.4	....
39	α Lyræ	11	34 11.46	+ 0.18	−37.59	0 10 11.32	43.184	+ 0.2	7.7	18 33	.....	.. ..	....
40	γ Lyræ	11	55 51.07	+ 0.24	−37.81	6 18 12.78	43.522	+ 6.8	7.2	18 55	.....	.. ..	....
41	ζ Aquilæ	11	1 28.46	+ 0.40	−37.86	25 8 12.72	43.331	+ 28.5	8.5	19 0	.....	.. ..	....
42	α Aquilæ	11	46 34.17	+ 0.44	−37.84	30 14 13.55	44.676	+ 35.4	8.5	19 45	.....	.. ..	....
	December 17, B.												
43	α² Libræ	11	46 1.88	+ 0.62	−38.56	54 28 12.30	43.166	+1 24.8	8.7	14 45	.....	.. ..	....
44	Moon II	11,	57 51.65	+ 0.65	**−38.57**	57 48	......	....	....	14 57 13.73	−65.37	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
14 12 41	30.16	18.2	14.7
15 16	30.20	20.4	18.0
15 48	30.20	21.6	19.2
16 25	30.19	24.0	20.3
15 17 32	30.17	26.0	23.1
18 2	30.16	27.4	23.8
18 52	30.145	29.0	25.0
19 7	30.14	29.5	25.2
10 29	30.13	23.0	21.2
11 5	30.135	22.0	21.0
12 53	30.16	20.8	20.2
13 33	30.17	20.8	20.2
16 13 55	30.15	18.7	18.9
14 26	30.15	20.9	19.8
14 49	30.15	22.2	21.0
15 29	30.16	25.8	24.6
16 23	30.15	28.8	26.7
17 17 41	30.11	31.3	29.9
18 40	30.09	33.5	32.0
19 52	30.06	34.4	33.0
14 40	29.90	30.3	29.7

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 12, 13, 26, 31, 35, 37, 38. Z. D. thread A used.
3, 26, 31. Bisections at II, III, IV, V, VI.
5, 22, 27, 38. Bisections at VI, VII.
9. Bisections at I, II, VII.
12, 37. Bisections at I, II.
13. Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+39 49.8	+14 47.7	...	+54 37.5
5	+ 5.5	....	+ 0.1	+ 5.6
10	+ 6.5	....	+ 0.2	+ 6.7
12	+ 8.0	+16 15.5	...	+16 23.5
13	+ 7.9	−16 15.5	...	−16 7.6
20	+ 3.8	....	0.0	+ 3.8
26	+42 22.2	+14 48.9	...	+57 11.1
31	+44 35.3	+14 52.9	...	+59 28.2
35	+ 5.5	+ 6.5	...	+ 12.0
36	+ 6.4	....	+ 0.1	+ 6.5
37	+ 7.9	−16 19.1	...	−16 11.2
38	+ 8.0	+16 19.1	...	+16 27.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Libræ	11	12 18.52	+ 0.56	−38.57	47 52 11.68	41.796	+1 6.9	8.6	15 11	.....	.. ..	....
2	Venus I, C.	6	29 36.73	+ 0.62	**−38.59**	56 0 11.68	44.458	+1 29.7	**9.2**	15 28 58.76	+ 0.36	−17 10 14.3	....
3	Venus II	5	29 37.60	+ 0.62	**−38.59**	... .	......	....	....	15 28 59.63	− 0.51	.. ..	....
4	α Serpentis	11	40 1.21	+ 0.42	−38.59	32 6 13.20	45.550	+ 38.0	8.6	15 39	.....	.. ..	....
5	δ Ophiuchi	10	9 47.12	+ 0.49	−38.62	42 16 12.82	46.392	+ 54.9	9.6	16 9	.....	.. ..	....
6	Mercury C, C.	11	26 27.09	+ 0.63	**−38.62**	59 26 12.52	41.698	+1 41.7	**9.2**	16 25 49.10	− 0.03	−20 35 34.2	....
	December 18, B.												
7	Sun I, N	11	43 36.34	+ 0.64	**−38.66**	61 54 12.68	44.553	+1 51.8	**9.2**	17 42 58.32	+71.15	−23 7 52.5	....
8	Sun II, S.	11	45 58.65	+ 0.64	**−38.66**	62 26 12.48	46.102	+1 54.4	**9.2**	17 45 20.63	−71.16	−23 40 27.6	....
9	ο Herculis	10	4 18.30	+ 0.24	−38.65	10 6 11.52	44.586	+ 10.7	9.0	18 3	.....	.. ..	....
10	β Lyræ	11	47 2.98	+ 0.21	−38.66	5 36 10.70	45.006	+ 5.9	10.3	18 46	.....	.. ..	....
11	γ Lyræ	11	55 51.94	+ 0.21	−38.65	6 18 11.22	43.719	+ 6.6	9.0	18 55	.....	.. ..	....
12	ζ Aquilæ	11	1 29.45	+ 0.35	−38.80	25 8 12.75	43.419	+ 27.9	9.4	19 0	.....	.. ..	....
	December 19, K.												
13	6 B. Ursæ Minoris s. p.	5	14 39.56	+ 6.89	[−38.45]	307 8	......	....	....	12 14	.....	.. ..	....
14	δ Piscium	11	44 13.59	+ 0.28	[−39.97]	31 48 11.92	43.581	+ 35.9	[7.2]	0 43	.....	.. ..	....
15	ε Piscium	11	58 29.15	+ 0.28	[−39.91]	31 30 11.50	41.610	+ 35.5	[7.4]	0 57	.....	.. ..	....
16	α Ursæ Minoris	5	24 35.06	− 9.56	[−40.34]	310 6	......	....	....	1 23	.....	.. ..	....
	December 21, K.												
17	6 B. Ursæ Minoris s. p.	5	14 44.36	+ 5.90	[−40.86]	307 8	......	....	....	12 14	.....	.. ..	....
18	δ Piscium	11	44 14.62	+ 0.39	[−41.14]	31 48 12.60	43.411	+ 37.1	[5.8]	0 43	.....	.. ..	....
19	ε Piscium	11	58 30.22	+ 0.39	[−41.11]	31 30 12.00	41.428	+ 36.7	[5.4]	0 57	.....	.. ..	....
20	α Ursæ Minoris	5	24 32.94	− 7.96	[−41.39]	310 6	......	....	....	1 23	.....	.. ..	....
	December 26, Hh.												
21	α Aquarii	11	1 24.79	+ 0.21	−42.90	39 38 10.25	45.581	+ 49.6	7.2	22 0	.....	.. ..	....
22	θ Aquarii	11	12 19.37	+ 0.27	−42.87	47 6 11.30	46.475	+1 4.5	6.4	22 11	.....	.. ..	....
23	Moon I	11	23 20.84	+ 0.25	**−42.87**	44 0	......	....	....	22 22 38.22	+66.76	.. ..	....
24	η Aquarii	11	30 59.10	+ 0.21	−42.86	39 28 12.32	44.252	+ 49.5	6.4	22 30	.....	.. ..	....
25	ζ Pegasi	11	37 14.52	+ 0.14	−42.86	28 32 7.48	43.512	+ 32.7	6.3	22 36	.....	.. ..	....
	December 26, K.												
26	6 B. Ursæ Minoris s. p.	5	14 48.78	+ 8.81	[−44.59]	307 8	......	....	....	12 14	.....	.. ..	....
27	δ Piscium	11	44 16.58	+ 0.30	[−43.06]	31 48 12.48	43.444	+ 37.5	[6.3]	0 43	.....	.. ..	....
28	ε Piscium	2	58 32.22	+ 0.30	[−43.07]	31 30 10.68	41.440	+ 37.1	[6.2]	0 57	.....	.. ..	....
29	α Ursæ Minoris	5	24 33.62	−12.27	[−42.58]	310 6	......	....	....	1 23	.....	.. ..	....
	December 27, S.												
30	η Aquarii	11	30 59.10	+ 0.40	−43.06	39 28 11.98	44.209	+ 49.5	5.4	22 30	.....	.. ..	....
31	λ Pegasi	11	42 28.83	+ 0.24	−43.00	15 48 9.60	44.509	+ 17.1	4.5	22 41	.....	.. ..	....
32	λ Aquarii	11	48 10.00	+ 0.45	−43.11	46 56 10.88	45.768	+1 4.3	4.8	22 47	.....	.. ..	....
33	Moon I, S	11	17 21.01	+ 0.40	**−43.01**	38 54 11.95	40.842	+ 48.7	**4.8**	23 16 38.40	+66.84	− 0 5 43.5	....
34	θ Piscium	11	23 40.08	+ 0.35	−43.09	33 0 15.25	45.174	+ 39.1	5.0	23 22	.....	.. ..	....
35	ι Piscium	11	35 34.95	+ 0.36	−43.17	33 44 10.28	47.660	+ 40.3	4.5	23 34	.....	.. ..	....
	December 27, K.												
36	6 B. Ursæ Minoris s. p.	5	14 49.78	+ 8.56	[−44.64]	307 8	......	....	....	12 14	.....	.. ..	....
37	δ Piscium	11	44 16.64	+ 0.38	[−43.21]	31 48 11.35	43.476	+ 37.4	[5.7]	0 43	.....	.. ..	....
38	ε Piscium	11	58 32.27	+ 0.37	[−43.20]	31 30 11.60	41.475	+ 37.0	[5.9]	0 57	.....	.. ..	....
39	α Ursæ Minoris	4	24 31.78	−11.77	[−42.22]	310 6	......	....	....	1 23	.....	.. ..	....
	December 28, K.												
40	α Andromedæ	11	4 0.28	+ 0.15	−43.35	10 18 9.22	44.936	+ 10.7	4.4	0 3	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
17 15 26	30.00	32.5	32.0
15 53	30.01	34.2	33.4
16 31	30.01	36.3	35.1
18 17 46	29.97	38.6	38.4
18 5	29.97	38.8	39.2
18 42	29.95	39.8	40.4
19 6	29.945	40.4	41.0
19 0 37	29.885	48.5	52.7
1 17	29.89	47.5	50.5
21 0 38	29.65	33.4	32.6
1 20	29.66	32.8	32.4
26 22 7	29.96	38.4	37.0
22 41	29.97	37.9	35.3
0 39	29.91	34.0	31.5
1 21	29.915	32.0	30.6
27 22 35	30.005	37.2	36.0
23 5	30.00	36.6	35.1
23 41	29.99	35.9	34.6
0 38	29.99	34.8	34.0
1 23	29.99	33.8	33.2
28 0 4	29.68	41.2	41.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4.	Bisections at II, VI, VII.
5, 28, 32.	Bisections at VI, VII.
7, 8, 33.	Z. D. thread A used.
7.	Bisections at I, II, III.
8.	Bisections at V, VI, VII.
33.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 5.5	....	+ 0.1	+ 5.6
6	+ 6.4	....	+ 0.1	+ 6.5
7	+ 7.9	−16 17.5	...	−16 9.6
8	+ 8.0	+16 17.5	...	+16 25.5
33	+36 56.2	+16 6.2	...	+53 2.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Moon I, S	11	11 50.21	+ 0.31	**—43.43**	33 34 11.70	44.750	+ 39.1	**4.8**	0 11 7.09	+67.44	+ 5 13 11.3	....
2	44 Piscium	11	21 3.70	+ 0.33	—43.48	37 26 11.80	47.144	+ 45.1	4.9	0 20	.....	.. ..	....
3	12 Ceti	11	25 43.16	+ 0.37	—43.45	43 20 10.58	45.996	+ 55.5	5.2	0 25	.....	.. ..	....
4	δ Piscium	11	44 16.95	+ 0.29	—43.44	31 48 11.68	43.452	+ 36.5	4.5	0 43	.....	.. ..	....
	December 28, B.												
5	α Serpentis	11	40 6.57	+ 0.39	—43.66	32 6 11.55	45.648	+ 38.3	6.1	15 39	.....	.. ..	....
6	ε Serpentis	11	46 35.91	+ 0.40	—43.66	34 4 11.52	44.449	+ 41.3	6.2	15 45	.....	.. ..	....
7	δ Scorpii	9	55 11.72	+ 0.60	—43.67	61 10 11.50	43.370	+1 50.4	4.0	15 54	.....	.. ..	....
8	β¹ Scorpii	10	0 23.72	+ 0.58	—43.63	58 22 10.00	43.114	+1 38.6	5.1	15 59	.....	.. ..	....
9	Venus I, C.......	5	25 45.64	+ 0.58	**—43.64**	59 6 10.60	45.210	+1 41.4	**5.4**	16 25 2.58	+ 0.39	—20 16 43.1	....
10	Venus II	6	25 46.55	+ 0.58	**—43.64**	... .	......	....	....	16 25 3.49	— 0.52	.. ..	....
11	ζ Ophiuchi	11	32 25.28	+ 0.51	—43.59	49 12 10.85	44.369	+1 10.4	4.9	16 31	.....	.. ..	....
12	Mercury C, C....	9	35 11.68	+ 0.61	**—43.65**	62 26 11.50	46.412	+1 55.2	**5.4**	17 34 28.64	— 0.01	—23 37 20.8	....
	December 29, B.												
13	Sun I, S	11	32 32.67	+ 0.60	**—43.65**	62 16 9.42	46.285	+1 54.3	**5.4**	18 31 49.62	+71.34	—23 30 28.6	....
14	Sun II, N........	11	34 55.35	+ 0.60	**—43.65**	61 44 9.28	44.248	+1 51.7	**5.4**	18 34 12.30	—71.34	—22 57 50.1	....
15	β Cygni	11	27 26.50	+ 0.20	—43.68	11 6 10.12	43.750	+ 11.8	5.0	19 26	.....	.. ..	....
16	γ Aquilæ..........	11	42 16.12	+ 0.31	—43.67	28 28 10.62	45.216	+ 32.5	5.8	19 41	.....	.. ..	....
17	γ Sagittæ	11	55 4.16	+ 0.24	—43.63	19 38 10.05	42.364	+ 21.4	5.8	19 54	.....	.. ..	....
18	α Delphini	11	35 45.49	+ 0.26	—43.64	23 16 12.28	47.038	+ 25.7	5.6	20 35	.....	.. ..	....
19	δ Piscium	11	44 17.23	+ 0.35	—43.79	31 48 11.48	43.490	+ 37.3	5.8	0 43	.....	.. ..	....
20	ε Piscium	11	58 32.85	+ 0.35	—43.78	31 30 11.05	41.498	+ 36.8	5.3	0 57	.....	.. ..	....
21	Moon I, S	11	7 38.51	+ 0.33	**—43.80**	28 34 13.88	45.405	+ 32.8	**5.4**	1 6 55.04	+68.51	+10 13 3.5	....
22	f Piscium	10	13 26.17	+ 0.39	—43.83	35 44 11.02	47.014	+ 43.3	5.3	1 12	.....	.. ..	....
23	θ¹ Ceti	11	19 48.95	+ 0.49	—43.80	47 32 11.70	43.662	+1 5.7	5.2	1 19	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
28 0 26	29.72	41.2	41.5
0 50	29.71	41.2	41.0
15 44	29.90	28.0	27.5
16 4	29.89	29.2	28.2
16 36	29.895	30.3	29.0
17 36	29.88	33.8	32.5
29 18 34	29.87	35.6	34.0
19 21	29.86	36.2	35.2
20 39	29.84	38.0	37.4
0 37	29.845	35.0	34.0
1 23	29.85	33.6	33.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 13, 14, 21. Z. D. thread A used.
1. Bisections at I, II, III, IV, V, VI, VII.
13. Bisections at I, II, III.
14. Bisections at V, VI, VII.
21. Bisections at II, III, IV, V, VI,

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+32 37.3	+16 9.0	...	+48 46.3
9	+ 5.5	....	0.0	+ 5.5
12	+ 5.8	....	0.0	+ 5.8
13	+ 8.0	+16 19.2	...	+16 27.2
14	+ 7.9	—16 19.2	...	—16 11.3
21	+28 15.2	+16 10.7	...	+44 25.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 1, B.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ζ Persei..........	11	48 41.59	+ 0.07	−44.80	7 16 10.00	43.128	+ 7.8	3.9	3 47	.....	.. ..	....
2	A^1 Tauri	11	59 37.44	+ 0.13	−44.83	17 2 10.00	44.889	+ 18.7	3.4	3 58	.....	.. ..	....
3	Moon I, S........	11	7 15.19	+ 0.14	**−44.79**	18 40 8.82	44.702	+ 20.6	**3.8**	4 6 30.54	+71.82	+20 7 32.6	....
4	γ Tauri	11	14 56.32	+ 0.17	−44.75	23 28 10.45	42.662	+ 26.4	4.2	4 14	.....	.. ..	....
5	ε Tauri	11	23 37.03	+ 0.15	−44.77	19 54 10.82	41.785	+ 22.0	3.8	4 22	.....	.. ..	....
	January 2, Hh.												
6	i Tauri............	11	46 22.22	+ 0.20	−45.13	20 10 10.15	46.179	+ 22.7	4.6	4 45	.....	.. ..	....
7	11 Orionis	11	59 41.97	+ 0.23	−45.15	23 34 11.12	46.962	+ 27.0	5.1	4 58	.....	.. ..	....
8	Moon I, S	11	9 46.18	+ 0.20	**−45.14**	18 0 35.52	30.798	+ 20.1	**4.8**	5 9 1.24	+71.73	+20 51 34.1	....
	January 2, Br.												
9	$β^1$ Scorpii	11	0 25.61	+ 0.56	−45.36	58 22 10.08	42.945	+1 42.0	4.9	15 59	.....	.. ..	....
10	δ Ophiuchi	11	9 54.20	+ 0.45	−45.29	42 16 10.82	46.331	+ 57.2	4.5	16 9	.....	.. ..	....
11	β Herculis.........	11	26 42.44	+ 0.29	−45.36	17 8 10.68	46.358	+ 19.4	3.6	16 25	.....	.. ..	....
12	Venus I	6	51 59.55	+ 0.58	**−45.33**	60 6	......	....	....	16 51 14.80	+ 0.33	.. ..	....
13	Venus II	5	52 0.32	+ 0.58	**−45.33**	... .	......	....	....	16 51 15.57	− 0.44	.. ..	....
14	α Ophiuchi........	11	31 4.83	+ 0.34	−45.30	26 12 11.82	46.722	+ 30.9	4.4	17 30	.....	.. ..	....
	January 3, Br.												
15	Sun I............	10	54 40.53	+ 0.59	**−45.33**	61 38	......	....	....	18 53 55.79	+71.06	.. ..	....
16	Sun II	10	57 2.65	+ 0.59	**−45.33**	... .	......	....	....	18 56 17.91	−71.06	.. ..	....
17	ε Cygni...........	8	42 56.96	+ 0.21	−45.35	5 16 10.08	41.179	+ 5.8	5.0	20 42	.....	.. ..	....
18	ζ Cygni...........	11	9 28.06	+ 0.24	−45.27	9 2 10.00	43.159	+ 9.9	4.5	21 8	.....	.. ..	....
19	ε Pegasi...........	11	40 4.38	+ 0.36	−45.35	29 26 11.78	41.962	+ 35.0	4.6	21 39	.....	.. ..	....
20	α Aquarii..........	11	1 26.98	+ 0.43	−45.35	39 38 12.48	45.280	+ 51.4	4.8	22 0	.....	.. ..	....
	January 3, K.												
21	6 B. Ursæ Minoris s. p.	5	14 56.18	+ 7.34	[−44.82]	307 8	......	....	....	12 14	.....	.. ..	....
22	δ Piscium	11	44 18.65	+ 0.37	[−45.30]	31 48 11.82	43.356	+ 38.7	[4.5]	0 43	.....	.. ..	....
23	ε Piscium	11	58 34.28	+ 0.37	[−45.30]	31 30 11.95	41.341	+ 38.3	[4.4]	0 57	.....	.. ..	....
24	α Ursæ Minoris....	5	24 26.46	−11.31	[−43.36]	310 6	......	....	....	1 23	.....	.. ..	....
	January 3, Br.												
25	i Tauri............	11	46 22.49	+ 0.37	−45.58	20 10 11.08	46.096	+ 23.2	4.4	4 45	.....	.. ..	....
26	11 Orionis..........	11	59 42.09	+ 0.38	−45.42	23 34 11.15	46.926	+ 27.5	4.9	4 58	.....	.. ..	....
27	β Tauri............	11	20 49.79	+ 0.30	−45.44	10 20 8.55	43.309	+ 11.5	5.1	5 20	.....	.. ..	....
28	χ Aurigæ...........	11	27 5.01	+ 0.28	−45.50	6 44 9.48	44.419	+ 7.5	5.3	5 26	.....	.. ..	....
29	Neptune C, C	11	49 39.95	+ 0.34	**−45.50**	16 40 10.68	45.045	+ 18.9	**4.9**	5 48 54.79	.....	+22 10 41.6	....
30	ν Orionis	11	2 42.79	+ 0.39	−45.52	24 4 11.68	44.408	+ 28.2	5.0	6 1	.....	.. ..	....
31	Moon I, S........	11	11 28.11	+ 0.37	**−45.51**	18 40 10.95	41.113	+ 21.4	**4.9**	6 10 42.97	+70.73	+20 8 39.6	....
32	ν Geminorum......	11	23 52.81	+ 0.36	−45.52	18 34 11.55	45.814	+ 21.2	4.4	6 23	.....	.. ..	....
33	γ Geminorum......	11	32 47.20	+ 0.38	−45.49	22 22 11.52	43.951	+ 25.9	4.9	6 32	.....	.. ..	....
	January 3, Hh.												
34	α Coronæ Borealis..	11	31 14.61	+ 0.29	−45.41	11 48 10.65	45.218	+ 13.2	4.1	15 30	.....	.. ..	....
35	α Serpentis........	11	40 8.47	+ 0.45	−45.46	32 6 11.95	45.542	+ 39.4	4.3	15 39	.....	.. ..	....
36	ε Serpentis........	11	46 37.82	+ 0.47	−45.48	34 4 11.32	44.424	+ 42.4	5.4	15 45	.....	.. ..	....
37	δ Ophiuchi........	11	9 54.31	+ 0.54	−45.46	42 16 11.55	46.331	+ 56.8	4.6	16 9	.....	.. ..	....
38	Venus II, S......	11	57 17.54	+ 0.70	**−45.46**	60 20 11.30	34.910	+1 48.6	**4.2**	16 56 32.78	− 0.44	−21 30 49.4	....
39	Mercury C, C	10	15 23.89	+ 0.73	**−45.47**	63 10 11.92	46.981	+2 0.9	**3.8**	18 14 39.15	− 0.01	−24 21 39.5	....
	January 4, Hh.												
40	Sun I, S	11	59 4.74	+ 0.71	**−45.48**	61 50 11.15	35.892	+1 53.6	**3.5**	18 58 19.97	+70.87	−23 1 11.7	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
1 3 42	30.17	35.2	34.0
4 28	30.17	34.9	33.5
2 4 50	30.25	28.1	27.4
5 19	30.25	28.0	27.4
15 54	30.405	22.2	20.2
16 15	30.41	23.5	20.9
16 31	30.41	23.9	21.1
17 36	30.42	26.3	22.8
3 18 57	30.39	27.5	24.5
20 46	30.37	32.0	26.1
21 46	30.365	29.0	26.2
22 8	30.36	28.7	26.3
0 38	30.35	25.4	24.4
1 20	30.36	24.0	22.8
4 43	30.34	21.2	20.0
5 34	30.335	21.1	19.5
6 38	30.31	20.5	19.0
15 26	30.21	18.4	17.7
15 52	30.21	20.9	19.7
16 17	30.21	22.8	21.6
16 53	30.20	25.4	24.1
18 11	30.15	29.4	28.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1.	Bisections at II, VI, VII.
3, 8, 31, 38, 40.	Z. D. thread A used.
3, 8, 31.	Bisections at II, III, IV, V, VI.
19.	Bisections at I, II, VI.
40.	Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+18 47.3	+16 5.8	...	+34 53.1
8	+17 57.9	+16 0.1	...	+33 58.0
29	+ 0.1	....	...	+ 0.1
31	+18 30.3	+15 52.3	...	+34 22.6
38	+ 5.4	+ 6.1	...	+ 11.5
39	+ 5.7	....	0.0	+ 5.7
40	+ 7.9	+16 19.3	...	+16 27.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun II, N.	11	1 26.48	+ 0.71	**−45.48**	61 18 10.38	33.830	+1 51.0	**3.5**	19 0 41.71	−70.87	−22 28 33.0	....
2	γ Aquilæ	11	42 17.88	+ 0.42	−45.51	28 28 12.65	45.038	+ 32.9	3.9	19 41	.....	.. ..	....
3	α Aquilæ	11	46 41.95	+ 0.44	−45.57	30 14 11.55	44.638	+ 35.3	2.9	19 45	.....	.. ..	....
4	γ Sagittæ	10	55 5.86	+ 0.36	−45.43	19 38 10.92	42.180	+ 21.6	2.0	19 54	.....	.. ..	....
5	ε Cygni	11	42 57.01	+ 0.23	−45.43	5 16 10.50	41.129	+ 5.6	4.0	20 42	.....	.. ..	....
	January 4, K.												
6	6 B. Ursæ Minoris s. p.	5	14 56.38	+ 8.08	[−45.06]	307 8	......	....	....	12 14	.....	.. ..	....
7	δ Piscium	11	44 18.95	+ 0.44	[−45.68]	31 48 11.20	43.418	+ 37.4	[3.7]	0 43	.....	.. ..	....
8	ε Piscium	11	58 34.58	+ 0.43	[−45.67]	31 30 11.70	41.411	+ 37.0	[4.1]	0 57	.....	.. .. ..	....
9	α Ursæ Minoris	5	24 26.10	−10.87	[−44.38]	310 6	......	....	....	1 23	.....	.. ..	....
	January 4, Hh.												
10	β Tauri	11	20 50.06	+ 0.24	−45.65	10 20 10.22	43.168	+ 11.1	3.7	5 20	.....	.. ..	....
11	Neptune C, C	11	49 33.13	+ 0.29	**−45.69**	16 40 11.12	45.059	+ 18.2	**3.9**	5 48 47.73	.....	+22 10 40.5	....
12	ν Orionis	11	2 43.05	+ 0.35	−45.74	24 4 11.38	44.459	+ 27.1	4.5	6 1	.....	.. ..	....
13	η Geminorum	11	9 42.09	+ 0.29	−45.63	16 18 10.25	47.091	+ 17.8	3.6	6 8	.....	.. ..	....
14	Moon II, S	11	13 14.38	+ 0.33	**−45.71**	20 44 11.12	33.283	+ 23.0	**3.9**	7 12 29.00	−69.02	+18 7 7.0	....
15	β Canis Minoris	11	22 34.71	+ 0.40	−45.76	30 22 11.30	42.571	+ 35.6	3.9	7 21	.....	.. ..	....
	January 5, B.												
16	Neptune C, C	11	49 26.65	+ 0.35	**−46.14**	16 40 9.42	45.145	+ 18.5	**3.6**	5 48 40.86	.....	+22 10 40.0	....
17	θ Aurigæ	11	53 47.04	+ 0.24	−46.08	1 38 8.70	47.214	+ 1.8	3.6	5 53	.....	.. ..	....
18	ν Orionis	11	2 43.47	+ 0.40	−46.20	24 4 10.40	44.454	+ 27.5	3.8	6 1	.....	.. ..	....
19	η Geminorum	11	9 42.55	+ 0.35	−46.15	16 18 9.40	47.129	+ 18.1	3.8	6 8	.....	.. ..	....
20	μ Geminorum	11	17 46.70	+ 0.35	−46.14	16 18 9.38	41.696	+ 18.0	3.3	6 17	.....	.. ..	....
21	φ Geminorum	11	48 14.84	+ 0.32	−46.16	11 50 9.18	43.979	+ 13.0	4.3	7 47	.....	.. ..	....
22	ω¹ Cancri	11	55 44.95	+ 0.33	−46.19	13 12 9.60	42.324	+ 14.5	4.2	7 54	.....	.. ..	....
23	Moon II, S.	11	9 32.84	+ 0.40	**−46.19**	23 44 10.42	49.211	+ 27.3	**4.0**	8 8 47.05	−66.97	+15 1 58.0	....
24	β Cancri	8	11 56.94	+ 0.43	−46.21	29 22 10.30	42.335	+ 34.8	4.5	8 11	.....	.. ..	....
25	η Cancri	11	27 47.35	+ 0.36	−46.20	18 4 9.58	45.728	+ 20.2	3.2	8 27	.....	.. ..	....
	January 6, Br.												
26	σ Hydræ	11	34 23.57	+ 0.45	−46.73	35 10 10.95	42.330	+ 42.6	5.1	8 33	.....	.. ..	....
27	ε Hydræ	11	42 20.63	+ 0.43	−46.73	32 4 11.05	43.848	+ 37.9	4.9	8 41	.....	.. ..	....
28	Moon II, S	11	2 34.40	+ 0.43	**−46.75**	27 36 11.32	45.134	+ 31.7	**5.1**	9 1 48.08	−64.98	+11 11 12.0	....
29	θ Hydræ	11	10 1.34	+ 0.46	−46.76	36 6 11.12	46.698	+ 44.2	5.2	9 9	.....	.. ..	....
30	ο Leonis	11	36 40.55	+ 0.40	−46.79	28 30 11.32	45.344	+ 32.9	5.2	9 35	.....	.. ..	....
	January 7, Hh.												
31	ο Leonis	11	36 40.95	+ 0.38	−47.14	28 30 10.00	45.330	+ 32.9	3.5	9 35	.....	.. ..	....
32	Moon II, S	11	52 40.75	+ 0.41	**−47.16**	31 58 9.88	36.200	+ 37.8	**3.3**	9 51 54.00	−63.32	+ 6 51 56.9	....
33	π Leonis	11	55 47.75	+ 0.39	−47.17	30 20 12.38	43.184	+ 35.5	2.7	9 55	.....	.. ..	....
34	α Leonis	11	3 54.80	+ 0.36	−47.13	26 24 9.52	44.005	+ 30.1	3.7	10 3	.....	.. ..	....
35	Mars I, C	6	1 13.47	+ 0.38	**−47.22**	28 44 9.72	45.676	+ 33.3	**3.3**	11 0 26.63	+ 0.32	+10 6 14.6	....
36	Mars II	5	1 14.16	+ 0.38	**−47.22**	... .	......	....	....	11 0 27.32	− 0.37	.. ..	....
37	τ Leonis	11	23 39.22	+ 0.43	−47.28	35 26 10.02	46.181	+ 43.2	3.2	11 22	.....	.. ..	....
	January 7, B.												
38	α Scorpii	7	24 6.84	+ 0.62	−47.16	65 2 10.30	43.402	+2 10.0	2.9	16 23	.....	.. ..	....
39	ζ Ophiuchi	11	32 29.03	+ 0.49	−47.08	49 12 9.02	44.466	+1 10.3	3.7	16 31	.....	.. ..	....
40	η Ophiuchi	11	5 28.54	+ 0.53	−47.15	54 26 9.18	44.118	+1 24.6	4.4	17 4	.....	.. ..	....
41	Venus I, C	6	18 35.70	+ 0.58	**−47.14**	60 58 8.88	41.912	+1 48.7	**4.3**	17 17 49.14	+ 0.38	−22 7 46.5	....
42	Venus II	5	18 36.58	+ 0.58	**−47.14**	... .	......	....	....	17 17 50.02	− 0.50	.. ..	....
43	α Ophiuchi	11	31 6.75	+ 0.34	−47.11	26 12 9.62	46.963	+ 29.8	5.3	17 30	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
4	19	1	30.105	31.7	31.0
	19	58	30.06	33.8	34.0
	20	37	30.05	35.3	35.2
	0	39	29.98	33.6	34.1
	1	20	29.975	32.2	33.7
	5	16	29.95	29.1	29.7
	5	55	29.96	29.4	30.8
	7	0	29.96	29.8	33.2
	7	28	29.96	30.1	30.0
5	5	40	30.150	26.5	27.8
	6	21	30.15	26.0	27.0
	7	47	30.15	25.0	25.5
	8	28	30.145	24.3	25.0
6	8	38	29.86	31.5	30.7
	9	16	29.845	31.9	30.2
	9	40	29.84	31.7	30.0
7	9	47	30.02	33.3	32.8
	10	11	30.03	33.0	32.0
	10	58	30.03	32.4	31.8
	11	30	30.02	32.4	31.7
	16	22	30.065	33.5	31.5
	16	46	30.08	34.8	32.8
	17	32	30.085	36.8	34.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 14, 23, 28, 32. Z. D. thread A used.
1, 24. Bisections at VI, VII.
14, 23, 28, 32. Bisections at II, III, IV, V, VI.
27, 43. Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 7.9	−16 19.4	...	−16 11.5
11	+ 0.1	....	...	+ 0.1
14	+20 13.9	+15 42.6	...	+35 56.5
16	+ 0.1	....	...	+ 0.1
23	+22 50.1	+15 31.8	...	+38 21.9
28	+25 57.7	+15 20.9	...	+41 18.6
32	+29 18.0	+15 10.5	...	+44 28.5
35	+ 4.7	....	+ 0.1	+ 4.8
41	+ 5.4	....	0.0	+ 5.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Mercury I, C	6	42 55.08	+ 0.60	**−47.18**	63 14 9.48	46.691	+1 58.6	**4.3**	18 42 8.50	+ 0.23	−24 25 28.6	....
2	Mercury II	5	42 55.56	+ 0.60	**−47.18**	... .	......	....	....	18 42 8.98	− 0.25	.. ..	....
	January 8, B.												
3	Sun I, S.........	11	16 38.90	+ 0.58	**−47.20**	61 18 9.78	46.835	+1 49.2	**4.3**	19 15 52.28	+70.64	−22 32 35.4	....
4	Sun II, N	11	19 0.19	+ 0.58	**−47.20**	60 46 9.42	45.018	+1 46.7	**4.3**	19 18 13.57	−70.65	−22 0 1.2	....
5	γ Aquilæ..........	11	42 19.68	+ 0.35	−47.22	28 28 10.48	45.229	+ 32.4	4.1	19 41	.....	.. ..	....
6	α Aquilæ..........	11	46 43.70	+ 0.36	−47.22	30 14 9.25	44.872	+ 34.8	3.9	19 45	.....	.. ..	....
7	β Aquilæ..........	11	51 13.57	+ 0.38	−47.25	32 40 9.40	47.292	+ 38.3	5.2	19 50	.....	.. ..	....
8	α Delphini	9	35 48.97	+ 0.32	−47.19	23 16 10.50	47.201	+ 25.6	5.0	20 35	.....	.. ..	....
9	γ^1 Leonis	11	15 20.03	+ 0.22	−47.32	18 30	......	....	....	10 14	.....	.. ..	....
10	ρ Leonis	11	28 24.91	+ 0.28	−47.33	29 2 10.70	44.100	+ 33.0	4.0	10 27	.....	.. ..	....
11	Moon II, S	11	40 33.45	+ 0.34	**−47.34**	36 28 9.32	45.736	+ 44.0	**4.0**	10 39 46.45	−62.15	+ 2 18 49.1	....
12	*l* Leonis	11	44 52.20	+ 0.28	−47.40	27 46 9.60	46.845	+ 31.3	4.0	10 44	.....	.. ..	....
13	Mars I, C........	5	1 29.16	+ 0.28	**−47.33**	28 44 10.02	43.850	+ 32.6	**4.0**	11 0 42.11	+ 0.44	+10 6 50.7	....
14	Mars II	6	1 30.10	+ 0.28	**−47.33**	... .	......	....	....	11 0 43.05	− 0.50	.. ..	....
15	δ Leonis	11	9 39.47	+ 0.21	−47.32	17 46 9.25	48.160	+ 19.1	3.5	11 8	.....	.. ..	....
16	ν Ursæ Majoris....	11	13 56.88	+ 0.12	−47.34	5 14 7.38	42.578	+ 5.5	4.4	11 13	.....	.. ..	....
	January 9, K.												
17	6 B. Ursæ Minoris s. p.	5	15 3.54	+ 8.86	[−49.40]	307 8	......	....	....	12 14	.....	.. ..	....
18	δ Piscium	11	44 20.97	+ 0.28	[−47.60]	31 48 9.45	43.718	+ 36.1	[6.1]	0 43	.....	.. ..	....
19	ε Piscium	11	58 36.61	+ 0.28	[−47.61]	31 30 9.22	41.732	+ 35.7	[6.2]	0 57	.....	.. ..	....
20	α Ursæ Minoris....	5	24 24.80	−12.38	[−46.92]	310 6	......	....	....	1 23	.....	.. ..	....
	January 9, Hh.												
21	*l* Leonis	11	44 52.64	+ 0.25	−47.78	27 46 9.22	46.878	+ 31.4	4.2	10 44	.....	.. ..	....
22	Mars I, C........	5	1 41.96	+ 0.26	**−47.76**	28 42 9.30	47.405	+ 32.7	**4.3**	11 0 54.46	+ 0.44	+10 7 43.4	....
23	Mars II	6	1 42.90	+ 0.26	**−47.76**	... .	......	....	....	11 0 55.40	− 0.50	.. ..	....
24	δ Crateris	10	15 12.56	+ 0.40	−47.74	53 4 8.52	46.265	+1 19.3	4.8	11 14	.....	.. ..	....
25	Moon II, S	11	27 2.70	+ 0.33	**−47.74**	41 6 9.02	36.315	+ 52.1	**4.3**	11 26 15.29	−61.55	− 2 16 17.7	....
26	υ Leonis	11	32 41.89	+ 0.32	−47.79	39 8 9.80	41.895	+ 48.6	3.9	11 31	.....	.. ..	....
27	η Virginis	11	15 39.17	+ 0.31	−47.64	38 58 8.78	43.100	+ 48.3	4.3	12 14	.....	.. ..	....
	January 11, B.												
28	κ Ophiuchi.........	11	53 46.37	+ 0.24	−47.82	29 18 9.35	47.452	+ 33.1	3.6	16 52	.....	.. ..	....
29	η Ophiuchi.........	11	5 29.46	+ 0.38	−47.82	54 26 9.78	44.178	+1 22.3	3.5	17 4	.....	.. ..	....
30	α^1 Herculis..........	11	10 55.36	+ 0.21	−47.83	24 20 9.50	46.371	+ 26.7	3.8	17 10	.....	.. ..	....
31	Venus I, C	6	40 4.63	+ 0.42	**−47.82**	61 24 7.88	43.891	+1 48.0	**4.2**	17 39 17.23	+ 0.41	−22 34 22.9	....
32	Venus II	5	40 5.56	+ 0.42	**−47.82**	... .	......	....	....	17 39 18.16	− 0.52	.. ..	....
33	ζ Aquilæ...........	11	1 38.81	+ 0.21	−47.83	25 8 9.82	43.583	+ 27.7	5.3	19 0	.....	.. ..	....
34	Mercury C	..	.. ..	....	.....	62 56 9.78	46.222	+1 55.3	**4.2**	19 10	.....	−24 7 14.7	....
	January 12, B.												
35	Sun I, N	11	34 3.86	+ 0.42	**−47.81**	60 10 9.52	46.710	+1 43.1	**4.2**	19 33 16.47	+70.37	−21 24 26.7	....
36	α Aquilæ..........	11	46 44.43	+ 0.24	−47.80	30 14 9.58	45.007	+ 34.5	5.1	19 45	.....	.. ..	....
37	ζ Cygni	11	9 30.61	+ 0.13	−47.74	9 2 8.42	43.328	+ 9.4	3.7	21 8	.....	.. ..	....
38	ι Pegasi............	3	18 17.91	+ 0.19	−47.81	19 28	......	....	....	21 17	.....	.. ..	....
39	α Aquarii..........	9	1 29.56	+ 0.29	−47.83	39 38 10.30	45.628	+ 49.0	4.3	22 0	.....	.. ..	....
40	41 Leonis Minoris...	11	38 51.86	+ 0.23	−48.02	15 8 8.20	47.000	+ 16.3	2.9	10 38	.....	.. ..	....
41	*l* Leonis	11	44 52.91	+ 0.29	−48.01	27 46 8.82	46.844	+ 31.7	3.0	10 44	.....	.. ..	....
42	Mars C...........	..	.. ..	....	.....	28 38 9.38	46.152	+ 32.9	**2.8**	11 1	.....	+10 12 5.7	....
43	δ Leonis	11	9 40.12	+ 0.24	−47.88	17 46 9.25	48.090	+ 19.3	2.7	11 8	.....	.. ..	....
44	ν Ursæ Majoris....	..	.. ..	....	.....	5 14 7.00	42.526	+ 5.6	2.8	11 13	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
7 18 41	30.065	38.6	37.8
8 19 19	30.04	39.6	39.2
19 54	30.02	40.8	40.1
20 41	30.010	41.8	41.2
10 11	29.84	38.0	38.8
10 50	29.835	39.0	38.8
11 20	29.83	39.0	38.5
9 0 38	29.94	52.0	51.4
1 20	29.95	50.2	49.7
10 49	29.92	40.2	38.6
11 35	29.89	39.4	37.6
12 21	29.88	38.9	37.2
11 16 18	29.58	39.8	38.6
17 14	29.60	40.3	38.8
17 48	29.62	40.2	38.0
18 58	29.63	40.4	38.2
12 19 36	29.62	40.0	37.9
20 12	29.62	40.0	37.6
21 6	29.62	40.2	37.8
22 9	29.63	39.5	38.0
10 28	29.765	32.8	32.2
11 22	29.765	32.8	32.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 4, 11, 25, 35.	Z. D. Thread A used.
3, 35.	Bisections at I, II, III.
4.	Bisections at V, VI, VII.
7, 33, 43.	Bisections at II, VI, VII.
11, 25.	Bisections at II, III, IV, V, VI.
34, 39.	Bisections at I, II.
36.	Bisections at I, II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 5.6	....	+ 0.0	+ 5.6
3	+ 7.9	+16 17.1	...	+16 25.0
4	+ 7.8	−16 17.0	...	−16 9.2
11	+32 37.3	+15 1.4	...	+47 38.7
13	+ 4.8	....	+ 0.1	+ 4.9
22	+ 4.8	....	+ 0.1	+ 4.9
25	+35 46.2	+14 54.4	...	+50 40.6
31	+ 5.3	....	0.0	+ 5.3
34	+ 5.5	....	0.0	+ 5.5
35	+ 7.8	−16 17.9	...	−16 10.1
42	+ 5.0	....	+ 0.1	+ 5.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	θ Virginis.........	11	5 38.31	+ 0.37	−48.07	43 50 9.70	47.470	+ 57.8	3.0	13 4	.....	.. ..	....
2	α Ursæ Minoris S. P.	8	23 55.35	+ 8.36	[−41.71]	307 40 6.90	43.510	−1 17.6	[3.0]	1 23	.....	.. ..	....
3	*m* Virginis.........	11	37 13.64	+ 0.39	−48.07	47 2 8.82	45.759	+1 4.7	3.6	13 36	.....	.. ..	....
4	Moon II, S......	11	46 49.99	+ 0.44	**−48.06**	53 28 9.05	43.117	+1 21.4	**3.4**	13 46 2.37	−63.11	−14 40 58.3	....
5	η Bootis...........	11	50 46.75	+ 0.25	−48.00	19 58 8.65	42.666	+ 21.9	3.3	13 49	.....	.. ..	....
6	κ Virginis.........	11	8 25.42	+ 0.40	−48.09	48 38 9.70	47.216	+1 8.5	3.5	14 7	.....	.. ..	....
	January 13, Br.												
7	κ Virginis.........	11	8 25.65	+ 0.51	−48.39	48 38 9.55	47.171	+1 9.4	3.3	14 7	.....	.. ..	....
8	λ Virginis.........	11	14 33.89	+ 0.53	−48.41	51 44 8.80	47.211	+1 17.4	3.6	14 13	.....	.. ..	....
9	Moon II, S......	11	36 9.28	+ 0.57	**−48.40**	56 40 8.15	44.651	+1 32.8	**3.5**	14 35 21.45	−64.49	−17 53 38.1	....
10	α^2 Libræ...........	11	46 12.65	+ 0.54	−48.41	54 28 8.88	43.249	+1 25.3	3.5	14 45	.....	.. ..	....
	January 14, B.												
11	κ Ophiuchi........	11	53 47.18	+ 0.34	−48.65	29 18 8.98	47.498	+ 33.0	3.4	16 52	.....	.. ..	....
12	η Ophiuchi........	11	5 30.32	+ 0.47	−48.70	54 26 9.42	44.224	+1 21.9	3.5	17 4	.....	.. ..	....
13	α^1 Herculis.........	11	10 56.17	+ 0.31	−48.67	24 20 8.80	46.438	+ 26.5	3.5	17 10	.....	.. ..	....
14	α Ophiuchi........	11	31 8.46	+ 0.32	−48.67	26 12 9.38	47.070	+ 28.8	4.0	17 30	.....	.. ..	....
15	Venus I, C	6	56 17.00	+ 0.52	**−48.67**	61 36 10.62	46.734	+1 47.0	**4.1**	17 55 28.85	+ 0.42	−22 47 19.2	....
16	Venus II........	5	56 17.94	+ 0.52	**−48.67**	... .	......	....	....	17 55 29.79	− 0.52	.. ..	....
17	δ Ursæ Minoris....	2	4 37.35	− 2.56	[−49.42]	312 16	......	....	....	18 3	.....	.. ..	....
18	Mercury I, C.....	6	32 0.15	+ 0.50	**−48.67**	62 28 9.48	43.585	+1 49.7	**5.2**	19 31 11.98	+ 0.38	−23 38 19.3	....
19	Mercury II......	5	32 0.92	+ 0.50	**−48.67**	... .	......	....	....	19 31 12.75	− 0.39	.. ..	....
	January 15, B.												
20	Sun I, S.........	11	47 1.53	+ 0.47	**−48.67**	60 12 9.40	45.185	+1 40.0	**5.4**	19 46 13.33	+70.13	−21 25 53.1	....
21	Sun II, N	11	49 21.79	+ 0.47	**−48.67**	59 40 7.72	43.475	+1 37.9	**5.4**	19 48 33.59	−70.13	−20 53 20.0	....
22	1 Pegasi	11	18 18.82	+ 0.14	−48.67	19 28 8.78	44.206	+ 20.2	6.0	21 17	.....	.. ..	....
23	β Aquarii..........	11	27 9.16	+ 0.30	−48.66	44 50 9.40	46.425	+ 56.6	5.6	21 26	.....	.. ..	....
24	ε Pegasi...........	11	40 7.84	+ 0.19	−48.67	29 26 10.02	42.386	+ 32.1	7.3	21 39	.....	.. ..	....
25	α Aquarii..........	11	1 30.47	+ 0.25	−48.70	39 38 9.82	45.822	+ 47.2	7.4	22 0	.....	.. ..	....
	January 15, Hh.												
26	Moon II.........	11	21 54.90	+ 0.48	**−49.02**	60 32	......	....	....	16 21 6.36	−67.54	.. ..	....
27	α Scorpii..........	11	24 9.10	+ 0.50	−49.06	65 2 9.80	43.841	+2 5.2	5.7	16 23	.....	.. ..	....
28	ζ Ophiuchi........	11	32 31.25	+ 0.39	−48.98	49 12 9.60	44.642	+1 7.7	4.0	16 31	.....	.. ..	....
29	α Lyræ............	11	34 23.20	+ 0.10	−48.99	0 10 7.50	43.685	+ 0.2	4.4	18 33	.....	.. ..	....
30	β Lyræ............	11	47 13.61	+ 0.14	−48.98	5 36 8.05	45.304	+ 5.7	4.9	18 46	.....	.. ..	....
	January 16, Hh.												
31	Sun I, S........,	11	51 19.68	+ 0.46	**−48.98**	60 4 8.98	35.327	+1 38.1	**5.7**	19 50 31.16	+69.92	−21 14 41.4	....
32	Sun II, N........	11	53 39.53	+ 0.46	**−48.98**	59 32 9.05	33.353	+1 36.0	**5.7**	19 52 51.01	−69.93	−20 42 5.1	....
33	ε Cygni...........	11	43 0.57	+ 0.14	−48.90	5 16 8.42	41.538	+ 5.2	6.5	20 42	.....	.. ..	....
34	ζ Cygni...........	11	9 31.78	+ 0.16	−48.94	9 2 8.88	43.464	+ 9.0	5.3	21 8	.....	.. ..	....
35	β Aquarii..........	11	27 9.45	+ 0.36	−49.01	44 50 9.32	46.508	+ 55.6	6.1	21 26	.....	.. ..	....
36	ε Pegasi...........	11	40 8.07	+ 0.28	−48.99	29 26 10.75	42.374	+ 31.5	7.1	21 39	.....	.. ..	....
37	δ Ursæ Minoris S. P.	4	4 29.62	+ 3.59	[−47.72]	305 30 8.00	42.461	−1 19.9	[6.8]	18 3	.....	.. ..	....
38	μ Geminorum	11	17 49.91	+ 0.08	[−49.03]	16 18 8.75	41.966	+ 16.8	[6.6]	6 17	.....	.. ..	....
39	γ Geminorum	11	32 51.07	+ 0.11	[−49.01]	22 22 9.05	44.302	+ 23.6	[6.3]	6 32	.....	.. ..	....
40	51 H. Cephei.......	4	55 39.32	− 4.14	[−45.50]	311 40 7.85	44.906	−1 4.1	[7.5]	6 54	.....	.. ..	....
	January 18, Hh.												
41	δ Ursæ Minoris S. P.	11	4 30.36	+ 4.65	[−49.36]	305 30 7.88	42.606	−1 25.9	[4.1]	18 3	.....	.. ..	....
42	μ Geminorum	11	17 50.00	+ 0.24	[−49.27]	16 18 8.95	41.671	+ 18.1	[2.4]	6 17	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
12 13 0	29.77	31.8	31.5
13 48	29.785	31.6	31.2
14 10	29.795	31.5	31.2
13 14 5	29.79	25.9	24.8
14 40	29.80	26.2	25.8
15 14	29.79	26.5	25.5
14 16 44	29.56	39.8	39.4
17 33	29.59	42.8	43.0
18 0	29.60	46.0	47.8
19 30	29.59	50.4	51.8
15 19 49	29.59	51.1	52.7
21 14	29.58	53.8	55.2
22 6	29.585	55.8	55.3
16 15	29.43	39.7	39.0
16 54	29.45	42.7	41.6
18 40	29.42	48.7	49.6
16 19 53	29.36	53.4	54.8
20 36	29.34	54.6	57.5
21 43	29.34	60.8	61.9
6 9	29.42	49.4	49.4
7 50	29.41	49.0	48.9
18 5 58	29.78	21.9	20.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 37, 41.	Bisections at c_5, c_4, c_3, c_2, c_1.
4, 9, 20, 21, 31, 32.	Z. D. thread A used.
4, 9.	Bisections at II, III, IV, V, VI.
20, 31.	Bisections at I, II, III.
21, 32.	Bisections at V, VI, VII.
40.	Bisections at c_1, c_2, c_3, c_4, c_5.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+43 33.4	+14 49.9	...	+58 23.3
9	+45 31.9	+14 54.4	...	+60 26.3
15	+ 5.3	....	0.0	+ 5.3
18	+ 5.5	....	0.0	+ 5.5
20	+ 7.8	+16 16.5	...	+16 24.3
21	+ 7.7	−16 16.5	...	−16 8.8
31	+ 7.8	+16 18.1	...	+16 25.9
32	+ 7.7	−16 18.1	...	−16 10.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ν Geminorum......	11	23 56.78	+ 0.26	[−49.31]	18 34 9.70	45.852	+ 20.8	[2.7]	6 23	.....	.. ..	....
2	51 H. Cephei	11	55 42.95	− 5.04	[−48.21]	311 40 8.02	44.980	−1 8.9	[4.9]	6 54	.....	.. ..	....
	January 18, B.												
3	η Ophiuchi	10	5 31.17	+ 0.60	−49.57	54 26 10.18	43.971	+1 26.1	3.3	17 4	.....	.. ..	....
4	α¹ Herculis..........	11	10 56.95	+ 0.43	−49.47	24 20 9.18	46.304	+ 27.9	1.9	17 10	.....	.. ..	....
5	α Ophiuchi	11	31 9.28	+ 0.44	−49.52	26 12 10.48	46.906	+ 30.4	2.7	17 30	.....	.. ..	....
6	μ Herculis..........	11	43 23.65	+ 0.36	−49.41	11 4 8.22	45.544	+ 12.1	2.1	17 42	.....	.. ..	....
7	Venus I, C	6	17 57.27	+ 0.65	**−49.50**	61 44 10.18	44.884	+1 54.3	**2.8**	18 17 8.42	+ 0.52	−22 54 51.9	....
8	Venus II	5	17 58.42	+ 0.65	**−49.50**	... .	......	....	....	18 17 9.57	− 0.63	.. ..	....
	January 19, B.												
9	Sun I, N..........	10	4 8.86	+ 0.63	**−49.51**	58 52 9.38	45.808	+1 42.4	**2.8**	20 3 19.98	+69.80	−20 6 10.0	....
10	Sun II, S..........	11	6 28.46	+ 0.63	**−49.51**	59 24 8.70	47.457	+1 44.7	**2.8**	20 5 39.58	−69.80	−20 38 46.8	....
11	ζ Cygni	11	9 32.15	+ 0.35	−49.51	9 2 8.78	43.288	+ 9.9	2.8	21 8	.....	.. ..	....
12	ι Pegasi...........	11	18 19.28	+ 0.40	−49.39	19 28 9.42	43.944	+ 22.0	2.6	21 17	.....	.. ..	....
13	β Aquarii..........	11	27 9.85	+ 0.54	−49.59	44 50 10.25	46.110	+1 1.7	3.5	21 26	.....	.. ..	....
14	ε Pegasi...........	11	40 8.50	+ 0.45	−49.60	29 26 10.48	42.025	+ 35.0	3.3	21 39	.....	.. ..	....
15	ε Piscium	11	58 38.33	+ 0.46	[−49.63]	31 30 9.88	41.416	+ 38.4	[2.7]	0 57	.....	.. ..	....
16	α Ursæ Minoris....	8	24 12.72	− 6.77	[−50.04]	310 6 7.60	42.143	−1 14.1	[2.0]	1 23	.....	.. ..	....
17	π Piscium	11	32 41.35	+ 0.44	[−49.71]	27 12 10.82	45.798	+ 32.3	[2.9]	1 31	.....	.. ..	....
	January 28, Hh.												
18	ζ Arietis	11	10 8.72	+ 0.32	−54.76	18 10 10.00	44.816	+ 19.5	2.4	3 9	.....	.. ..	....
19	Moon I, S	11	47 27.61	+ 0.34	**−54.72**	19 26 7.55	36.503	+ 21.1	**2.5**	3 46 33.23	+70.90	+19 24 9.3	....
20	A¹ Tauri............	11	59 46.90	+ 0.32	−54.71	17 2 9.82	44.878	+ 18.3	2.2	3 58	.....	.. ..	....
21	γ Tauri............	11	15 5.90	+ 0.36	−54.72	23 28 9.85	42.694	+ 25.9	2.6	4 14	.....	.. ..	....
22	ε Tauri............	11	23 46.58	+ 0.34	−54.71	19 54 9.58	41.845	+ 21.6	2.7	4 22	.....	.. ..	....
23	δ Ursæ Minoris S. P.	10	4 37.60	+ 5.09	[−55.34]	305 30 8.10	42.379	−1 23.5	[2.6]	6 3	.....	.. ..	....
24	ν Geminorum	11	24 2.29	+ 0.33	[−54.90]	18 34	......	....	....	6 23	.....	.. ..	....
25	ε Geminorum......	11	38 47.75	+ 0.29	[−54.78]	13 38 9.45	42.254	+ 14.6	[3.0]	6 37	.....	.. ..	....
26	51 H. Cephei	7	55 48.19	− 5.42	[−54.00]	311 40 8.05	44.587	−1 7.1	[2.3]	6 54	.....	.. ..	....
	January 29, B.												
27	α Tauri............	11	31 11.73	+ 0.34	−55.63	22 32 9.28	44.990	+ 25.0	2.7	4 30	.....	.. ..	....
28	τ Tauri............	11	37 15.65	+ 0.30	−55.58	16 4 8.42	47.181	+ 17.4	2.3	4 36	.....	.. ..	....
29	Moon I, S	11	48 22.45	+ 0.32	**−55.60**	18 10 9.30	45.513	+ 19.9	**2.4**	4 47 27.17	+70.99	+20 37 15.9	....
30	11 Orionis..........	11	59 52.14	+ 0.35	−55.57	23 34 9.30	47.006	+ 26.3	2.4	4 58	.....	.. ..	....
31	β Eridani..........	11	3 56.08	+ 0.50	−55.61	44 4 9.15	42.016	+ 58.2	2.1	5 3	.....	.. ..	....
32	Neptune C, C....	11	47 10.69	+ 0.30	**−55.55**	16 40 9.42	45.099	+ 18.1	**2.8**	5 46 15.44	.....	+22 10 40.5	....
33	δ Ursæ Minoris S. P.	8	4 36.22	+ 5.29	[−53.99]	305 30 7.45	42.263	−1 24.0	[2.2]	18 3	.....	.. ..	....
34	η Geminorum......	11	9 51.92	+ 0.30	−55.47	16 18 9.08	47.110	+ 17.7	2.7	6 8	.....	.. ..	....
35	μ Geminorum......	11	17 56.21	+ 0.30	−55.58	16 18 8.75	41.700	+ 17.7	2.5	6 17	.....	.. ..	....
36	ε Geminorum......	11	38 48.49	+ 0.28	−55.52	13 38 9.75	42.215	+ 14.7	3.4	6 37	.....	.. ..	....
37	θ Geminorum......	11	47 14.20	+ 0.20	−55.52	4 46 8.02	45.638	+ 5.1	4.0	6 46	.....	.. ..	....
	January 30, Br.												
38	γ Lyræ............	11	55 10.30	+ 0.36	+ 3.29	6 18 7.68	44.123	+ 6.7	1.9	18 55	.....	.. ..	....
39	ζ Aquilæ	11	0 47.76	+ 0.49	+ 3.24	25 8 9.28	43.644	+ 28.2	2.1	19 0	.....	.. ..	....
40	Venus I..........	6	21 55.13	+ 0.78	**+ 3.22**	60 58	......	....	....	19 21 59.13	+ 0.35	.. ..	....
41	Venus II........	5	21 55.90	+ 0.78	**+ 3.22**	... .	......	....	....	19 21 59.90	− 0.42	.. ..	....
42	γ Aquilæ	11	41 29.35	+ 0.52	+ 3.20	28 28 9.55	45.280	+ 32.6	1.5	19 41	.....	.. ..	....
43	α Aquilæ	11	45 53.40	+ 0.53	+ 3.16	30 14 9.48	45.000	+ 35.0	3.3	19 45	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
18 6 45	29.78	21.7	20.4
16 58	29.875	24.0	22.1
17 28	29.90	24.2	22.4
17 47	29.92	24.5	23.0
18 [illegible]	29.95	25.2	23.6
19 20 6	30.05	25.4	23.1
21 6	30.055	24.3	21.7
21 44	30.09	24.8	22.2
0 50	30.22	21.5	20.3
1 37	30.25	19.5	19.5
28 3 6	29.21	30.4	29.1
4 3	29.25	29.2	28.1
4 38	29.27	28.8	27.4
6 13	29.31	27.3	26.3
7 6	29.32	26.8	25.8
29 4 24	29.64	29.4	30.0
4 53	29.64	29.0	29.4
5 12	29.65	28.8	29.5
5 40	29.65	29.0	29.5
6 12	29.66	29.0	29.5
6 44	29.66	28.5	29.0
7 0	29.66	28.8	28.5
30 19 3	29.53	30.5	28.7
19 49	29.53	31.0	29.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 16, 26.	Bisections at c_1, c_2, c_3, c_4, c_5.
9, 10, 19, 29.	Z. D. thread A used.
9.	Bisections at I, II, III.
10.	Bisections at V, VI, VII.
11, 36, 37, 38.	Bisections at II, VI, VII.
13.	Bisections at I, II.
19, 29.	Bisections at II, III, IV, V, VI.
23.	Bisections at VI, V, IV, III, II.
33.	Bisections at c_5, c_4, c_3, c_2, c_1.
42.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+ 5.3	....	0.0	+ 5.3
9	+ 7.7	−16 18.4	...	−16 10.7
10	+ 7.7	+16 18.4	...	+16 26.1
19	+19 21.3	+15 59.1	...	+35 20.4
29	+18 21.8	+15 52.6	...	+34 14.4
32	+ 0.1	....	...	+ 0.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 31, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Tauri	11	20 1.21	+ 0.32	+ 3.01	10 20 7.62	43.120	+ 11.3	3.0	5 20	.....	.. ..	....
2	χ Aurigæ	11	26 16.40	+ 0.30	+ 2.98	6 44 8.00	44.324	+ 7.3	3.0	5 26	.....	.. ..	....
3	ε Orionis	11	31 10.01	+ 0.50	+ 3.02	40 6 9.60	45.530	+ 51.8	2.7	5 31	.....	.. ..	....
4	Neptune C. C	11	46 2.37	+ 0.36	+ **3.00**	16 40 8.60	45.048	+ 18.5	**3.1**	5 46 5.73	.....	+22 10 41.5	....
5	δ Ursæ Minoris S. P.	8	3 40.68	+ 3.88	[+ 3.30]	305 30 7.60	42.351	−1 25.8	[2.8]	18 3	.....	.. ..	....
6	ε Geminorum	11	37 49.91	+ 0.34	+ 2.99	13 38 8.78	42.192	+ 15.0	3.4	6 37	.....	.. ..	....
7	Moon I, N	11	46 59.49	+ 0.39	+ **2.99**	19 18 9.02	36.652	+ 21.6	**3.1**	6 47 2.87	+69.03	+19 32 4.3	....
8	Moon S	..	.. ..	....	....	19 48 8.52	42.255	+ 22.3	**3.1**	.. ..	.....	+19 0 18.0	....
9	51 H. Cephei	8	54 53.52	− 3.94	[− 1.10]	311 40 7.78	44.717	−1 8.8	[3.6]	6 54	.....	.. ..	....
10	δ Geminorum	11	14 12.10	+ 0.36	+ 2.98	16 40 8.50	48.000	+ 18.5	2.9	7 14	.....	.. ..	....
11	β Canis Minoris	11	21 46.10	+ 0.44	+ 2.99	30 22 9.88	42.702	+ 36.2	3.2	7 21	.....	.. ..	....
12	α^2 Geminorum	11	28 16.75	+ 0.30	+ 2.98	6 44 7.88	47.195	+ 7.4	3.6	7 28	.....	.. ..	....
13	β Geminorum	11	39 15.14	+ 0.32	+ 2.97	10 36 8.18	42.110	+ 11.6	2.7	7 39	.....	.. ..	....
	January 31, Hh.												
14	η Serpentis	11	16 8.10	+ 0.65	+ 2.66	41 46 9.55	43.651	+ 54.6	2.8	18 16	.....	.. ..	....
15	α Lyræ	11	33 31.65	+ 0.33	+ 2.63	0 10 7.12	43.851	+ 0.2	2.7	18 33	.....	.. ..	....
16	γ Lyræ	11	55 10.95	+ 0.39	+ 2.63	6 18 8.05	44.138	+ 6.8	1.7	18 55	.....	.. ..	....
17	Venus I, N	6	27 17.03	+ 0.79	+ **2.62**	60 52 10.00	34.145	+1 48.3	**2.4**	19 27 20.44	+ 0.34	−22 2 32.8	....
18	Venus II, S	5	27 17.76	+ 0.79	+ **2.62**	60 52 10.00	34.458	+1 48.3	**2.4**	19 27 21.17	− 0.39	−22 2 43.1	....
19	γ Aquilæ	10	41 29.99	+ 0.53	+ 2.57	28 28 10.50	45.359	+ 32.8	3.2	19 41	.....	.. ..	....
	February 1, Hh.												
20	Sun I, S	11	57 27.95	+ 0.70	+ **2.60**	56 14 9.15	37.047	+1 29.1	**1.9**	20 57 31.25	+68.22	−17 25 9.2	....
21	Sun II, N	11	59 44.39	+ 0.70	+ **2.60**	55 42 9.05	35.330	+1 27.3	**1.9**	20 59 47.69	−68.22	−16 52 38.6	....
22	Mercury C, C	11	31 32.98	+ 0.69	+ **2.60**	55 26 9.88	42.674	+1 26.4	**1.8**	21 31 36.27	+ 0.01	−16 35 42.4	....
23	α Pegasi	11	59 46.89	+ 0.41	+ 2.62	24 10 9.05	45.272	+ 26.9	1.9	22 59	.....	.. ..	....
24	α Andromedæ	11	3 13.71	+ 0.28	+ 2.63	10 18 7.10	44.952	+ 11.0	0.5	0 3	.....	.. ..	....
25	γ Pegasi	11	8 5.76	+ 0.39	+ 2.58	24 12 8.98	46.224	+ 27.0	[58.4]	0 8	.....	.. ..	....
26	ι Ceti	11	14 20.39	+ 0.59	+ 2.47	48 12 9.82	45.684	+1 7.2	0.8	0 14	.....	.. ..	....
	February 1, B.												
27	β Tauri	11	20 1.83	+ 0.26	+ 2.44	10 20 8.22	43.124	+ 11.2	1.7	5 20	.....	.. ..	....
28	χ Aurigæ	11	26 17.01	+ 0.22	+ 2.44	6 44 8.30	44.228	+ 7.3	1.6	5 26	.....	.. ..	....
29	Neptune C, C	4	45 58.32	+ 0.32	+ **2.44**	16 40 9.00	44.932	+ 18.3	**1.2**	5 46 1.08	.....	+22 10 42.3	....
30	δ Ursæ Minoris S. P.	8	3 37.20	+ 6.86	[+ 3.98]	305 30 7.00	42.261	−1 25.3	[1.2]	18 3	.....	.. ..	....
31	η Geminorum	11	8 54.00	+ 0.32	+ 2.42	16 18 8.12	47.059	+ 18.0	1.1	6 8	.....	.. ..	....
32	μ Geminorum	11	16 58.14	+ 0.32	+ 2.46	16 18 8.70	41.594	+ 17.9	0.6	6 17	.....	.. ..	....
33	51 H. Cephei	8	54 54.28	− 7.44	[+ 1.53]	311 40 7.65	44.615	−1 8.5	[2.1]	6 54	.....	.. ..	....
34	β Canis Minoris	11	21 46.79	+ 0.44	+ 2.29	30 22 9.18	42.706	+ 36.0	2.3	7 21	.....	.. ..	....
35	α^2 Geminorum	11	28 17.50	+ 0.22	+ 2.31	6 44 8.48	47.152	+ 7.3	2.6	7 28	.....	.. ..	....
36	Moon I	11	43 38.85	+ 0.38	+ **2.32**	22 10	......	....	....	7 43 41.55	+67.29	.. ..	....
37	φ Geminorum	11	47 26.64	+ 0.28	+ 2.34	11 50	......	....	....	7 47	.....	.. ..	....
38	ω^1 Cancri	11	54 56.70	+ 0.29	+ 2.38	13 12 9.18	42.235	+ 14.5	2.5	7 54	.....	.. ..	....
	February 1, Br.												
39	β Lyræ	11	46 22.87	+ 0.24	+ 1.96	5 36 8.72	45.327	+ 6.1	2.5	18 46	.....	.. ..	....
40	γ Lyræ	7	55 11.73	+ 0.25	+ 2.01	6 18 8.92	44.067	+ 6.8	1.7	18 55	.....	.. ..	....
41	ζ Aquilæ	8	0 49.25	+ 0.43	+ 1.85	25 8 10.78	43.528	+ 28.8	2.4	19 0	.....	.. ..	....
42	β Cygni	11	26 41.08	+ 0.30	+ 2.00	11 6 8.78	44.135	+ 12.0	2.4	19 26	.....	.. ..	....
43	Venus I, N	6	32 38.85	+ 0.77	+ **1.94**	60 40 9.55	44.015	+1 48.6	**2.6**	19 32 41.56	+ 0.31	−21 53 43.8	....
44	Venus II, S	5	32 39.52	+ 0.77	+ **1.94**	60 40 9.55	44.905	+1 48.6	**2.6**	19 32 42.23	− 0.36	−21 54 1.0	....
45	α Aquilæ	10	45 54.75	+ 0.48	+ 1.89	30 14 11.65	44.858	+ 35.5	3.0	19 45	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
31 5 15	29.595	20.8	19.0
5 35	29.60	20.5	19.0
6 40	29.62	20.5	18.8
7 19	29.63	19.7	18.0
7 43	29.63	18.9	17.1
18 13	29.64	22.4	21.7
18 49	29.65	25.3	24.6
19 35	29.66	28.9	28.0
1 20 59	29.63	33.0	34.0
21 43	29.65	34.4	34.0
22 57	29.67	33.9	32.8
0 19	29.70	33.3	31.1
5 14	29.82	26.2	26.2
5 52	29.825	25.8	25.5
7 2	29.83	24.0	23.7
7 30	29.84	23.8	23.0
7 58	29.85	23.0	23.2
18 49	30.06	27.8	26.4
19 5	30.055	29.0	27.7
19 48	30.055	32.2	30.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.	
1, 3, 6, 10, 18, 21, 24.	Bisections at VI, VII.
4, 12, 40, 41.	Bisections at II, V^1, VII.
5, 30.	Bisections at c_5, c_4, c_3, c_2, c_1.
7, 8, 17, 18, 20, 21, 43, 44.	Z. D. thread A used.
7, 20.	Bisections at I, II, III.
8.	Bisections at V, VI, VII.
9, 33.	Bisections at c_1, c_2, c_3, c_4, c_5.
17.	Bisections at I, II.
39.	Bisections at I, VI, VII.
43.	Bisections at I, VII.
44.	Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 0.1	....	...	+ 0.1
7	+18 47.9	−15 38.2	0.0	+3 9.7
8	+19 17.8	+15 38.2	..	+34 56.0
17	+ 5.1	− 5.2	...	− 0.1
18	+ 5.1	+ 5.2	− 0.1	+ 10.2
20	+ 7.5	+16 15.3	...	+16 22.8
21	+ 7.4	−16 15.2	...	−16 7.8
22	+ 5.4	....	0.0	+ 5.4
29	+ 0.1	....	...	+ 0.1
43	+ 5.0	− 8.6	...	− 3.6
44	+ 5.0	+ 8.6	0.0	+ 13.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	February 2, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, S	11	1 33.04	+ 0.72	+ **1.94**	55 54 8.85	45.875	+1 29.7	**2.6**	21 1 35.70	+68.15	−17 7 58.2	....
2	Sun II, N	11	3 49.33	+ 0.72	+ **1.94**	55 22 9.15	44.090	+1 27.9	**2.6**	21 3 51.99	−68.14	−16 35 26.2	....
3	Mercury C, C	11	38 29.63	+ 0.71	+ **1.94**	54 46 9.78	47.484	+1 25.7	**2.6**	21 38 32.28	+ 0.01	−15 57 13.0	....
4	π^2 Pegasi	11	5 32.98	+ 0.25	+ 2.00	6 10 8.78	42.592	+ 6.6	3.1	22 5	.....	.. ..	....
5	ζ Pegasi	8	36 29.24	+ 0.46	+ 1.88	28 32 11.32	43.312	+ 32.9	3.0	22 36	.....	.. ..	....
	February 3, Hh.												
6	γ Lyræ	7	55 12.95	+ 0.20	+ 0.88	6 18 8.02	44.222	+ 6.6	2.6	18 55	.....	.. ..	....
7	ζ Aquilæ	11	0 50.42	+ 0.36	+ 0.79	25 8 9.00	43.716	+ 27.6	1.9	19 0	.....	.. ..	....
8	β Cygni	10	26 42.39	+ 0.24	+ 0.79	11 6	......	....	....	19 26	.....	.. ..	....
9	α Aquilæ	11	45 56.02	+ 0.40	+ 0.73	30 14 10.08	45.021	+ 34.1	2.9	19 45	.....	.. ..	....
	February 4, Hh.												
10	Sun I, S	11	9 40.43	+ 0.61	+ **0.74**	55 22 8.22	36.227	+1 23.6	**2.4**	21 9 41.78	+67.87	−16 32 46.6	....
11	Sun II, N	11	11 56.17	+ 0.61	+ **0.74**	54 50 8.60	34.435	+1 21.9	**2.4**	21 11 57.52	−67.87	−16 0 14.7	....
12	γ Pegasi	11	8 7.71	+ 0.35	+ 0.65	24 12 8.25	46.412	+ 26.4	2.2	0 8	.....	.. ..	....
13	α Hydræ	11	22 45.03	+ 0.55	+ 0.37	47 4 9.08	44.849	+1 4.5	2.9	9 22	.....	.. ..	....
14	ο Leonis	11	35 53.88	+ 0.40	+ 0.41	28 30 9.58	45.495	+ 32.6	2.9	9 35	.....	.. ..	....
15	π Leonis	11	55 0.70	+ 0.42	+ 0.40	30 20 9.52	43.475	+ 35.2	1.6	9 55	.....	.. ..	....
16	Moon II, S	11	19 43.77	+ 0.46	+ **0.36**	34 26 10.22	34.992	+ 41.3	**2.4**	10 19 44.59	−62.57	+ 4 24 15.4	....
17	ρ Leonis	11	27 37.67	+ 0.41	+ 0.37	29 1 58.55	44.748	+ 33.4	1.5	10 27	.....	.. ..	....
18	Mars I, C	6	49 18.50	+ 0.39	+ **0.34**	26 42 9.25	45.818	+ 30.4	**2.4**	10 49 19.23	+ 0.61	+12 8 14.3	....
19	Mars II	5	49 19.74	+ 0.39	+ **0.34**	... .	......	....	....	10 49 20.47	− 0.63	.. ..	....
20	τ Leonis	11	22 52.35	+ 0.46	+ 0.29	35 26 9.48	46.448	+ 43.0	3.0	11 22	.....	.. ..	....
21	6 B. Ursæ Minoris	11	14 44.71	− 9.36	[+ 4.85]	310 38 7.62	43.991	−1 10.1	[3.0]	12 14	.....	.. ..	....
22	γ Virginis (*mean*)	11	36 39.78	+ 0.49	[+ 0.41]	39 44 10.52	37.191	+ 50.4	2.4	12 36	.....	.. ..	....
23	α Ursæ Minoris S. P.	11	22 45.44	+14.36	[− 0.26]	307 40 7.20	43.476	−1 18.0	[2.8]	1 22	.....	.. ..	....
	February 4, Br.												
24	α Lyræ	11	33 34.26	+ 0.16	+ 0.29	0 10 7.40	43.885	+ 0.2	2.6	18 33	.....	.. ..	....
25	β Lyræ	11	46 24.71	+ 0.21	+ 0.21	5 36 7.65	45.439	+ 6.0	2.2	18 46	.....	.. ..	....
26	γ Lyræ	11	55 13.58	+ 0.22	+ 0.25	6 18 7.92	44.220	+ 6.8	2.2	18 55	.....	.. ..	....
27	β Cygni	10	26 43.04	+ 0.26	+ 0.14	11 6 8.52	44.155	+ 11.9	2.4	19 26	.....	.. ..	....
28	Venus I, S	6	48 39.12	+ 0.64	+ **0.20**	60 10 9.50	43.742	+1 45.6	**2.4**	19 48 39.96	+ 0.39	−21 23 35.7	....
29	Venus II, N	5	48 39.96	+ 0.64	+ **0.20**	60 10 9.50	43.065	+1 45.6	**2.4**	19 48 40.80	− 0.45	−21 23 22.9	....
	February 5, Br.												
30	Sun I, N	11	13 42.82	+ 0.59	+ **0.15**	54 30 9.15	40.653	+1 24.9	**2.4**	21 13 43.56	+67.86	−15 42 13.7	....
31	Sun II, S	11	15 58.54	+ 0.59	+ **0.15**	55 2 8.40	41.992	+1 26.6	**2.4**	21 15 59.28	−67.86	−16 14 44.1	....
32	Mercury C, C	11	58 59.84	+ 0.57	+ **0.13**	52 44 8.65	43.899	+1 19.4	**2.4**	21 59 0.54	+ 0.01	−13 53 57.1	....
33	α Pegasi	11	59 49.45	+ 0.36	+ 0.09	24 10	......	....	....	22 59	.....	.. ..	....
34	α Andromedæ	11	3 16.20	+ 0.25	+ 0.13	10 18 8.52	45.078	+ 11.1	1.9	0 3	.....	.. ..	....
35	γ Pegasi	11	8 8.29	+ 0.36	+ 0.05	24 12 10.40	46.382	+ 27.3	2.7	0 8	.....	.. ..	....
36	β Andromedæ	11	4 11.85	+ 0.20	0.00	3 46 8.42	41.900	+ 4.0	2.6	1 4	.....	.. ..	....
37	γ^1 Leonis	11	14 33.52	+ 0.39	− 0.38	18 30 8.35	46.276	+ 20.8	1.8	10 14	.....	.. ..	....
38	ρ Leonis	11	27 38.39	+ 0.47	− 0.40	29 2 9.68	44.149	+ 34.4	2.0	10 27	.....	.. ..	....
39	l Leonis	11	44 5.61	+ 0.46	− 0.33	27 46 10.55	46.805	+ 32.7	2.2	10 44	.....	.. ..	....
40	Moon II, S	11	7 2.42	+ 0.55	− **0.36**	38 58 10.12	43.742	+ 50.3	**2.1**	11 7 2.61	−61.79	− 0 10 41.6	....
41	π Virginis	11	55 50.03	+ 0.49	− 0.34	31 40 9.20	47.044	+ 38.4	2.3	11 55	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
2 21 3	30.035	33.8	32.4
21 42	30.03	34.0	33.2
22 9	30.01	34.5	33.6
22 43	30.01	35.8	33.8
3 18 50	29.38	36.2	35.6
19 33	29.40	39.4	38.9
4 21 11	29.395	44.1	45.0
0 17	29.47	40.7	39.0
9 26	29.63	31.7	30.8
10 15	29.64	31.8	29.9
10 54	29.65	29.8	29.0
11 29	29.67	29.4	28.6
12 24	29.69	28.9	27.8
13 38	29.70	28.4	28.0
18 35	29.78	28.6	27.0
18 59	29.78	30.0	27.8
19 31	29.78	31.0	28.8
19 53	29.79	31.8	29.0
5 21 16	29.79	30.4	29.0
22 4	29.765	31.5	29.2
23 55	29.75	30.8	28.6
0 16	29.77	30.6	28.2
1 7	29.77	29.0	27.0
10 10	29.83	20.3	19.1
11 13	29.84	20.1	18.7
12 4	29.84	19.8	18.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 2, 10, 11, 16, 22, 28, 29, 30, 31, 40.	Z. D. thread A used.
1, 10, 30.	Bisections at I, II, III.
2, 11, 31.	Bisections at V, VI, VII.
5, 27.	Bisections at II, VI, VII.
12.	Bisections at VI, VII.
16, 40.	Bisections at II, III, IV, V, VI.
21.	Bisections at c_1, c_2, c_3, c_4, c_5.
23.	Bisections at c_5, c_4, c_3, c_2, c_1.
28.	Bisections at I, VII.
29.	Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 7.4	+16 16.0	...	+16 23.4
2	+ 7.4	−16 16.0	...	−16 8.6
3	+ 5.5	....	0.0	+ 5.5
10	+ 7.4	+16 15.9	...	+16 23.3
11	+ 7.3	−16 15.9	...	−16 8.6
16	+31 5.9	+15 4.6	...	+46 10.5
18	+ 5.5	....	0.0	+ 5.5
28	+ 4.9	+ 6.4	0.0	+ 11.3
29	+ 4.9	− 6.4	...	− 1.5
30	+ 7.3	−16 15.2	...	−16 7.9
31	+ 7.3	+16 15.2	...	+16 22.5
32	+ 5.5	....	0.0	+ 5.5
40	+34 22.0	+14 57.6	...	+49 19.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	6 B. Ursæ Minoris	8	14 50.04	− 9.14	[0.00]	310 38 8.25	44.025	−1 12.0	[2.6]	12 14	.....	.. ..	....
2	θ Virginis	11	4 51.15	+ 0 58	− 0.38	43 50 9.30	47.608	+ 59.7	2.7	13 4	.....	.. ..	....
3	α Ursæ Minoris S. P.	8	22 45.44	+14.21	[− 1.15]	307 40 7.88	43.495	−1 20.1	[1.9]	1 22	.....	.. ..	....
4	*m* Virginis	11	36 26.54	+ 0.61	− 0.43	47 2 9.95	45.774	+1 6.7	2.6	13 36	.....	.. ..	....
5	η Bootis	11	49 59.70	+ 0.40	− 0.33	19 58 8.92	42.770	+ 22.6	2.7	13 49	.....	.. ..	....
	February 5, Hh.												
6	α Lyræ	11	33 34.89	+ 0.26	− 0.41	0 10 7.30	43.896	+ 0.2	2.5	18 33	.....	.. ..	....
7	γ Lyræ	11	55 14.25	+ 0.33	− 0.51	6 18 8.42	44.234	+ 6.9	2.8	18 55	.....	.. ..	....
8	ζ Aquilæ	11	0 51.63	+ 0.49	− 0.51	25 8 9.72	43.668	+ 28.9	2.7	19 0	.....	.. ..	....
9	α Aquilæ	11	45 57.18	+ 0.55	− 0.55	30 14 10.10	44.928	+ 35.7	2.5	19 45	.....	.. ..	....
10	Venus II, S.	11	53 58.23	+ 0.82	− **0.49**	60 2 7.02	33.196	+1 46.0	**2.5**	19 53 58.56	− 0.40	−21 12 11.4	....
	February 6, Hh.												
11	Sun I, N	11	17 44.39	+ 0.75	− **0.47**	54 14 8.50	33.447	+1 24.6	**2.5**	21 17 44.67	+67.69	−15 23 54.5	....
12	Sun II, S	11	19 59.77	+ 0.75	− **0.47**	54 46 8.85	34.800	+1 26.3	**2.5**	21 20 0.05	−67.69	−15 56 26.3	....
13	Mercury C, C	11	5 41.23	+ 0.71	− **0.47**	52 0 9.08	45.635	+1 17.8	**2.5**	22 5 41.47	+ 0.02	−13 10 29.1	....
14	α Pegasi	11	59 49.95	+ 0.43	− 0.48	24 10 10.20	45.269	+ 27.2	2.6	22 59	.....	.. ..	....
15	α Andromedæ	11	3 16.67	+ 0.28	− 0.38	10 18 8.65	45.049	+ 11.0	1.3	0 3	.....	.. ..	....
16	γ Pegasi	11	8 8.75	+ 0.41	− 0.47	24 12 9.92	46.420	+ 27.2	2.8	0 8	.....	.. ..	....
17	*l* Leonis	11	44 6.14	+ 0.48	− 0.87	27 46 10.00	46.849	+ 32.8	2.5	10 44	.....	.. ..	....
18	Mars I, C	6	47 5.87	+ 0.47	− **0.90**	26 26 9.48	46.256	+ 31.0	**2.3**	10 47 5.44	+ 0.50	+12 24 4.9	....
19	Mars II	5	47 6.88	+ 0.47	− **0.90**	... .	......	....	....	10 47 6.45	− 0.51	.. ..	....
20	p^3 Leonis	11	1 54.00	+ 0.56	− 0.88	36 20 10.10	47.861	+ 45.9	2.9	11 1	.....	.. ..	....
21	δ Crateris	11	14 26.14	+ 0.71	− 0.95	53 4 8.70	46.245	+1 22.9	1.7	11 14	.....	.. ..	....
22	τ Leonis	11	22 53.52	+ 0.55	− 0.94	35 26 9.85	46.315	+ 44.4	2.0	11 22	.....	.. ..	....
23	Moon II, S	11	53 29.69	+ 0.63	− **0.94**	43 32 9.92	36.087	+ 59.3	**2.3**	11 53 29.38	−61.51	− 4 42 23.4	....
24	η Virginis	11	14 53.01	+ 0.58	− 0.96	38 58 9.22	43.120	+ 50.4	2.2	12 14	.....	.. ..	....
	February 6, Hd.												
25	β Lyræ	11	46 26.04	+ 0.30	− 1.16	5 36 7.68	45.512	+ 6.2	3.3	18 46	.....	.. ..	....
26	ζ Aquilæ	11	0 52.49	+ 0.49	− 1.35	25 8 9.58	43.732	+ 29.1	4.4	19 0	.....	.. ..	....
27	β Cygni	11	26 44.36	+ 0.35	− 1.24	11 6 8.35	44.295	+ 12.2	4.1	19 26	.....	.. ..	....
28	γ Aquilæ	11	41 33.94	+ 0.51	− 1.27	28 28 9.75	45.414	+ 33.6	3.4	19 41	.....	.. ..	....
29	α Aquilæ	11	45 58.01	+ 0.53	− 1.34	30 14 10.32	44.956	+ 36.0	3.4	19 45	.....	.. ..	....
30	Venus I, C	6	59 15.43	+ 0.82	− **1.30**	59 50 9.42	42.815	+1 45.9	**3.8**	19 59 14.95	+ 0.29	−21 0 2.1	....
31	Venus II	5	59 16.06	+ 0.82	− **1.30**	... .	......	....	....	19 59 15.58	− 0.34	.. ..	....
	February 7, Hd.												
32	Sun I, S	11	21 45.15	+ 0.74	− **1.35**	54 26 8.30	39.442	+1 25.7	**3.8**	21 21 44.54	+67.67	−15 37 49.0	....
33	Sun II, N	11	24 0.49	+ 0.74	− **1.35**	53 54 8.32	37.845	+1 24.1	**3.8**	21 23 59.88	−67.67	−15 5 20.7	....
34	ε Pegasi	11	39 20.36	+ 0.51	− 1.47	29 26 10.10	42.217	+ 34.6	4.5	21 39	.....	.. ..	....
35	Mercury C, C	11	12 17.36	+ 0.71	− **1.39**	51 16 9.00	44.274	+1 16.2	**3.8**	22 12 16.68	+ 0.02	−12 26 0.0	....
36	α Pegasi	11	59 50.91	+ 0.46	− 1.47	24 10 9.70	45.406	+ 27.4	4.8	22 59	.....	.. ..	....
37	α Andromedæ	11	3 17.59	+ 0.34	− 1.37	10 18 8.05	45.175	+ 11.1	3.0	0 3	.....	.. ..	....
38	γ Pegasi	11	8 9.62	+ 0.46	− 1.39	24 12 9.82	46.439	+ 27.4	3.1	0 8	.....	.. ..	....
	February 9, Br.												
39	*m* Virginis	9	36 29.63	+ 0.66	− 3.46	47 2 9.52	45.795	+1 5.4	2.4	13 36	.....	.. ..	....
40	η Bootis	11	50 2.88	+ 0.44	− 3.43	19 58 9.38	42.762	+ 22.2	2.2	13 49	.....	.. ..	....
41	κ Virginis	11	7 41.39	+ 0.67	− 3.44	48 38 9.88	47.336	+1 9.3	2.0	14 7	.....	.. ..	....
42	Moon II, S	11	15 5.25	+ 0.75	− **3.50**	55 10 9.18	44.281	+1 27.7	**2.1**	14 15 2.50	−63.57	−16 23 28.4	....
43	α^2 Libræ	11	45 28.55	+ 0.72	− 3.60	54 28 9.80	43.340	+1 25.6	2.3	14 45	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
5	12	20	29.84	19.1	17.9
	13	54	29.84	18.8	17.8
	18	30	29.84	22.0	21.5
	19	7	29.86	24.2	22.9
	19	33	29.87	25.3	24.2
	20	24	29.86	26.9	26.0
6	21	20	29.84	27.8	26.3
	22	11	29.82	28.8	28.0
	23	3	29.80	30.8	29.6
	0	0	29.80	30.9	30.2
	10	40	29.86	18.1	17.2
	11	33	29.86	17.9	16.6
	12	18	29.86	17.6	16.7
	18	43	29.91	20.1	19.1
	19	32	29.915	22.6	21.0
	20	6	29.915	25.0	22.5
7	21	24	29.88	25.8	24.5
	22	17	29.845	26.8	25.4
	23	5	29.84	28.0	26.4
	0	17	29.83	28.1	27.0
	13	39	29.79	26.9	26.0
	14	16	29.80	26.5	25.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.	
1.	Bisections at c_1, c_2, c_3, c_4, c_5.
3.	Bisections at c_5, c_4, c_3, c_2, c_1.
10, 11, 12, 23, 32, 33, 42.	Z. D. thread A used.
11, 32.	Bisections at I, II, III.
12, 33.	Bisections at V, VI, VII.
23, 42.	Bisections at II, III, IV, V, VI.
26.	Bisections at I, VI, VII.
34.	Bisections at II, VI, VII.
39.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
10	+ 4.9	+ 5.5	0.0	+ 10.4
11	+ 7.3	−16 15.9	...	−16 8.6
12	+ 7.3	+16 15.9	...	+16 23.2
13	+ 5.5	....	+ 0.1	+ 5.6
18	+ 5.5	....	0.0	+ 5.5
23	+37 23.2	+14 52.0	...	+52 15.2
30	+ 4.9	....	0.0	+ 4.9
32	+ 7.3	+16 14.1	...	+16 21.4
33	+ 7.2	−16 14.1	...	−16 6.9
35	+ 5.5	....	+ 0.1	+ 5.6
42	+44 27.5	+14 49.0	...	+59 16.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ Scorpii	11	58 21.00	+ 0.82	− 3.65	63 42 9.42	46.625	+2 3.7	1.9	14 58	.....	.. ..	....
2	β Libræ	11	11 45.05	+ 0.66	− 3.56	47 52 9.60	41.934	+1 7.7	1.8	15 11	.....	.. ..	....
	February 10, Hd.												
3	α² Libræ	11	45 29.22	+ 0.80	− 4.32	54 28 9.18	43.324	+1 26.4	2.0	14 45	.....	.. ..	....
4	γ Scorpii	11	58 21.74	+ 0.90	− 4.44	63 42 8.88	46.630	+2 4.8	2.4	14 58.....	.....	.. ..	....
5	Moon II, S	11	5 8.12	+ 0.85	− **4.33**	57 58 9.00	39.265	+1 38.8	**2.3**	15 5 4.64	−64.91	−19 10 2.9	....
6	β Libræ	11	11 45.77	+ 0.73	− 4.32	47 52 8.82	41.976	+1 8.3	2.3	15 11	.....	.. ..	....
7	α Serpentis	11	39 28.28	+ 0.58	− 4.26	32 6 9.48	45.935	+ 38.9	2.4	15 39	.....	.. ..	....
	February 11, Br.												
8	β Lyræ	11	46 29.79	+ 0.23	− 4.72	5 36 8.00	45.486	+ 6.0	1.9	18 46	.....	.. ..	....
9	γ Lyræ	11	55 18.75	+ 0.24	− 4.78	6 18 8.22	44.250	+ 6.7	1.4	18 55	.....	.. ..	....
10	β Cygni	11	26 48.10	+ 0.28	− 4.81	11 6 8.78	44.216	+ 11.9	1.7	19 26	.....	.. ..	....
11	γ Aquilæ	11	41 37.67	+ 0.43	− 4.83	28 28	......	....	....	19 41	.....	.. ..	....
12	Venus I, N	6	25 30.20	+ 0.69	− **4.79**	58 38 9.18	40.478	+1 38.6	**1.8**	20 25 26.10	+ 0.32	−19 50 26.4	....
13	Venus II, S	5	25 30.87	+ 0.69	− **4.79**	58 38 9.18	41.065	+1 38.6	**1.8**	20 25 26.77	− 0.35	−19 50 37.8	....
	February 12, Br.												
14	Sun I, S	11	41 38.39	+ 0.62	− **4.80**	52 48 8.38	43.898	+1 19.3	**1.8**	21 41 34.21	+67.08	−14 1 10.1	....
15	Sun II, N	11	43 52.54	+ 0.62	− **4.80**	52 16 7.95	42.202	+1 17.8	**1.8**	21 43 48.36	−67.07	−13 28 39.6	....
16	Mercury C, C	11	43 16.39	+ 0.57	− **4.81**	47 24 10.12	43.938	+1 5.1	**1.8**	22 43 12.15	+ 0.04	− 8 33 45.7	....
17	α Andromedæ	11	3 21.05	+ 0.26	− 4.80	10 18 9.10	45.042	+ 10.9	1.2	0 3	.....	.. ..	....
18	γ Pegasi	11	8 13.15	+ 0.38	− 4.88	24 12 10.02	46.428	+ 26.9	2.1	0 8	.....	.. ..	....
19	μ Andromedæ	11	51 20.62	+ 0.18	− 4.77	0 54 7.80	42.066	+ 1.0	2.0	0 51	.....	.. ..	....
20	β Andromedæ	11	4 16.58	+ 0.20	− 4.83	3 46 7.68	42.003	+ 4.0	2.3	1 4	.....	.. ..	....
21	θ Aurigæ	11	53 5.75	+ 0.17	− 4.93	1 38 7.78	47.040	+ 1.8	[3.1]	5 53	.....	.. ..	....
22	δ Ursæ Minoris S. P.	8	3 49.96	+ 5.93	[− 4.97]	305 30 7.68	42.284	−1 26.2	[4.1]	18 3	.....	.. ..	....
23	μ Geminorum	11	17 5.49	+ 0.31	− 4.97	16 18 8.12	41.698	+ 18.1	[2.3]	6 17	.....	.. ..	....
24	θ Geminorum	11	46 23.66	+ 0.20	− 5.07	4 46 7.38	45.592	+ 5.2	[2.9]	6 46	.....	.. ..	....
25	51 H. Cephei	11	54 58.55	− 6.39	[− 6.27]	211 40 8.00	44.568	−1 9.2	[3.9]	6 54	.....	.. ..	....
26	δ Geminorum	11	14 20.10	+ 0.31	− 5.02	16 40 8.68	48.062	+ 18.6	[2.8]	7 14	.....	.. ..	....
27	β Herculis	11	26 3.49	+ 0.40	− 5.37	17 8 8.90	46.804	+ 19.2	1.8	16 25	.....	.. ..	....
28	ζ Ophiuchi	11	31 48.22	+ 0.69	− 5.42	49 12 9.50	44.493	+1 12.0	1.7	16 31	.....	.. ..	....
29	Moon II, S	11	51 38.41	+ 0.83	− **5.45**	60 54 9.68	44.377	+1 51.8	**2.2**	16 51 33.79	−67.63	−22 7 54.7	....
30	η Ophiuchi	11	4 47.77	+ 0.74	− 5.58	54 26 9.40	44.069	+1 26.8	3.2	17 4	.....	.. ..	....
31	α¹ Herculis	11	10 13.55	+ 0.46	− 5.42	24 20 9.15	46.521	+ 28.2	2.0	17 10	.....	.. ..	....
	February 13, Hd.												
32	ζ Aquilæ	11	0 57.66	+ 0.51	− 6.39	25 8 10.20	43.645	+ 28.6	3.1	19 0	.....	.. ..	....
33	β Cygni	11	26 49.62	+ 0.38	− 6.39	11 6 7.85	44.423	+ 12.0	3.7	19 26	.....	.. ..	....
34	γ Aquilæ	11	41 39.35	+ 0.54	− 6.58	28 28 9.95	45.575	+ 32.9	3.2	19 41	.....	.. ..	....
35	α Aquilæ	11	46 3.28	+ 0.56	− 6.52	30 14 9.82	44.962	+ 35.4	3.4	19 45	.....	.. ..	....
36	Venus I, C	6	35 53.24	+ 0.84	− **6.52**	58 8 8.75	44.914	+1 37.0	**3.1**	20 35 47.56	+ 0.33	−19 18 33.5	....
37	Venus II	5	35 53.94	+ 0.84	− **6.52**	... .	......	....	....	20 35 48.26	− 0.37	.. ..	....
	February 14, Hd.												
38	Sun I, N	11	49 30.52	+ 0.77	− **6.58**	51 34 8.62	47.680	+1 15.6	**2.7**	21 49 24.71	+66.81	−12 48 18.3	....
39	Sun II, S	11	51 44.15	+ 0.77	− **6.58**	52 6 8.95	48.847	+1 17.1	**2.7**	21 51 38.34	−66.82	−13 20 46.4	....
40	Mercury C, C	11	54 16.95	+ 0.71	− **6.63**	45 50 9.52	45.896	+1 1.4	**2.4**	22 54 11.03	+ 0.05	− 7 0 18.3	....
41	α Andromedæ	11	3 22.78	+ 0.37	− 6.65	10 18 8.15	45.152	+ 10.8	1.2	0 3	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
9 15 16	29.83	24.9	23.8
10 14 50	30.05	23.8	23.7
15 43	30.06	23.8	23.2
11 18 42	29.82	32.5	31.6
19 31	29.83	33.8	31.7
20 29	29.81	34.5	32.6
12 21 44	29.77	34.2	32.3
22 48	29.74	35.1	33.8
23 56	29.715	36.6	34.7
0 13	29.71	36.5	34.2
1 10	29.71	34.9	33.1
5 48	29.825	21.8	20.0
6 21	29.815	21.0	19.6
7 5	29.80	20.5	19.0
7 19	29.80	20.5	19.0
16 24	29.775	17.5	16.7
16 54	29.785	17.2	16.6
17 14	29.78	17.8	17.0
13 19 4	29.48	22.1	21.8
19 33	29.48	23.9	23.1
19 52	29.485	24.6	23.5
20 40	29.49	26.6	26.1
14 21 52	29.46	29.0	28.9
23 1	29.44	30.9	30.7
0 1	29.42	32.7	32.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 12, 13, 14, 15, 29, 38, 39.	Z. D. thread A used.
5, 29.	Bisections at II, III, IV, V, VI.
12.	Bisections at I, VII.
13.	Bisections at II, VI.
14, 38.	Bisections at I, II, III.
15, 39.	Bisections at V, VI, VII.
17, 21.	Bisections at II, VI, VII.
20, 28.	Bisections at I, II, VII.
22.	Bisections at c_5, c_4, c_3, c_2, c_1.
25.	Bisections at c_1, c_2, c_3, c_4, c_5.
32, 35.	Bisections at VI, VII.
33.	Bisections at I, II, VI.
34.	Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+46 8.6	+14 53.6	...	+61 2.2
12	+ 4.8	− 5.7	...	− 0.9
13	+ 4.8	+ 5.7	0.0	+ 10.5
14	+ 7.1	+16 15.2	...	+16 22.3
15	+ 7.1	−16 15.3	...	−16 8.2
16	+ 5.7	....	+ 0.2	+ 5.9
29	+48 32.5	+15 11.6	...	+63 44.1
36	+ 4.7	....	0.0	+ 4.7
38	+ 7.0	−16 14.0	...	−16 7.0
39	+ 7.1	+16 14.0	...	+16 21.1
40	+ 5.9	....	+ 0.3	+ 6.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ Pegasi	11	8 14.83	+ 0.51	− 6.71	24 12 9.65	46.471	+ 26.7	2.2	0 8	.....	.. ..	....
2	β Ceti	11	38 43.53	+ 0.83	− 6.83	57 22 8.70	42.891	+1 32.4	2.7	0 38	.....	.. ..	....
3	β Andromedæ	11	4 18.27	+ 0.30	− 6.65	3 46 7.68	41.982	+ 4.0	2.0	1 4	.....	.. ..	....
4	δ Ursæ Minoris S.P.	8	3 50.72	+ 6.45	[− 5.76]	305 30 7.00	42.005	−1 23.4	[1.4]	18 3	.....	.. ..	....
5	η Geminorum......	11	9 3.08	+ 0.45	[− 6.92]	16 18 8.90	47.008	+ 17.6	[0.6]	6 8	.....	.. ..	....
6	μ Geminorum......	11	17 7.30	+ 0.45	[− 6.94]	16 18 8.58	41.631	+ 17.5	[0.9]	6 17	.....	.. ..	....
7	51 H.Cephei	8	54 59.32	− 6.77	[− 7.07]	311 40 7.58	44.293	−1 7.0	[0.9]	6 54	.....	.. ..	....
	February 15, Br.												
8	β Cygni...........	11	26 51.67	+ 0.31	− 8.33	11 6 7.95	44.306	+ 11.7	1.6	19 26	.....	.. ..	....
9	α Aquilæ	11	46 5.31	+ 0.48	− 8.43	30 14 10.02	45.019	+ 34.5	1.7	19 45	.....	.. ..	....
10	γ Sagittæ	11	54 29.34	+ 0.39	− 8.46	19 38 9.80	42.682	+ 21.1	1.5	19 54	.....	.. ..	....
11	ε Cygni...........	11	42 20.22	+ 0.25	− 8.42	5 16 7.80	41.714	+ 5.4	1.6	20 42	.....	.. ..	....
12	Venus I, S.......	6	46 12.38	+ 0.72	− **8.44**	57 32 8.78	41.028	+1 31.8	**2.0**	20 46 4.66	+ 0.38	−18 44 29.6	....
13	Venus II, N.	5	46 13.18	+ 0.72	− **8.44**	57 32 8.78	40.415	+1 31.8	**2.0**	20 46 5.46	− 0.42	−18 44 18.0	
	February 16, Br.												....
14	Sun I, S	11	57 20.07	+ 0.64	− **8.49**	51 26 9.90	45.677	+1 12.4	**2.7**	21 57 12.22	+66.68	−12 39 38.0	....
15	Sun II, N........	11	59 33.44	+ 0.64	− **8.49**	50 54 9.80	44.070	+1 11.0	**2.7**	21 59 25.59	−66.69	−12 7 9.6	
16	α Pegasi...........	11	59 58.01	+ 0.41	− 8.53	24 10 9.58	45.469	+ 25.7	3.1	22 59	.....	.. ..	
17	Mercury I, C.....	11	4 8.37	+ 0.57	− **8.53**	44 20 9.25	45.361	+ 55.9	**3.3**	23 4 0.41	+ 0.21	−5 30 1.4	....
18	α Andromedæ.....	11	3 24.73	+ 0.29	− 8.54	10 18 8.32	45.314	+ 10.4	3.8	0 3	.....	.. ..	....
19	γ Pegasi	11	8 16.81	+ 0.40	− 8.59	24 12 9.85	46.634	+ 25.5	4.0	0 8	.....	.. ..	....
	February 18, Br.												....
20	ζ Aquilæ	11	1 1.85	+ 0.32	−10.28	25 8 9.48	43.831	+ 27.6	2.4	19 0	.....	.. ..	....
21	β Cygni.	8	26 53.72	+ 0.22	−10.22	11 6 7.98	44.350	+ 11.6	1.9	19 26	.....	.. ..	....
22	α Aquilæ..........	8	46 7.41	+ 0.34	−10.33	30 14 8.98	45.132	+ 34.2	2.3	19 45	.....	.. ..	....
23	ε Cygni	11	42 22.15	+ 0.14	−10.20	5 16 8.00	41.800	+ 5.4	2.8	20 42	.....	.. ..	....
	February 19, Br.												
24	Sun I, N.........	11	8 58.01	+ 0.43	−**10.26**	49 52 9.70	40.472	+1 8.9	**2.7**	22 8 48.18	+66.36	−11 3 54.5	....
25	Sun II, S........	11	11 10.74	+ 0.43	−**10.26**	50 24 9.38	41.850	+1 10.2	**2.7**	22 11 0.91	−66.37	−11 36 25.8	....
26	α Pegasi	7	59 59.93	+ 0.24	−10.28	24 10 10.20	45.454	+ 26.1	3.4	22 59	.....	.. . .	
27	Mercury C, C....	11	16 7.71	+ 0.36	−**10.26**	42 18 9.30	41.736	+ 52.6	**2.7**	23 15 57.81	+ 0.09	− 3 26 49.3	
28	α Andromedæ	11	3 26.61	+ 0.13	−10.28	10 18 8.30	45.265	+ 10.5	2.5	0 3	.....	.. ..	....
29	μ Andromedæ.	5	51 26.08	+ 0.06	−10.21	0 54 6.52	42.355	+ 1.0	3.2	0 51	.....	.. ..	....
30	β Andromedæ	11	4 21.95	+ 0.07	−10.17	3 46 6.88	42.131	+ 3.8	3.1	1 4	.....	.. ..	....
31	β Arietis	11	49 21.19	+ 0.18	−10.34	18 32 8.82	42.360	+ 19.4	2.5	1 49	.....	.. ..	....
32	θ Aurigæ..........	11	53 11.12	+ 0.08	[−10.33]	1 38 7.48	47.052	+ 1.8	[2.3]	5 53	.....	.. ..	....
33	δ Ursæ Minoris S.P..	8	4 0.05	+ 4.50	[−11.68]	305 30 7.70	42.005	−1 22.2	[4.3]	18 3	.....	.. ..	....
34	μ Geminorum......	11	17 10.98	+ 0.19	[−10.43]	16 18 7.95	41.735	+ 17.4	[2.2]	6 17	.....	.. ..	....
35	θ Geminorum......	11	46 29.12	+ 0.11	[−10.52]	4 46 7.02	45.585	+ 5.0	[2.7]	6 46	.....	.. ..	....
36	51 H. Cephei	6	55 0.30	− 4.98	[−11.17]	311 40 7.65	44.315	−1 6.6	[3.9]	6 54	.....	.. ..	....
37	δ Geminorum......	11	14 25.65	+ 0.20	[−10.51]	16 40 7.80	48.070	+ 18.0	[1.6]	7 14	.....	.. ..	....
	February 19, Hh.												
38	β Lyræ	11	46 35.85	+ 0.29	−10.64	5 36 7.15	45.642	+ 6.0	2.4	18 46	.....	.. ..	....
39	γ Lyræ	11	55 24.70	+ 0.30	−10.60	6 18 7.40	44.400	+ 6.7	1.8	18 55	.....	.. ..	....
40	ζ Aquilæ	11	1 2.14	+ 0.22	−10.45	25 8 8.20	43.835	+ 28.3	1.8	19 0	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
14	0	43	29.42	33.5	33.3
	1	8	29.42	33.6	33.0
	5	52	29.43	28.7	29.0
	6	23	29.435	28.4	28.9
	7	0	29.44	28.4	28.2
15	19	21	29.515	33.0	33.4
	19	59	29.51	36.8	37.0
	20	50	29.50	41.6	41.9
22	22	0	29.45	44.0	47.0
	22	55	29.41	46.7	50.0
	23	9	29.405	48.9	50.2
	0	13	29.38	53.8	54.2
18	19	5	29.465	39.6	38.8
	19	50	29.47	41.0	39.8
	20	46	29.465	42.9	41.1
19	22	11	29.42	43.9	43.0
	22	56	29.395	44.1	43.3
	23	19	29.38	45.2	44.4
	0	13	29.36	47.1	46.0
	1	7	29.345	47.0	45.3
	1	52	29.335	46.0	45.3
	5	49	29 35	38.5	36.9
	6	20	29.375	35.0	32.0
	7	3	29.39	32.2	29.6
	7	19	29.40	31.3	28.8
	18	51	29.45	26.8	25.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 33.	Bisections at c_5, c_4, c_3, c_2, c_1.
7.	Bisections at c_1, c_2 c_3, c_4, c_5.
12, 13, 14, 15, 24, 25.	Z. D. thread A used.
12.	Bisections at I, VII.
13.	Bisections at II, VI.
14, 24.	Bisections at I, II, III.
15, 25.	Bisections at V, VI, VII.
29.	Bisections at I, II.
32.	Bisections at I, II, VII.
36.	Bisections at c_4, c_5, d_1, d_2.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
12	+ 4.7	+ 5.8	0.0	+ 10.5
13	+ 4.7	− 5.8	...	− 1.1
14	+ 7.0	+16 14.1	...	+16 21.1
15	+ 6.9	−16 14.2	...	−16 7.3
17	+ 6.0	....	+ 0.4	+ 6.4
24	+ 6.8	−16 15.6	...	−16 8.8
25	+ 6.9	+16 15.6	...	+16 22.5
27	+ 6.3	....	+ 0.6	+ 6.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Cygni	11	42 22.40	+ 0.29	−10.58	5 16 4.80	41.926	+ 5.6	2.0	20 42	.....	.. ..	....
	February 20, Hh.												
2	Sun I, N	11	12 48.97	+ 0.62	**−10.65**	49 32 8.30	36.193	+1 10.1	**1.9**	22 12 38.94	+66.20	−10 42 33.0	....
3	Sun II, S	11	15 1.37	+ 0.62	**−10.65**	50 4 8.40	37.203	+1 11.5	**1.9**	22 14 51.34	−66.20	−11 14 57.8	....
4	α Pegasi	11	0 0.11	+ 0.43	−10.65	24 10 9.52	45.406	+ 26.8	2.4	22 59	.....	.. ..	....
5	Mercury I, C	11	19 13.68	+ 0.56	**−10.69**	41 40 9.42	47.049	+ 53.2	**1.9**	23 19 3.55	+ 0.24	− 2 50 32.7	....
6	α Andromedæ	11	3 26.75	+ 0.33	−10.62	10 18 7.85	45.194	+ 10.9	0.9	0 3	.....	.. ..	....
7	γ Pegasi	11	8 18.85	+ 0.43	−10.68	24 12 9.22	46.500	+ 26.9	1.8	0 8	.....	.. ..	....
8	β Ceti	11	38 47.66	+ 0.69	−10.88	57 22 8.50	42.826	+1 33.0	2.2	0 38	.....	.. ..	....
	February 24, Hd.												
9	γ Ceti	11	38 24.35	+ 0.54	−13.76	36 2 9.92	42.390	+ 43.9	1.5	2 38	.....	.. ..	....
10	α Ceti	11	57 20.50	+ 0.53	−13.79	35 8 9.82	45.580	+ 42.5	0.4	2 57	.....	.. ..	....
11	α Persei	11	17 30.33	+ 0.06	−13.59	349 20 8.18	46.325	− 11.3	59.7	3 17	.....	.. ..	....
12	Nova Persei	11	24 43.27	+ 0.15	**−13.70**	355 18 7.38	41.859	− 4.9	**0.5**	3 24 29.72	.... .	+43 34 5.1	....
13	Moon I, S	11	28 31.99	+ 0.41	**−13.70**	20 18 9.00	44.999	+ 22.5	**0.5**	3 28 18.70	+71.16	+18 29 21.5	....
14	γ Tauri	11	41 50.72	+ 0.35	−13.67	15 4 8.25	40.984	+ 16.3	59.6	3 41	.....	.. ..	....
15	ζ Persei	11	48 9.49	+ 0.28	−13.69	7 16 8.32	43.121	+ 7.8	1.1	3 47	.....	.. ..	....
	February 24, Br.												
16	γ Aquilæ	11	41 47.35	+ 0.52	−14.33	28 28 9.85	45.449	+ 32.9	1.2	19 41	.....	.. ..	....
17	α Aquilæ	11	46 11.35	+ 0.53	−14.33	30 14 9.20	45.056	+ 35.3	1.5	19 45	.....	.. ..	....
18	γ Sagittæ	11	54 35.37	+ 0.44	−14.36	19 38 8.18	42.784	+ 21.6	1.0	19 54	.....	.. ..	....
19	ε Cygni	11	42 26.25	+ 0.29	−14.35	5 16 8.05	41.678	+ 5.6	0.1	20 42	.....	.. ..	....
	February 25, Br.												
20	Sun I, S	11	31 56.08	+ 0.66	**−14.43**	48 12 10.08	45.053	+1 6.6	**1.0**	22 31 42.31	+65.71	− 9 25 22.1	....
21	Sun II, N	11	34 7.50	+ 0.66	**−14.43**	47 40 9.85	43.790	+1 5.3	**1.0**	22 33 53.73	−65.71	− 8 53 0.3	....
22	α Pegasi	11	0 3.94	+ 0.46	−14.50	24 10 9.92	45.342	+ 26.7	0.9	22 59	.....	.. ..	....
23	α Arietis	11	1 50.55	+ 0.37	−14.59	15 52 8.58	41.662	+ 16.8	1.0	2 1	.....	.. ..	....
24	β Persei	10	1 59.27	+ 0.21	−14.58	358 16 4.50	46.438	− 1.7	0.6	3 1	.....	.. ..	....
25	α Persei	11	17 31.19	+ 0.11	−14.53	349 20 7.92	46.362	− 11.0	0.3	3 17	.....	.. ..	....
26	Nova Persei	9	24 44.12	+ 0.18	**−14.61**	355 16 7.22	48.148	− 4.8	**0.7**	3 24 29.69	.....	+43 34 4.1	....
27	δ Persei	5	36 8.69	+ 0.13	−14.61	351 24 11.32	40.765	− 8.9	1.2	3 35	.....	.. ..	....
	February 25, Hh.												
28	ε Tauri	10	23 5.86	+ 0.40	−14.49	19 54 8.68	41.912	+ 21.5	2.2	4 22	.....	.. ..	....
29	Moon I, S	11	29 41.79	+ 0.39	**−14.61**	18 42 9.52	34.916	+ 20.1	**1.3**	4 29 27.57	+71.11	+20 8 37.6	....
30	τ Tauri	11	36 34.24	+ 0.36	−14.66	16 4 9.45	47.112	+ 17.1	1.1	4 36	.....	.. ..	....
31	*i* Tauri	11	45 50.99	+ 0.40	−14.68	20 10 8.75	46.179	+ 21.8	1.0	4 45	.....	.. ..	....
32	11 Orionis	11	59 10.73	+ 0.43	−14.63	23 34 9.40	46.990	+ 25.9	1.0	4 58	.....	.. ..	....
33	δ Ursæ Minoris S.P.	11	3 58.07	+ 6.01	[− 9.22]	305 30 8.05	41.850	−1 23.1	[1.6]	18 3	.....	.. ..	....
34	μ Geminorum	11	17 14.93	+ 0.36	−14.64	16 18 8.68	41.619	+ 17.5	0.9	6 17	.....	.. ..	....
35	γ Geminorum	11	23 21.70	+ 0.39	−14.66	18 34 9.22	45.812	+ 20.1	0.9	6 23	.....	.. ..	....
36	51 H. Cephei	11	55 3.64	− 6.42	[−15.09]	311 40 7.75	44.213	−1 7.0	[2.0]	6 54	.....	.. ..	....
	February 26, Br.												
37	δ Ursæ Minoris S. P.	8	4 6.64	+ 5.15	[−16.63]	305 30 7.28	41.871	−1 22.4	[2.1]	18 3	.....	.. ..	....
38	μ Geminorum	11	17 15.74	+ 0.27	[−15.38]	16 18 8.22	41.709	+ 17.3	[2.0]	6 17	.....	.. ..	....
39	θ Geminorum	11	46 34.05	+ 0.18	[−15.63]	4 46 7.52	45.565	+ 5.0	[3.2]	6 46	.....	.. ..	....
40	51 H. Cephei	10	55 5.08	− 5.56	[−17.69]	311 40 7.35	44.211	−1 6.4	[2.3]	6 54	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
19 20 48	29.47	28.1	26.1
20 22 15	29.44	30.0	29.0
23 8	29.44	31.8	30.0
23 49	29.44	33.5	31.0
0 18	29.44	33.9	30.1
0 44	29.44	33.8	30.0
24 2 35	29.63	31.2	28.3
3 6	29.635	29.9	27.8
3 53	29.65	27.8	26.8
19 40	.....	....	28.1
19 53	29.77	28.8	29.4
20 0	29.77	29.6	29.9
20 46	29.77	33.0	32.8
25 22 34	29.76	36.2	37.4
23 4	29.74	37.0	37.9
2 3	29.69	39.0	39.3
3 5	29.68	39.8	39.8
3 40	29.67	39.3	39.2
4 18	29.68	38.9	38.0
5 4	29.67	37.4	36.5
6 13	29.66	35.4	34.3
7 9	29.67	33.6	32.4
26 4 55	29.54	40.0	39.3
6 9	29.58	37.9	37.1
6 43	29.59	36.6	35.3
7 6	29.60	35.1	34.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 3, 13, 20, 21, 29.	Z. D. thread A used.
2, 20.	Bisections at I, II, III.
3, 21.	Bisections at V, VI, VII.
10, 23.	Bisections at VI, VII.
13, 29.	Bisections at II, III, IV, V, VI.
19, 26.	Bisections at II, VI, VII.
33, 37.	Bisections at c_5, c_4, c_3, c_2, c_1.
36, 40.	Bisections at c_1, c_2, c_3, c_4, c_5.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 6.8	−16 12.4	...	−16 5.6
3	+ 6.8	+16 12.4	...	+16 19.2
5	+ 6.4	....	+ 0.7	+ 7.1
13	+20 24.7	+16 7.6	...	+36 32.3
20	+ 6.6	+16 10.9	...	+16 17.5
21	+ 6.6	−16 10.9	...	−16 4.3
29	+18 36.0	+15 57.1	...	+34 33.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	February 26, Hh.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ Aquilæ	11	41 48.90	+ 0.43	−15. 75	28 28 8.52	45.502	+ 33.3	1. 2	19 41	.....	.. ..	....
2	α Aquilæ	11	46 12.88	+ 0.44	−15. 73	30 14 8.82	45.085	+ 35.7	1. 9	19 45	.....	.. ..	....
3	β Aquilæ	11	50 42.74	+ 0.47	−15. 78	32 40 9.75	47.377	+ 39.3	1. 3	19 50	.....	.. ..	....
4	ε Cygni	11	42 27.61	+ 0.24	−15. 62	5 16 6.82	41.879	+ 5.7	1. 8	20 42	.....	.. ..	....
5	Venus II, N.	11	41 33.26	+ 0.64	**−15.75**	53 50 7.92	33.575	+1 23.1	**1.8**	21 41 18.15	− 0.37	−14 59 57.4	....
	February 27, Hh.												
6	Sun I, N.	11	39 30.23	+ 0.58	**−15.77**	46 58 8.88	35.206	+1 4.9	**2.0**	22 39 15.04	+65.66	− 8 8 9.4	....
7	Sun II, S	11	41 41.55	+ 0.58	**−15.77**	47 30 9.00	36.098	+1 6.1	**2.0**	22 41 26.36	−65.66	− 8 40 32.2	....
8	α Andromedæ	11	3 31.87	+ 0.28	−15. 72	10 18 7.55	45.336	+ 11.0	2. 2	0 3	.....	.. ..	....
9	β Ceti	9	38 52.65	+ 0.68	−15. 91	57 22 8.52	42.831	+1 33.5	3. 3	0 38	.....	.. ..	....
10	β Andromedæ	10	4 27.28	+ 0.22	−15. 75	3 46 7.88	42.072	+ 4.0	1. 9	1 4	.....	.. ..	....
11	β Arietis	11	49 26.44	+ 0.35	−15. 86	18 32 8.90	42.355	+ 20.1	2. 3	1 49	.....	.. ..	....
12	β Persei	11	2 0.51	+ 0.17	−15. 82	358 16 7.62	46.322	− 1.7	1. 3	3 1	.....	.. ..	....
13	α Persei	11	17 32.39	+ 0.06	−15. 73	349 20 7.75	46.395	− 11.1	0. 5	3 17	.....	.. ..	....
14	Nova Persei	11	24 45.37	+ 0.14	**−15.78**	355 16 6.48	48.246	− 4.8	**1.8**	3 24 29.73	.....	+43 34 4.2	....
15	δ Persei	11	36 9.88	+ 0.09	−15. 81	351 22 7.08	47.294	− 9.0	1. 9	3 35	.....	.. ..	....
16	ε Persei	11	51 29.83	+ 0.18	−15. 75	359 8 7.00	43.362	− 0.8	1. 5	3 51	.....	.. ..	....
	February 27, Hd.												
17	δ Ursæ Minoris S. P.	8	4 6.05	+ 6.07	[−16. 67]	305 30 6.72	42.034	−1 24.8	[2. 3]	18 3	.....	.. ..	....
18	η Geminorum	11	9 12.15	+ 0.28	−16. 02	16 18 8.38	47.030	+ 17.9	1. 0	6 8	.....	.. ..	....
19	μ Geminorum	11	17 16.39	+ 0.28	−16. 06	16 18 7.85	41.650	+ 17.8	1. 0	6 17	.....	.. ..	....
20	ν Geminorum	11	23 23.20	+ 0.30	−16. 10	18 34 8.10	45.858	+ 20.5	1. 0	6 23	.....	.. ..	....
21	Moon I, N.	11	29 10.36	+ 0.31	**−16.09**	18 54 8.52	39.700	+ 20.9	**1.2**	6 28 54.58	+69.07	+19 55 6.0	....
22	ε Geminorum	11	38 8.88	+ 0.25	−16. 17	13 38 7.95	42.214	+ 14.8	1. 7	6 37	.....	.. ..	....
23	51 H. Cephei	8	55 3.49	− 6.68	[−15. 28]	311 40 6.85	44.332	−1 8.2	[2. 5]	6 54	.....	.. ..	....
24	ζ Cygni	11	8 59.51	+ 0.34	−16. 54	9 2 7.25	43.812	+ 9.8	1. 8	21 8	.....	.. ..	....
25	ε Pegasi	11	39 35.71	+ 0.50	−16. 62	29 26 9.15	42.296	+ 34.4	2. 0	21 39	.....	.. ..	....
26	Venus I, C.	6	46 27.60	+ 0.71	**−16.58**	53 26 7.85	46.830	+1 22.1	**1.9**	21 46 11.73	+ 0.36	−14 36 55.7	....
27	Venus II	5	46 28.34	+ 0.71	**−16.58**	... .	......	....	....	21 46 12.47	− 0.38	.. ..	....
	February 28, Hd.												
28	Sun I, S	11	43 16.81	+ 0.64	**−16.57**	47 6 8.68	40.886	+1 5.3	**1.9**	22 43 0.88	+65.49	− 8 17 58.6	....
29	Sun II, N.	11	45 27.78	+ 0.64	**−16.57**	46 34 9.20	39.460	+1 4.1	**1.9**	22 45 11.85	−65.48	− 7 45 35.0	....
30	α Andromedæ	11	3 32.64	+ 0.34	−16. 56	10 18 7.90	45.316	+ 11.0	2. 0	0 3	.....	.. ..	....
31	γ Pegasi	11	8 24.68	+ 0.45	−16. 57	24 12 9.75	46.491	+ 27.2	1. 7	0 8	.....	.. ..	....
32	β Ceti	8	38 53.28	+ 0.70	−16. 56	57 22	......	....	....	0 38	.....	.. ..	....
33	β Andromedæ	11	4 28.01	+ 0.29	−16. 56	3 46 7.70	42.090	+ 4.0	2. 0	1 4	.....	.. ..	....
	February 28, Br.												
34	β Persei	11	2 1.14	+ 0.17	−16. 47	358 16 6.85	46.329	− 1.7	0. 6	3 1	.....	.. ..	....
35	α Persei	11	17 33.09	+ 0.07	−16. 46	349 20 7.20	46.431	− 11.2	0. 5	3 17	.....	.. ..	....
36	Nova Persei	11	24 45.96	+ 0.14	**−16.45**	355 16 6.75	48.231	− 4.9	**0.8**	3 24 29.65	.....	+43 34 3.8	....
37	δ Persei	11	36 10.49	+ 0.09	−16. 44	351 24 5.92	41.036	− 9.0	0. 7	3 35	.....	.. ..	....
38	ε Persei	11	51 30.49	+ 0.17	−16. 42	359 8 7.48	43.328	− 0.8	1. 4	3 51	.....	.. ..	....
	February 28, Hh.												
39	δ Geminorum	11	14 31.46	+ 0.28	−16. 51	16 40 8.25	47.972	+ 18.3	0. 7	7 14	.....	.. ..	....
40	β Canis Minoris	11	22 5.48	+ 0.40	−16. 55	30 22 9.15	42.725	+ 35.7	1. 2	7 21	.....	.. ..	....
41	Moon I, N.	11	25 44.31	+ 0.33	**−16.52**	21 6 9.05	36.469	+ 23.6	**0.9**	7 25 28.12	+67.38	+17 44 4.4	....
42	ζ^1 Cancri	11	6 50.95	+ 0.32	−16. 51	20 54 8.00	45.122	+ 23.3	1. 4	8 6	.....	.. ..	....
43	η Cancri	11	27 18.07	+ 0.29	−16. 53	18 4 8.62	45.634	+ 20.0	0. 2	8 27	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
26 19 36	29. 86	27. 4	24. 6
19 56	29. 86	28. 1	25. 4
20 37	29. 86	29. 4	26. 7
21 45	29. 86	31. 3	28. 0
27 22 42	29. 835	31. 7	29. 6
0 11	29. 82	35. 5	33. 0
0 59	29. 80	36. 7	33. 8
1 45	29. 78	36. 7	34. 9
2 59	29. 77	36. 8	36. 1
3 47	29. 79	35. 8	35. 1
6 1	29. 86	29. 2	28. 2
6 41	29. 88	28. 3	27. 3
7 1	29. 85	27. 5	26. 6
21 13	30. 07	30. 5	28. 3
21 52	30. 07	32. 3	30. 6
28 22 45	30. 06	33. 3	32. 8
23 58	30. 05	35. 7	34. 7
0 34	30. 045	36. 7	35. 1
1 10	30. 04	37. 7	36. 2
2 56	30. 045	38. 5	38. 1
3 41	30. 05	37. 2	37. 1
3 55	30. 055	37. 0	36. 8
6 55	30. 06	31. 0	31. 6
7 34	30. 06	30. 4	30. 7
8 22	30. 06	29. 6	29. 6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3.	Bisections at II, VI, VII.
5, 6, 7, 21, 28, 29, 41.	Z. D. thread A used.
6, 28.	Bisections at I, II, III.
7, 29.	Bisections at VI, VII.
17.	Bisections at c_5, c_4, c_3, c_2, c_1.
21.	Bisections at III, IV, V.
23.	Bisections at c_1, c_2, c_3, c_4, c_5.
41.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 4.3	− 5.3	...	− 1.0
6	+ 6.5	−16 11.3	...	−16 4.8
7	+ 6.6	+16 11.4	...	+16 18.0
21	+18 24.3	−15 36.2	...	+ 2 48.1
26	+ 4.3	..:.	− 0.1	+ 4.2
28	+ 6.5	+16 11.8	...	+16 18.3
29	+ 6.5	−16 11.8	...	−16 5.3
41	+20 14.6	−15 26.7	...	+ 4 47.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	March 1, K.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ζ^{1} Cancri	7	6 51.69	+ 0.32	−17.26	20 54 7.65	45.222	+ 22.3	3.8	8 6	.....	.. ..	....
2	β Cancri	11	11 28.35	+ 0.38	−17.37	29 22 8.05	42.780	+ 32.9	5.2	8 11	.....	.. ..	....
3	Moon I, N.......	11	19 38.23	+ 0.35	**−17.34**	24 12 8.48	38.192	+ 26.3	**4.2**	8 19 21.24	+65.59	+14 37 32.5	....
4	η Cancri	11	27 18.90	− 0.30	−17.38	18 4 6.70	45.968	+ 19.1	3.7	8 27	.....	.. ..	....
	March 5, Hd.												
5	μ Leonis	11	47 29.72	+ 0.28	−19.08	12 22 7.15	47.072	+ 13.6	2.3	9 47	.....	.. ..	....
6	π Leonis	11	55 20.28	+ 0.40	−19.01	30 20 7.70	43.565	+ 36.2	1.1	9 55	.....	.. ..	....
7	α Leonis	11	3 27.32	+ 0.38	−18.92	26 24 8.28	44.126	+ 30.7	1.8	10 3	.....	.. ..	....
8	Mars I, C........	6	8 38.60	+ 0.35	**−19.01**	22 52 7.58	45.016	+ 26.1	**1.6**	10 8 19.94	+ 0.49	+15 58 34.8	....
9	Mars II	5	8 39.58	+ 0.35	**−19.01**	....	......	....	....	10 8 20.92	− 0.49	.. ..	....
10	γ^{1} Leonis	11	14 52.43	+ 0.32	−19.01	18 30 7.02	46.280	+ 20.8	1.1	10 14	.....	.. ..	....
11	δ Leonis	11	9 12.12	+ 0.32	−18.99	17 46 7.58	48.230	+ 20.0	2.4	11 8	.....	.. ..	....
12	τ Leonis	11	23 12.12	+ 0.44	−19.06	35 26 8.65	46.541	+ 44.3	2.6	11 22	.....	.. ..	....
13	Moon II, S	11	36 24.14	+ 0.49	**−19.03**	41 42 7.92	41.702	+ 55.5	**2.6**	11 36 5.60	−61.42	− 2 54 5.0	....
14	β Leonis	11	44 21.95	+ 0.36	−18.99	23 44 8.02	42.962	+ 27.4	2.5	11 44	.....	.. ..	....
15	π Virginis.........	11	56 9.31	+ 0.42	−19.08	31 40 7.90	47.236	+ 38.4	2.7	11 55	.....	.. ..	....
	March 6, Br.												
16	β Persei..........	11	2 3.65	+ 0.29	−19.22	358 16 7.48	46.326	− 1.8	0.3	3 1	.....	.. ..	....
17	α Persei...........	11	17 35.52	+ 0.21	−19.19	349 20 7.80	46.413	− 11.6	0.3	3 17	.....	.. ..	....
18	Nova Persei	11	24 48.45	+ 0.26	**−19.19**	355 16 6.98	48.258	− 5.0	**0.9**	3 24 29.52	.....	+43 34 3.3	....
19	δ Persei...........	11	36 12.94	+ 0.23	−19.18	351 24 7.95	41.004	− 9.3	1.2	3 35	.....	.. ..	....
20	ε Persei...........	11	51 32.99	+ 0.30	−19.18	359 8 6.92	43.420	− 0.9	1.9	3 51	.....	.. ..	....
21	μ Leonis	11	47 30.08	+ 0.41	−19.57	12 22 7.90	46.955	+ 13.9	1.9	9 47	.....	.. ..	....
22	π Leonis	11	55 20.60	+ 0.53	−19.46	30 20 9.12	43.482	+ 36.9	1.6	9 55	.....	.. ..	....
23	Mars I, C........	6	7 16.53	+ 0.48	**−19.47**	22 46 9.05	45.819	+ 26.5	**1.9**	10 6 57.54	+ 0.60	+16 4 17.8	....
24	Mars II	5	7 17.72	+ 0.48	**−19.47**	....	......	....	....	10 6 58.73	− 0.59	.. ..	....
25	γ^{1} Leonis	11	14 52.69	+ 0.45	−19.40	18 30 8.00	46.262	+ 21.2	2.2	10 14	.....	.. ..	....
26	ρ Leonis	11	27 57.65	+ 0.52	−19.46	29 2 9.48	44.175	+ 35.1	1.7	10 27	.....	.. ..	....
27	ο Virginis.........	11	0 31.65	+ 0.53	−19.53	29 34 9.08	44.058	+ 35.9	1.5	12 0	.....	.. ..	....
28	γ Corvi............	11	11 4.49	+ 0.71	−19.55	55 50 8.68	42.575	+1 33.0	2.6	12 10	.....	.. ..	....
29	Moon II, S......	11	22 48.15	+ 0.65	**−19.57**	46 4 9.35	41.845	+1 5.7	**1.9**	12 22 29.23	−61.50	− 7 16 18.7	....
30	β Corvi............	11	29 32.85	+ 0.76	−19.61	61 40	......	....	....	12 29	.....	.. ..	....
	March 6, Hd.												
31	ε Cygni	11	42 31.75	+ 0.28	−19.65	5 16 7.38	41.890	+ 5.7	1.2	20 42	.....	.. ..	....
32	ζ Cygni	11	9 2.73	+ 0.33	−19.63	9 2 7.60	43.789	+ 9.8	0.6	21 8	.....	.. ..	....
33	β Aquarii	11	26 40.29	+ 0.67	−19.73	44 50 10.00	45.978	+1 0.4	0.5	21 26	.....	.. ..	....
34	Venus I, C.......	6	20 20.37	+ 0.73	**−19.71**	50 34 9.00	46.058	+1 13.5	**0.6**	22 20 1.39	+ 0.39	−11 44 34.7	....
35	Venus II	5	20 21.18	+ 0.73	**−19.71**	... .	......	....	....	22 20 2.20	− 0.42	.. ..	....
	March 7, Hd.												
36	Sun I, N	11	9 25.19	+ 0.66	**−19.73**	43 52 9.48	43.055	+ 57.9	**0.6**	23 9 6.12	+64.96	− 5 4 35.4	....
37	Sun II, S........	11	11 35.12	+ 0.66	**−19.73**	44 24 9.88	43.725	+ 59.0	**0.6**	23 11 16.05	−64.97	− 5 36 53.2	....
38	β Persei...........	11	2 4.40	+ 0.20	−19.90	358 16 8.75	46.158	− 1.7	59.1	3 1	.....	.. ..	....
39	α Persei...........	11	17 36.31	+ 0.09	−19 88	349 20 7.75	46.359	− 11.2	58.8	3 17	.....	.. ..	....
40	Nova Persei	11	24 49.24	+ 0.17	**−19.87**	355 16 7.48	48.080	− 4.9	**59.2**	3 24 29.54	.....	+43 34 2.5	....
41	δ Persei...........	11	36 13.68	+ 0.12	−19.84	351 22 7.75	47.168	− 9.0	59.4	3 35	.....	.. ..	....
42	η Tauri	11	41 56.70	+ 0.36	−19.86	15 2 7.62	47.328	+ 16.1	59.9	3 41	.....	.. ..	....
43	ζ Persei...........	11	48 15.44	+ 0.30	−19.87	7 16 7.30	43.196	+ 7.7	0.7	3 47	.....	.. ..	....
44	c Persei...........	11	1 49.76	+ 0.12	−19.78	351 24 7.40	45.275	− 9.0	59.7	4 1	.....	.. ..	....
45	γ Tauri	11	14 30.45	+ 0.43	−19.96	23 28 9.28	42.696	+ 26.0	0.7	4 14	.....	.. ..	....
46	ε Tauri	11	23 11.12	+ 0.40	−19.93	19 54 8.30	41.846	+ 21.7	0.4	4 22	.....	.. ..	....
47	6 B Ursæ Minoris..	8	15 21.84	−11.62	[−17.62]	310 38 6.95	43.490	−1 10.5	[0.2]	12 14	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
1	8	5	29.65	44.7	44.2
	8	31	29.635	43.3	43.1
5	10	10	29.72	19.3	17.8
	10	44	29.73	18.5	17.0
	11	13	29.74	18.0	16.4
	11	33	29.745	17.8	16.1
	11	53	29.745	17.3	16.0
6	2	55	29.92	23.8	19.1
	3	30	29.93	22.5	19.2
	3	55	29.93	22.0	19.1
	9	44	30.015	14.9	14.0
	10	32	30.02	14.8	12.9
	11	52	30.03	14.9	13.1
	12	34	30.03	14.5	13.1
	20	46	30.055	27.6	28.4
	21	14	30.06	29.9	30.8
	21	42	30.05	31.5	32.0
	22	23	30.06	33.8	34.5
7	23	9	30.04	35.0	36.4
	3	7	29.975	36.9	38.2
	3	54	29.97	37.5	37.3
	4	18	29.97	37.0	36.7
	12	4	29.95	29.3	29.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 2, 27, 28, 40.	Bisections at VI, VII.
3, 13, 29, 36, 37.	Z. D. thread A used.
3, 13.	Bisections at II, III, IV, V, VI.
17, 21, 38.	Bisections at II, VI, VII.
29.	Bisections at IV, V, VI.
36.	Bisections at II, III.
37.	Bisections at V, VI, VII.
47.	Bisections at c_1, c_2, c_3, c_4, c_5.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+22 51.4	−15 18.0	...	+ 7 33.4
8	+ 4.9	....	0.0	+ 4.9
13	+36 7.4	+14 51.9	...	+50 59.3
23	+ 4.9	....	0.0	+ 4.9
29	+38 56.9	+14 48.1	...	+53 45.0
34	+ 4.2	....	− 0.1	+ 4.1
36	+ 6.2	−16 8.9	...	−16 2.7
37	+ 6.2	+16 8.9	...	+16 15.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ² Corvi	11	25 6.85	+ 0.71	−20.29	54 48 8.90	43.969	+1 26.1	1.4	12 24	.....	.....	....
2	ε Virginis	11	57 37.24	+ 0.46	−20.25	27 22 9.72	42.738	+ 31.5	1.2	12 57	.....	.....	....
3	Moon II, S.	11	9 35.86	+ 0.67	**−20.28**	50 8 8.45	41.348	+1 13.0	**1.2**	13 9 16.25	−62.01	−11 20 17.6	....
4	α Ursæ Minoris S. P.	7	22 41.64	+17.79	[−24.01]	307 40 7.25	43.022	−1 18.4	[0.0]	1 22	.....	.....	....
5	ζ Virginis	11	30 1.05	+ 0.56	−20.24	38 56	......	....	....	13 29	.....	.....	....
6	*m* Virginis	11	36 47.16	+ 0.64	−20.35	47 2 8.62	46.069	+1 5.4	1.4	13 36	.....	.....	....
7	κ Virginis	11	7 58.93	+ 0.65	−20.29	48 38 8.62	47.530	+1 9.2	0.9	14 7	.....	.....	....
	March 11, Hh.												
8	α Scorpii	11	23 43.27	+ 0.64	−21.54	65 2 8.32	44.002	+2 6.6	4.5	16 23	.....	.....	....
9	Moon II, S	11	29 54.49	+ 0.59	**−21.65**	60 20 7.95	47.092	+1 43.9	**4.0**	16 29 33.43	−66.39	−21 34 35.3	....
10	η Ophiuchi	11	5 4.84	+ 0.52	−21.60	54 26 7.42	44.540	+1 22.7	4.5	17 4	.....	.....	....
11	θ Ophiuchi	11	16 18.68	+ 0.62	−21.71	63 44	......	....	....	17 15	.....	.....	....
12	*b* Ophiuchi	11	20 42.35	+ 0.61	−21.75	62 54 8.58	45.381	+1 55.4	2.9	17 20	.....	.....	....
	March 11, La.												
13	ε Cygni	11	42 33.92	+ 0.08	−21.50	5 16 5.85	42.162	+ 5.4	3.8	20 42	.....	.....	....
14	ζ Cygni	11	9 5.01	+ 0.09	−21.58	9 2 7.35	44.022	+ 9.3	3.5	21 8	.....	.....	....
15	ε Pegasi	11	39 41.19	+ 0.23	−21.66	29 26 8.75	42.568	+ 32.8	4.6	21 39	.....	.....	....
16	Venus I, C.	6	44 3.09	+ 0.34	**−21.58**	48 22 8.35	44.130	+1 4.8	**4.3**	22 43 41.85	+ 0.44	− 9 31 44.7	....
17	Venus II	4	44 3.98	+ 0.34	**−21.58**	... .	......	....	....	22 43 42.74	− 0.45	.....	....
	March 12, La.												
18	Sun I, N.	11	27 52.85	+ 0.29	**−21.58**	41 56 8.95	39.647	+ 51.5	**4.4**	23 27 31.56	+64.79	− 3 7 18.8	....
19	Sun II, S	11	30 2.42	+ 0.29	**−21.58**	42 28 8.18	40.372	+ 52.5	**4.4**	23 29 41.13	−64.78	− 3 39 36.9	....
20	α Andromedæ	11	3 37.93	+ 0.04	−21.56	10 18 7.22	45.574	+ 10.4	3.8	0 3	.....	.....	....
21	β Andromedæ	11	4 33.19	+ 0.01	−21.56	3 46 8.62	42.370	+ 3.8	5.8	1 4	.....	.....	....
22	β Arietis	11	49 32.32	+ 0.14	−21.67	18 32 10.02	42.528	+ 19.0	4.5	1 49	.....	.....	....
23	α Arietis	11	1 57.61	+ 0.12	−21.58	15 52 10.28	41.957	+ 16.1	5.0	2 1	.....	.....	....
24	β Persei	11	2 6.23	− 0.03	−21.60	358 16 5.78	46.636	− 1.6	4.1	3 1	.....	.....	....
25	α Persei	11	17 37.99	− 0.14	−21.45	349 20 6.32	46.670	− 10.6	3.3	3 17	.....	.....	....
26	Nova Persei	11	24 51.09	− 0.06	**−21.57**	355 18 5.78	42.304	− 4.6	**3.7**	3 24 29.46	.....	+43 34 1.1	....
	March 16, B.												
27	δ Ursæ Minoris S. P.	9	4 18.42	+ 5.58	[−22.58]	305 30 5.62	41.996	−1 22.8	[3.9]	18 4	.....	.....	....
28	μ Geminorum	11	17 22.14	+ 0.12	[−21.95]	16 18 7.40	41.764	+ 17.4	[2.4]	6 17	.....	.....	....
29	ν Geminorum	10	23 28.94	+ 0.14	[−21.97]	18 34 7.48	45.912	+ 20.0	[2.8]	6 23	.....	.....	....
30	51 H. Cephei	8	55 4.06	− 6.40	[−22.59]	311 40 6.65	44.171	−1 6.7	[3.2]	6 54	.....	.....	....
	March 17, Hh.												
31	ε Cygni	11	42 34.85	+ 0.08	−22.28	5 16 5.48	42.202	+ 5.5	3.6	20 42	.....	.....	....
32	ζ Cygni	11	9 5.83	+ 0.11	−22.29	9 2 6.60	44.082	+ 9.4	3.3	21 8	.....	.....	....
33	β Aquarii	11	26 43.42	+ 0.40	−22.40	44 50 7.75	46.338	+ 58.2	3.4	21 26	.....	.....	....
34	ε Pegasi	11	39 42.04	+ 0.27	−22.46	29 26 7.75	42.639	+ 32.9	4.8	21 39	.....	.....	....
35	Moon II	11	6 31.21	+ 0.40	**−22.35**	45 56	......	....	....	22 6 9.26	−68.56	.....	....
36	Mercury II, C.	11	38 17.05	+ 0.37	**−22.35**	45 50 7.95	42.624	+ 59.5	**4.4**	22 37 55.07	− 0.35	− 6 59 10.1	....
37	Venus II, N.	11	12 2.43	+ 0.34	**−22.35**	45 34 8.65	34.734	+ 58.7	**4.6**	23 11 40.42	− 0.35	− 6 43 53.2	....
	March 18, Hh.												
38	Sun I, S	11	49 51.31	+ 0.28	**−22.35**	40 4 8.15	46.840	+ 48.3	**4.9**	23 49 29.24	+64.47	− 1 17 32.3	....
39	Sun II, N.	11	52 0.25	+ 0.28	**−22.35**	39 32 9.08	46.100	+ 47.3	**4.9**	23 51 38.18	−64.47	− 0 45 22.0	....
40	β Andromedæ	11	4 33.94	− 0.02	−22.30	3 46 7.00	42.448	+ 3.8	4.8	1 4	.....	.....	....
41	α Arietis	11	1 58.33	− 0.10	−22.34	15 52 7.62	42.210	+ 16.0	5.8	2 1	.....	.....	....
42	α Ceti	11	57 29.06	+ 0.25	−22.38	35 8 8.30	46.265	+ 39.5	6.9	2 57	.....	.....	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
7 13 1	29.95	30.3	29.2
13 42	29.95	29.9	28.7
14 12	29.95	29.6	28.4
11 16 18	29.64	38.0	37.8
17 26	29.68	38.0	37.8
20 48	29.72	46.0	45.6
21 32	29.73	48.5	48.0
22 58	29.74	51.4	52.6
12 23 30	29.72	53.0	54.8
1 7	29.70	56.6	59.0
2 7	29.72	58.0	59.8
3 27	29.72	59.0	60.3
16 5 58	29.78	39.5	38.2
7 0	29.80	37.0	36.0
17 20 38	29.94	44.0	44.4
21 13	29.94	46.8	46.4
21 48	29.94	50.3	50.3
22 33	29.94	52.9	53.0
23 19	29.92	55.8	56.8
18 23 52	29.895	56.7	58.1
1 8	29.85	58.9	62.0
2 8	29.83	62.7	65.3
2 53	29.82	65.3	66.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 9, 18, 19, 37, 38, 39.	Z. D. thread A used.
3, 9.	Bisections at II, III, IV, V, VI.
4.	Bisections at c_5, c_4, c_3, c_2, c_1.
18, 38.	Bisections at I, II, III.
19, 39.	Bisections at V, VI, VII.
23.	Bisections at II, VI, VII.
27.	Bisections at c_2, c_1, b_3, b_2, b_1.
29.	Bisections at VI, VII.
30.	Bisections at c_1, c_2, c_3, c_4, c_5.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+41 24.8	+14 45.9	...	+56 10.7
9	+47 37.2	+14 59.2	...	+62 36.4
16	+ 4.0	....	− 0.1	+ 3.9
18	+ 5.9	−16 9.0	...	−16 3.1
19	+ 6.0	+16 9.0	...	+16 15.0
36	+ 9.5	....	− 0.9	+ 8.6
37	+ 3.8	− 5.1	...	− 1.3
38	+ 5.7	+16 5.1	...	+16 10.8
39	+ 5.6	−16 5.1	...	−15 59.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Persei	11	2 6.81	− 0.06	−22. 25	358 16 5.90	46.784	− 1.6	6. 2	3 1	.....	.. ..	....
2	α Persei	11	17 38.70	− 0.17	−22. 26	349 20 7.15	46.766	− 10.5	5. 2	3 17	.....	.. ..	....
3	Nova Persei	11	24 51.75	− 0.09	**−22.29**	355 16	......	....	....	3 24 29.37	....	.. ..	....
4	δ Persei	11	36 16.11	− 0.14	−22. 27	351 22	......	....	....	3 35	.....	.. ..	....
5	η Tauri	11	41 59.29	+ 0.10	−22. 38	15 4 7.18	41.482	+ 15.1	5. 5	3 41	.....	.. ..	....
6	ε Persei	11	51 36.17	− 0.05	−22. 26	359 8	......	....	....	3 51	.....	.. ..	....
7	δ Ursæ Minoris S. P.	11	4 19.48	+ 5.22	[−22. 53]	305 30 7.12	41.861	−1 17.8	[8. 0]	18 4	.....	.. ..	....
8	μ Geminorum	11	17 22.57	+ 0.14	[−22. 44]	16 18 7.18	42.020	+ 16.4	[6. 1]	6 17	.....	.. ..	....
9	ν Geminorum	11	23 29.30	+ 0.16	[−22. 39]	18 34 7.02	46.296	+ 18.9	[6. 7]	6 23	.....	.. ..	....
10	51 H. Cephei	11	55 4.83	− 5.94	[−24. 65]	311 40 5.75	44.248	−1 3.3	[7. 4]	6 54	.....	.. ..	....
	March 20, La.												
11	ζ Cygni	11	9 6.65	+ 0.09	−23. 02	9 2 5.60	44.286	+ 9.3	5. 8	21 8	.....	.. ..	....
12	β Aquarii	11	26 44.25	+ 0.33	−23. 10	44 50 7.05	46.554	+ 57.7	6. 5	21 26	.....	.. ..	....
13	ε Pegasi	11	39 42.81	+ 0.23	−23. 12	29 26 7.28	42.761	+ 32.8	6. 5	21 39	.....	.. ..	....
14	α Aquarii	8	1 5.30	+ 0.29	−23. 13	39 38 8.42	45.930	+ 48.0	6. 9	22 0	.....	.. ..	....
15	Mercury II, C.	11	38 21.26	+ 0.34	**−23.11**	46 36 7.00	47.614	+1 1.1	**6.6**	22 37 58.49	− 0.33	− 7 46 44.2	....
16	α Pegasi	11	0 13.05	+ 0.20	−23. 18	24 10 7.20	45.944	+ 25.9	7. 1	22 59	.....	.. ..	....
17	Venus I, C.	6	25 52.55	+ 0.32	**−23.11**	44 8 7.60	43.978	+ 55.9	**6.6**	23 25 29.76	+ 0.38	− 5 17 29.9	....
18	Venus II	5	25 53.32	+ 0.32	**−23.11**	... .	......	....	....	23 25 30.53	− 0.39	.. ..	....
	March 21, K.												
19	ζ Cygni	5	9 6.81	+ 0.03	−23. 10	9 2 6.35	44.138	+ 9.4	5. 6	21 8	.....	.. ..	....
20	1 Pegasi	11	17 54.04	+ 0.12	−23. 17	19 28 7.20	44.690	+ 20.8	4. 7	21 17	.....	.. ..	....
21	β Aquarii	11	26 44.40	+ 0.33	−23. 23	44 50 8.12	46.358	+ 58.4	4. 6	21 26	.....	.. ..	....
22	ε Pegasi	11	39 42.95	+ 0.20	−23. 21	29 26 8.28	42.629	+ 33.1	5. 3	21 39	.....	.. ..	....
	March 22, K.												
23	Sun I, S.	11	4 26.86	+ 0.26	**−23.23**	38 32 5.28	38.337	+ 46.4	**5.2**	0 4 3.89	+64.42	+ 0 17 15.8	....
24	Sun II, N.	11	6 35.70	+ 0.26	**−23.23**	38 0 4.38	37.768	+ 45.5	**5.2**	0 6 12.73	−64.42	+ 0 49 24.6	....
25	β Arietis	11	49 33.87	+ 0.10	−23. 25	18 32 6.62	42.772	+ 19.4	5. 3	1 49	.....	.. ..	....
26	Moon I.	11	1 32.13	+ 0.14	**−23.26**	24 56	......	....	....	2 1 9.01	+71.58	.. ..	....
27	α Ceti	11	57 29.93	+ 0.21	−23. 25	35 8 7.78	46.165	+ 40.5	5. 4	2 57	.....	.. ..	....
28	β Persei	..	.. ..	....	.....	358 16 6.48	46.729	− 1.7	5. 2	3 1	.....	.. ..	....
29	ε Eridani	11	28 39.58	+ 0.32	−23. 33	48 38 6.78	44.171	+1 5.3	5. 6	3 28	.....	.. ..	....
	March 22, B.												
30	ζ Cygni	10	9 7.00	+ 0.05	−23. 29	9 2 6.78	44.188	+ 9.4	5. 0	21 8	.....	.. ..	....
31	ε Pegasi	11	39 43.13	+ 0.19	−23. 36	29 26 9.62	42.631	+ 33.1	6. 7	21 39	.....	.. ..	....
32	Venus I, C.	6	35 3.65	+ 0.26	**−23.29**	43 10 7.50	42.885	+ 54.1	**6.6**	23 34 40.62	+ 0.45	− 4 19 7.1	....
33	Venus II	5	35 4.56	+ 0.26	**−23.29**	... .	......	....	....	23 34 41.53	− 0.46	.. ..	....
	March 23, B.												
34	Sun I, S	11	8 5.35	+ 0.22	**−23.28**	38 6 8.48	45.503	+ 45.2	**6.6**	0 7 42.29	+64.47	+ 0 40 57.8	....
35	Sun II, N.	10	10 14.28	+ 0.22	**−23.28**	37 34 7.52	44.965	+ 44.3	**6.6**	0 9 51.22	−64.46	+ 1 13 5.5	....
36	β Andromedæ	11	4 34.95	− 0.08	−23. 26	3 46 6.45	42.626	+ 3.8	6. 9	1 4	.....	.. ..	....
37	α Arietis	11	1 59.35	+ 0.04	−23. 33	15 52 7.38	42.285	+ 16.3	6. 8	2 1	.....	.. ..	....
38	β Trianguli	7	4 2.92	− 0.06	−23. 18	4 20 5.78	44.415	+ 4.4	7. 5	2 3	.....	.. ..	....
	March 24, B.												
39	β Persei	11	2 7.88	− 0.14	−23. 33	358 16 5.38	46.910	− 1.6	7. 4	3 1	.....	.. ..	....
40	α Persei	11	17 39.75	− 0.27	−23. 33	349 20 5.38	46.979	− 10.4	6. 6	3 17	.....	.. ..	....
41	Nova Persei	11	24 52.75	− 0.18	**−23.34**	355 16 5.25	48.738	− 4.5	**7.2**	3 24 29.23	.....	+43 34 1.6	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
18 3 30	29.81	65.1	66.8
3 48	29.81	65.2	67.0
6 15	29.80	61.3	67.7
7 5	29.81	60.2	61.0
20 21 17	29.585	46.3	45.6
21 45	29.58	47.8	46.1
22 41	29.58	49.2	48.3
23 30	29.585	50.4	49.6
21 21 12	29.785	43.7	43.3
21 40	29.795	45.1	44.3
22 0 6	29.79	50.2	48.3
1 40	29.77	52.8	51.0
3 4	29.77	52.5	53.2
3 30	29.765	53.0	53.1
21 5	29.93	47.0	44.3
21 46	29.935	49.0	47.5
23 36	29.92	54.7	54.2
23 0 10	29.895	55.8	55.6
1 8	29.89	57.0	57.5
1 48	29.90	60.0	59.0
2 45	29.89	60.5	60.0
24 2 53	29.74	64.1	66.0
3 28	29.73	65.3	66.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7.	Bisections at c_5, c_4, c_3, c_2, c_1.
10.	Bisections at c_1, c_2, c_3, c_4, c_5.
19, 35, 38.	Bisections at VI, VII.
23, 24, 34, 35.	Z. D. thread A used.
23, 34.	Bisections at I, II, III.
24.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
15	+ 9.2	....	− 1.0	+ 8.2
17	+ 3.7	....	0.0	+ 3.7
23	+ 5.5	+16 4.4	...	+16 9.9
24	+ 5.5	−16 4.4	...	−15 58.9
32	+ 3.5	....	0.0	+ 3.5
34	+ 5.5	+16 3.8	...	+16 9.3
35	+ 5.4	−16 3.8	...	−15 58.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Persei...........	11	36 17.10	− 0.24	−23.28	351 24 6.68	41.469	− 8.4	7.5	3 35	.....	.. ..	....
2	η Tauri............	11	42 0.32	+ 0.03	−23.42	15 4 5.60	41.726	+ 15.1	8.2	3 41	.....	.. ..	....
3	ζ Persei...........	11	48 18.99	− 0.05	−23.38	7 16 5.60	43.808	+ 7.2	8.9	3 47	.....	.. ..	....
4	Moon I, S.......	11	7 32.01	+ 0.06	**−23.45**	19 20 6.90	47.172	+ 19.8	**8.7**	4 7 8.62	+72.28	+19 26 52.9	....
5	γ Tauri............	3	14 34.06	+ 0.10	−23.53	23 28 7.95	43.398	+ 24.3	8.8	4 14	.....	.. ..	....
6	ε Tauri............	11	22 14.68	+ 0.07	−23.45	19 54 6.38	42.499	+ 20.3	8.9	4 22	.....	.. ..	....
	March 26, La.												
7	6 B. Ursæ Minoris.	8	15 27.90	−10.74	[−22.96]	310 38 3.02	43.510	−1 6.5	[6.7]	12 14	.....	.. ..	....
8	γ Virginis (*mean*)..	11	37 4.75	− 0.11	[−23.37]	39 44 6.12	48.178	+ 47.7	[6.7]	12 36	.....	.. ..	....
9	α Ursæ Minoris S. P.	7	22 37.06	+15.50	[−24.03]	307 40 2.78	43.076	−1 14.0	[6.4]	1 22	.....	.. ..	....
10	m Virginis.........	11	36 51.02	+ 0.17	[−23.43]	47 2 7.05	46.654	+1 1.7	[5.8]	13 36	.....	.. ..	....
	March 28, La.												
11	β Geminorum......	11	39 41.42	+ 0.07	−23.68	10 36 5.75	42.185	+ 11.0	4.2	7 39	.....	.. ..	....
12	φ Geminorum......	11	47 52.25	+ 0.08	−23.64	11 50 6.08	44.029	+ 12.4	4.9	7 47	.....	.. ..	....
13	Moon I, N.	11	3 29.92	+ 0.16	**−23.68**	23 22 9.82	38.310	+ 25.5	**4.4**	8 3 6.40	+66.17	+15 27 31.1	....
14	β Cancri...........	11	11 34.54	+ 0.19	−23.72	29 22 6.92	42.848	+ 33.1	4.2	8 11	.....	.. ..	....
15	η Cancri...........	11	27 25.05	+ 0.12	−23.69	18 4 5.95	45.946	+ 19.3	4.1	8 27	.....	.. ..	....
	March 28, K.												
16	ε Pegasi...........	11	39 43.76	+ 0.20	−23.88	29 26 6.98	42.680	+ 33.3	5.2	21 39	.....	.. ..	....
17	α Aquarii..........	7	1 6.08	+ 0.27	−23.75	39 38 7.70	45.788	+ 48.8	4.7	22 0	.....	.. ..	....
18	Mercury C, C....	11	52 43.05	+ 0.32	**−23.83**	47 0 8.30	46.907	+1 2.9	**4.7**	22 52 19.54	− 0.13	− 8 10 35.7	....
19	α Pegasi...........	11	0 13.84	+ 0.16	−23.83	24 10 7.65	45.778	+ 26.4	4.5	22 59	.....	.. ..	....
20	Venus I, C.......	6	2 26.78	+ 0.24	**−23.81**	40 12 7.42	44.016	+ 49.3	**4.6**	0 2 3.21	+ 0.40	− 1 21 25.9	....
21	Venus II	5	2 27.58	+ 0.24	**−23.81**	... .	......	....	....	0 2 4.01	− 0.40	.. ..	....
	March 29, K.												
22	Sun I, S.........	11	29 54.62	+ 0.20	**−23.80**	35 48 8.35	35.670	+ 42.1	**4.5**	0 29 31.02	+64.47	+ 3 2 7.5	....
23	Sun II, N........	11	32 3.55	+ 0.20	**−23.80**	35 16 7.90	35.348	+ 41.3	**4.5**	0 31 39.95	−64.46	+ 3 34 11.0	....
24	η Tauri............	11	42 0.58	+ 0.01	−23.73	15 4 6.88	41.424	+ 15.6	3.8	3 41	.....	.. ..	....
25	ζ Persei...........	11	48 19.28	− 0.05	−23.74	7 16 5.82	43.580	+ 7.4	4.5	3 47	.....	.. ..	....
26	ε Persei...........	11	51 37.51	− 0.11	−23.74	359 8 6.28	43.672	− 0.8	3.9	3 51	.....	.. ..	....
	March 31, La.												
27	α Aquarii..........	11	1 7.75	+ 0.34	−25.43	39 38 3.78	45.818	+ 48.6	1.0	22 0	.....	.. ..	....
28	α Pegasi...........	11	0 15.53	+ 0.22	−25.53	24 10 8.28	45.631	+ 26.3	2.1	22 59	.....	.. ..	....
29	Mercury C.......	11	2 12.37	+ 0.36	**−25.48**	46 34	......	....	....	23 1 47.25	− 0.11	.. ..	....
30	α Andromedæ.....	10	3 41.91	+ 0.10	−25.49	10 18 7.88	45.430	+ 10.6	1.1	0 3	.....	.. ..	....
31	Venus I, C.......	6	16 6.43	+ 0.28	**−25.48**	38 42 7.75	45.278	+ 46.6	**1.6**	0 15 41.23	+ 0.43	+ 0 8 9.2	....
32	Venus II	5	16 7.30	+ 0.28	**−25.48**	... .	......	....	....	0 15 42.10	− 0.44	.. ..	....
	April 1, La.												
33	Sun I............	11	40 50.61	+ 0.25	**−25.47**	34 20	......	....	....	0 40 25.39	+64.53	.. ..	....
34	Sun II...........	11	42 59.67	+ 0.25	**−25.47**	... .	......	....	....	0 42 34.45	−64.53	.. ..	....
35	β Andromedæ.....	11	4 37.05	+ 0.04	−25.47	3 46 1.32	42.688	+ 3.9	2.3	1 4	.....	.. ..	....
36	ο Leonis..........	11	36 20.07	+ 0.14	−25.64	28 30 7.70	45.730	+ 31.7	4.0	9 35	.....	.. ..	....
37	ε Leonis..........	11	40 42.15	+ 0.07	−25.61	14 38 7.00	42.474	+ 15.3	2.5	9 40	.....	.. ..	....
38	Mars I, N........	6	46 32.65	+ 0.11	**−25.64**	21 58 6.70	38.978	+ 23.6	**3.3**	9 46 7.12	+ 0.52	+16 51 21.0	....
39	Mars II, S.......	5	46 33.64	+ 0.11	**−25.64**	21 58 6.70	39.725	+ 23.6	**3.3**	9 46 8.11	− 0.47	+16 51 6.5	....
40	π Leonis..........	11	55 27.02	+ 0.15	−25.67	30 20 7.15	43.804	+ 34.1	3.3	9 55	.....	.. ..	....
41	p^3 Leonis..........	10	2 19.46	+ 0.18	−25.65	36 20 7.32	48.398	+ 42.9	4.3	11 1	.....	.. ..	....
42	δ Leonis..........	11	9 19.03	+ 0.08	−25.65	17 46 6.52	48.285	+ 18.8	3.5	11 8	.....	.. ..	....
43	Moon I, N........	11	18 53.47	+ 0.20	**−25.68**	39 46 9.05	35.125	+ 48.6	**3.6**	11 18 27.99	+61.31	− 0 55 52.1	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
24 4 26	29.73	66.0	66.1
26 12 19	29.27	48.0	46.7
13 17	29.295	47.3	46.2
28 7 45	29.555	41.2	39.8
8 31	29.585	40.5	39.1
21 37	29.695	41.6	40.1
22 54	29.70	44.7	42.6
0 0	......	....	45.0
29 0 32	29.685	47.6	45.1
3 40	29.69	50.0	48.9
3 53	29.69	49.9	49.0
31 22 11	29.785	46.1	44.5
23 5	29.82	48.3	46.6
0 10	29.81	49.6	49.0
1 0 43	29.79	50.4	50.4
1 11	29.795	51.6	51.8
9 30	29.825	48.5	48.3
9 59	29.83	48.2	47.9
10 57	29.825	48.2	47.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.	
4, 13, 22, 23, 38, 39, 43.	Z. D. thread A used.
4, 43.	Bisections at II, III, IV, V, VI.
5.	Bisections at I, II.
7.	Bisections at c_2, c_3, c_4, c_5.
9.	Bisections at c_5, c_4, c_3, c_2, c_1.
13.	Bisections at V, VI.
14.	Bisections at I, VI, VII.
22.	Bisections at I, II, III.
23.	Bisections at V, VI, VII.
27.	Bisections at I, VI.
30.	Bisections at VI, VII.
35.	Bisections at II, VI, VII.
38.	Bisections at II, VI.
39.	Bisections at I, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+19 38.9	+16 15.8	...	+35 54.7
13	+22 12.5	−15 22.0	...	+ 6 50.5
18	+ 8.1	....	− 0.8	+ 7.3
20	+ 3.3	....	0.0	+ 3.3
22	+ 5.2	+16 1.7	...	+16 6.9
23	+ 5.1	−16 1.7	...	−15 56.6
31	+ 3.2	....	0.0	+ 3.2
38	+ 4.1	− 7.3	...	− 3.2
39	+ 4.1	+ 7.3	− 0.1	+ 11.3
43	+34 40.0	−14 51.0	...	+19 49.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	υ Leonis	11	32 21.13	+ 0.19	−25.72	39 8 8.40	42.474	+ 47.5	3.5	11 31	.....	.. ..	....
2	β Leonis	11	44 29.00	+ 0.12	−25.69	23 44 7.35	43.051	+ 25.7	3.2	11 44	.....	.. ..	....
	April 4, La.												
3	ε Corvi	11	5 32.85	+ 0.45	−28.30	60 54 7.40	44.261	+1 44.9	2.0	12 5	.....	.. ..	....
4	6 B. Ursæ Minoris. .	9	15 29.82	− 7.11	[−29.41]	310 38 5.20	43.102	−1 7.9	[2.4]	12 14	.....	.. ..	....
5	θ Virginis	11	5 20.35	+ 0.33	−28.35	43 50 7.75	48.138	+ 56.3	2.4	13 4	.....	.. ..	....
6	α Ursæ Minoris s. p.	8	22 42.12	+10.70	[25.94]	307 40 5.90	42.612	−1 15.5	[2.1]	1 22	.....	.. ..	....
7	ζ Virginis	11	30 9.68	+ 0.30	−28.23	38 56 8.18	44.691	+ 47.3	3.2	13 29	.....	.. ..	....
8	Moon II, S	11	41 6.19	+ 0.40	**−28.31**	52 30 7.90	37.277	+1 16.3	**2.3**	13 40 38.28	−62.45	−13 41 1.2	....
9	π Hydræ	11	1 15.13	+ 0.48	−28.38	65 2 7.78	43.329	+2 5.5	1.9	14 0	.....	.. ..	....
10	κ Virginis	11	8 7.70	+ 0.36	−28.26	48 38 8.78	47.828	+1 6.6	2.1	14 7	....	.. ..	....
	April 4, K.												
11	ι Pegasi...........	11	17 59.81	+ 0.14	−28.63	19 28 5.10	44.692	+ 20.6	2.2	21 17	.....	.. ..	....
12	β Aquarii..........	8	26 50.16	+ 0.34	−28.69	44 50 8.40	46.075	+ 57.7	1.8	21 26	.....	.. ..	....
13	ε Pegasi...........	11	39 48.69	+ 0.22	−28.68	29 26 7.08	42.570	+ 32.7	2.7	21 39	.....	.. ..	....
14	Venus I, C.......	6	34 19.70	+ 0.25	**−28.73**	36 42 8.70	46.589	+ 42.8	**3.1**	0 33 51.22	+ 0.42	+ 2 7 48.4	....
15	Venus II.........	5	34 20.54	+ 0.25	**−28.73**	... .	......	....	....	0 33 52.06	− 0.42	.. ..	....
	April 5, K.												
16	Sun I, N.........	11	55 28.18	+ 0.22	**−28.73**	32 34 7.88	36.692	+ 36.6	**3.2**	0 54 59.67	+64.68	+ 6 15 51.1	....
17	Sun II, S........	8	57 37.54	+ 0.22	**−28.73**	33 6 7.12	36.762	+ 37.4	**3.2**	0 57 9.03	−64.68	+ 5 43 46.7	....
18	ζ Persei	9	48 24.15	+ 0.03	−28.78	7 16 5.70	43.620	+ 7.3	4.3	3 47	.....	.. ..	....
19	ε Persei	11	51 42.39	− 0.04	−28.79	359 8 5.08	43.740	− 0.8	3.8	3 51	.....	.. ..	....
	April 9, B.												
20	κ Ophiuchi	11	53 32.96	+ 0.15	−31.88	29 18 7.00	47.838	+ 33.0	2.2	16 53	.....	.. ..	....
21	Uranus C, C	11	2 56.17	+ 0.36	**−32.01**	61 38 6.68	42.608	+1 48.4	**3.1**	17 2 24.52	.....	−22 47 58.6	....
22	η Ophiuchi........	11	5 16.33	+ 0.31	−32.05	54 26	......	....	....	17 4	.....	.. ..	....
23	θ Ophiuchi........	11	20 53.85	+ 0.37	−32.11	62 54 5.92	45.585	+1 54.5	2.7	17 20	.....	.. ..	....
24	Moon II, N	11	59 10.34	+ 0.36	**−32.01**	59 40 7.12	41.773	+1 40.5	**3.1**	17 58 38.69	−66.98	−20 52 50.0	....
25	δ Ursæ Minoris	6	4 46.22	− 3.66	[−32.33]	312 16	......	....	....	18 4	.....	.. ..	....
26	η Serpentis	11	16 45.03	+ 0.22	−31.98	41 46 7.30	44.020	+ 52.6	3.9	18 16	.....	.. ..	....
27	λ Sagittarii	11	22 25.73	+ 0.39	−32.07	64 18 6.52	43.466	+2 1.9	2.5	18 21	.....	.. ..	....
28	ι Aquilæ	11	30 22.96	+ 0.26	−31.96	47 10 5.12	41.455	+1 3.5	4.4	18 29	.....	.. ..	....
29	51 H. Cephei s. p...	10	54 51.69	+ 4.61	[−31.78]	306 4 4.72	47.711	−1 20.4	[2.1]	6 54	.....	.. ..	....
	April 9, Br.												
30	α Aquarii..........	11	0 14.83	+ 0.16	−32.13	39 38 7.88	45.696	+ 48.4	3.6	22 0	.....	.. ..	....
31	ζ Pegasi...........	11	37 4.19	+ 0.10	−32.09	28 32 7.70	43.839	+ 31.7	4.0	22 36	.....	.. ..	....
32	α Pegasi...........	11	0 22.50	+ 0.07	−32.19	24 10 7.40	45.722	+ 26.1	3.5	22 59	.....	.. ..	....
33	Mercury C, C	11	39 29.35	+ 0.19	**−32.19**	43 44 6.65	41.916	+ 55.4	**3.1**	23 38 57.35	− 0.07	− 4 52 52.4	....
34	α Andromedæ	11	3 48.83	− 0.01	32.19	10 18 6.30	45.795	+ 10.6	1.9	0 3	.....	.. ..	....
35	γ Pegasi...........	11	8 40.95	+ 0.07	−32.27	24 12 7.40	46.805	+ 26.0	2.8	0 8	.....	.. ..	....
36	Venus I, C.......	6	57 8.23	+ 0.13	**−32.23**	34 14 7.38	44.606	+ 39.3	**3.1**	0 56 36.13	+ 0.29	+ 4 36 31.2	....
37	Venus II.........	5	57 8.82	+ 0.13	**−32.23**	... .	......	....	....	0 56 36.72	− 0.30	.. ..	....
	April 10, Br.												
38	Sun I, N.........	11	13 48.57	+ 0.11	**−32.23**	30 40 8.48	41.665	+ 34.3	**3.1**	1 13 16.45	+64.73	+ 8 8 18.8	....
39	Sun II, S........	9	15 58.04	+ 0.11	**−32.23**	31 12 8.32	41.370	+ 35.0	**3.1**	1 15 25.92	−64.74	+ 7 36 19.4	....
40	β Arietis	11	49 43.00	+ 0.04	−32.34	18 32 7.40	42.588	+ 19.3	3.1	1 49	.....	.. ..	....
41	α Arietis...........	11	2 8.27	+ 0.02	−32.27	15 52 6.85	42.168	+ 16.4	2.7	2 1	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
1 11 39	29.85	47.7	47.1
4 12 0	29.50	41.2	40.6
12 25	.....	....	40.4
13 17	29.51	41.0	40.6
14 5	29.515	40.2	39.6
21 19	29.60	45.2	45.6
21 41	29.605	46.6	46.8
0 34	29.60	52.8	52.0
5 0 58	29.60	53.8	52.8
3 49	29.53	57.0	56.1
4 17	29.53	57.3	57.2
9 16 50	29.74	44.0	43.0
17 26	29.74	43.4	42.5
18 25	29.75	42.5	41.7
19 5	29.79	42.2	41.7
22 6	29.78	47.5	46.8
22 42	29.785	49.5	48.1
23 5	29.78	50.9	48.7
23 42	29.79	52.4	50.2
0 11	29.78	52.7	50.7
0 53	29.79	52.6	52.0
10 1 16	29.795	53.0	53.0
2 5	29.78	54.3	53.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4.	Bisections at c_1, c_2, c_3, c_4, c_5.
6, 29.	Bisections at c_5, c_4, c_3, c_2, c_1.
8, 16, 17, 24, 38, 39.	Z. D. thread A used.
8, 24.	Bisections at II, III, IV, V, VI.
12, 17, 39, 40.	Bisections at VI, VII.
16.	Bisections at III, IV.
19, 32, 35.	Bisections at II, VI, VII.
28, 34.	Bisections at I, II.
38.	Bisections at I, II, III.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
8	+42 42.9	+14 44.2	...	+57 27.1
14	+ 3.1	....	0.0	+ 3.1
16	+ 4.7	−16 2.1	...	−15 57.4
17	+ 4.8	+16 2.2	...	+16 7.0
21	+ 0.4	....	...	+ 0.4
24	+47 44.1	−15 7.7	...	+32 36.4
33	+ 6.3	....	− 0.6	+ 5.7
36	+ 2.9	....	0.0	+ 2.9
38	+ 4.5	−15 59.7	...	−15 55.2
39	+ 4.6	+15 59.6	...	+16 4.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Ceti	11	57 38.89	+ 0.14	−32.29	35 8 8.45	46.000	+ 40.5	2.6	2 57	.....	.. ..	....
2	ε Tauri	7	23 23.27	+ 0.05	−32.26	19 54 7.40	42.161	+ 20.8	3.2	4 22	.....	.. ..	....
3	α Tauri	11	30 47.55	+ 0.06	−32.30	22 32 7.25	45.332	+ 23.8	3.7	4 30	.....	.. ..	....
4	ζ Ophiuchi	11	32 17.48	+ 0.22	−32.59	49 12 7.30	45.004	+1 8.2	3.5	16 31	.....	.. ..	....
5	κ Ophiuchi	11	53 33.78	+ 0.10	−32.63	29 18 7.22	47.861	+ 33.1	3.0	16 53	.....	.. ..	....
6	Uranus C, C	11	2 52.65	+ 0.30	**−32.64**	61 38 7.52	42.282	+1 48.9	**3.1**	17 2 20.31	.....	−22 47 53.6	....
7	α^1 Herculis	11	10 42.75	+ 0.07	−32.62	24 20 7.08	46.769	+ 26.7	2.4	17 10	.....	.. ..	....
8	ϑ Ophiuchi	11	16 30.95	+ 0.32	−32.75	63 44 6.08	42.205	+1 59.2	3.7	17 15	.....	.. ..	....
9	ϑ Herculis	11	53 25.91	− 0.07	−32.61	1 36 3.75	43.335	+ 1.7	3.1	17 52	.....	.. ..	....
10	δ Ursæ Minoris	8	4 47.22	− 3.68	[−33.01]	312 16 5.15	43.670	−1 4.8	[2.8]	18 4	.....	.. ..	....
11	Moon II, N	11	53 53.05	+ 0.29	**−32.64**	58 14 6.20	43.488	+1 35.7	**2.6**	18 53 20.70	−67.24	−19 27 17.7	....
12	51 H. Cephei S. P	6	54 53.62	+ 4.57	[−34.05]	306 4	......	....	....	6 54	.....	.. ..	....
13	ι Lyræ	11	4 20.16	− 0.06	−32.53	2 54 4.38	46.608	+ 3.1	2.7	19 3	.....	.. ..	....
14	d Sagittarii	11	12 25.04	+ 0.28	−32.76	57 58 6.55	42.222	+1 34.4	2.1	19 11	.....	.. ..	....
15	δ Aquilæ	11	21 4.64	+ 0.14	−32.66	35 56 6.98	42.816	+ 42.9	2.5	19 20	.....	.. ..	....
16	β Cygni	11	27 17.73	0.00	−32.60	11 6 5.68	44.656	+ 11.7	2.3	19 26	.....	.. ..	....
17	κ Aquilæ	9	32 8.15	+ 0.20	−32.64	46 6 6.58	41.360	+1 1.5	3.0	19 31	.....	.. ..	....
	April 10, La.												
18	ζ Pegasi	11	37 4.73	+ 0.11	−32.62	28 32 7.22	43.811	+ 31.7	3.0	22 36	.....	.. ..	....
19	λ Pegasi	7	42 19.12	+ 0.04	−32.78	15 48	......	....	....	22 41	.....	.. ..	....
20	α Pegasi	11	0 23.02	+ 0.08	−32.70	24 10 6.88	45.718	+ 26.1	2.2	22 59	.....	.. ..	....
21	Mercury C, C	11	44 15.80	+ 0.15	**−32.69**	43 16 6.82	45.979	+ 54.6	**2.4**	23 43 43.26	− 0.07	− 4 26 10.4	....
22	α Andromedæ	11	3 49.33	− 0.06	−32.62	10 18 6.55	45.696	+ 10.6	2.1	0 3	.....	.. ..	....
23	γ Pegasi	10	8 41.44	+ 0.02	−32.70	24 12 7.18	46.940	+ 26.1	2.6	0 8	.....	.. ..	....
	April 11, La.												
24	Sun I, S	11	17 29.21	+ 0.02	**−32.72**	30 52 7.95	35.012	+ 34.5	**2.4**	1 16 56.51	+64.75	+ 7 58 26.0	....
25	Sun II, N	11	19 38.72	+ 0.02	**−32.72**	30 20 8.52	34.737	+ 33.8	**2.4**	1 19 6.02	−64.76	+ 8 30 27.4	....
26	α Arietis	11	2 8.76	− 0.04	−32.70	15 52 7.10	41.980	+ 16.4	1.2	2 1	.....	.. ..	....
27	α Ceti	10	57 39.42	+ 0.07	−32.75	35 8 7.55	46.048	+ 40.3	3.2	2 57	.....	.. ..	....
28	η Tauri	11	42 9.55	− 0.01	−32.82	15 4 7.08	41.376	+ 15.4	2.1	3 41	.....	.. ..	....
29	ζ Persei	11	48 28.15	− 0.04	−32.77	7 16 5.85	43.541	+ 7.3	2.4	3 47	.....	.. ..	....
30	α Ophiuchi	11	30 55.61	+ 0.08	[−33.19]	26 12	......	....	....	17 30	.....	.. ..	....
31	δ Ursæ Minoris	11	4 47.64	− 4.23	[−32.56]	312 16 4.42	43.752	−1 5.4	[3.1]	18 4	.....	.. ..	....
32	51 H. Cephei S. P	9	54 52.46	+ 5.22	[−33.92]	306 4 3.48	47.890	−1 21.6	[3.2]	6 54	.....	.. ..	....
33	d Sagittarii	11	12 25.61	+ 0.29	−33.31	57 58 6.38	42.230	+1 35.4	3.2	19 11	.....	.. ..	....
34	δ Aquilæ	11	21 5.23	+ 0.14	−33.22	35 56 6.30	42.859	+ 43.3	3.2	19 20	.....	.. ..	....
35	α Aquilæ	11	46 31.85	+ 0.10	−33.21	30 14	......	....	....	19 45	.....	.. ..	....
36	Moon II	11	48 47.86	+ 0.29	**−33.26**	56 4	......	....	....	19 48 14.89	−67.30	.. ..	....
37	ϑ Aquilæ	11	6 46.45	+ 0.16	−33.26	39 58 7.20	42.139	+ 49.9	2.8	20 6	.....	.. ..	....
38	α^2 Capricorni	11	13 8.39	+ 0.24	−33.31	51 42 5.15	41.336	+1 15.2	3.0	20 12	.....	.. ..	....
	April 11, B.												
39	α Pegasi	11	0 23.53	+ 0.07	−33.18	24 10 6.75	45.812	+ 26.3	4.0	22 59	.....	.. ..	....
40	Mercury II, C	11	49 9.31	+ 0.19	**−33.23**	42 48 7.78	45.872	+ 54.0	**3.8**	23 48 36.27	− 0.23	− 3 58 7.3	....
41	α Andromedæ	11	3 49.95	− 0.06	−33.23	10 18 6.75	45.718	+ 10.6	2.7	0 3	.....	.. ..	....
42	γ Pegasi	11	8 42.04	+ 0.05	−33.31	24 12 7.98	46.909	+ 26.2	4.8	0 8	.....	.. ..	....
43	β Andromedæ	10	4 45.05	− 0.13	−33.23	3 46 6.62	42.492	+ 3.9	3.5	1 4	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
10 3 2	29.77	56.9	53.8
4 34	29.76	56.8	55.0
16 28	29.815	44.5	42.3
17 7	29.81	43.5	41.8
17 23	29.81	43.1	41.4
18 12	29.81	42.2	40.3
18 46	29.82	41.9	40.0
19 36	29.825	42.4	40.1
22 40	29.875	49.0	48.8
23 21	29.88	51.2	50.8
23 49	29.88	52.0	51.2
0 14	29.88	52.9	51.8
11 1 20	29.875	53.9	53.7
2 8	29.86	55.4	55.4
3 0	29.85	57.2	57.0
3 45	29.845	58.0	57.9
17 36	29.94	40.0	38.7
17 59	29.94	39.4	38.4
19 0	29.96	39.4	37.7
19 32	29.965	39.0	37.9
20 11	29.98	41.6	40.3
22 51	30.02	49.2	48.0
23 16	30.015	50.2	49.5
0 11	30.00	53.2	51.5
1 0	29.99	55.0	54.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

I.	Bisections at I, II, VI.
10, 31.	Bisections at c_1, c_2, c_3, c_4, c_5.
11, 24, 25.	Z. D. thread A used.
11.	Bisections at II, III, IV, V, VI.
23.	Bisections at I, II.
24.	Bisections at I, II, III.
25.	Bisections at V, VI, VII.
26, 43.	Bisections at VI, VII.
32.	Bisections at c_5, c_4, c_3, c_2, c_1.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 0.4	....	...	+ 0.4
11	+47 37.0	−15 19.1	...	+32 17.9
21	+ 6.2	....	− 0.5	+ 5.7
24	+ 4.5	+16 0.7	...	+16 5.2
25	+ 4.4	−16 0.6	...	−15 56.2
40	+ 5.9	....	− 0.5	+ 5.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	April 12, B.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, S	11	21 10.03	+ 0.07	**—33.27**	30 26 8.45	47.552	+ 34.1	**4.2**	1 20 36.83	+64.92	+ 8 20 27.2	....
2	Sun II, N........	11	23 19.88	+ 0.07	**—33.27**	29 54 7.00	47.498	+ 33.4	**4.2**	1 22 46.68	—64.93	+ 8 52 25.9	....
3	α Ceti.............	9	57 40.11	+ 0.10	—33.47	35 8 8.50	46.085	+ 40.4	5.0	2 57	.....	.. ..	....
4	η Tauri.............	11	42 10.05	— 0.05	—33.28	15 4 6.12	41.528	+ 15.4	4.8	3 41	.....	.. ..	....
5	ζ Persei...........	11	48 28.66	— 0.11	—33.22	7 16 5.65	43.671	+ 7.3	4.6	3 47	.....	.. ..	....
6	α Tauri.............	11	30 48.65	— 0.01	—33.37	22 32 6.82	45.432	+ 23.8	5.2	4 30	.....	.. ..	....
	April 15, B.												
7	α Pegasi...........	11	0 26.15	+ 0.08	—35.73	24 10 7.45	45.712	+ 25.9	2.5	22 59	.....	.. ..	....
8	Moon II.........	11	31 37.25	+ 0.16	**—35.67**	37 52	......	....	....	23 31 1.74	—68.83	.. ..	....
9	α Andromedæ	11	3 52.35	— 0.01	—35.61	10 18 6.82	45.742	+ 10.5	2.8	0 3	.....	.. ..	....
10	γ Pegasi	11	8 44.46	+ 0.08	—35.70	24 12	......	....	....	0 8	.....	.. ..	....
11	Mercury II, C	11	9 42.94	+ 0.18	**—35.69**	40 44 7.50	42.480	+ 49.2	**3.0**	0 9 7.43	— 0.21	— 1 52 58.0	....
12	β Andromedæ	11	4 47.49	— 0.05	—35.71	3 46 5.05	42.681	+ 3.8	3.0	1 4	.....	.. ..	....
13	Venus I, C.......	6	24 40.40	+ 0.12	**—35.73**	31 18 7.05	37.098	+ 34.7	**3.0**	1 24 4.79	+ 0.43	+ 7 31 45.3	....
14	Venus II.........	5	24 41.26	+ 0.12	**—35.73**	... .	......	....	....	1 24 5.65	— 0.43	.. ..	....
	April 16, B.												
15	Sun I, N	11	35 57.77	+ 0.10	**—35.73**	28 32 7.68	43.757	+ 31.0	**3.0**	1 35 22.14	+65.04	+10 18 53.6	....
16	β Arietis...........	7	49 46.46	+ 0.05	—35.79	18 32 7.45	42.580	+ 19.1	2.5	1 49	.....	.. ..	....
17	α Arietis...........	11	2 11.79	+ 0.03	—35.78	15 52 7.00	42.261	+ 16.2	4.1	2 1	.....	.. ..	....
18	β Trianguli.........	11	4 15.35	— 0.04	—35.67	4 20 5.35	44.392	+ 4.4	3.3	2 3	.....	.. ..	....
19	δ Ursæ Minoris S. P.	11	4 45.72	+ 3.13	[—36.47]	305 30 4.60	41.869	—1 18.6	[2.7]	18 4	.....	.. ..	....
20	μ Geminorum......	11	17 35.64	— 0.03	[—35.87]	16 18 6.55	41.888	+ 16.5	[2.9]	6 16	.....	.. ..	....
21	ν Geminorum	11	23 42.47	— 0.01	[—35.92]	18 34 6.32	46.156	+ 19.0	[3.4]	6 23	.....	.. ..	....
22	51 H. Cephei.......	11	55 2.98	— 3.87	[—37.24]	311 40 5.62	43.940	—1 2.9	[1.7]	6 54	.....	.. ..	....
	April 16, Br.												
23	ζ Pegasi...........	5	37 8.90	+ 0.04	—36.59	28 32 7.05	43.862	+ 31.6	4.0	22 36	.....	.. ..	....
24	α Pegasi...........	11	0 27.16	+ 0.02	—36.66	24 10 7.40	45.734	+ 26.0	3.1	22 59	.....	.. ..	....
25	α Andromedæ	11	3 53.44	— 0.05	—36.65	10 18 5.85	45.811	+ 10.5	3.1	0 3	.....	.. ..	....
26	Mercury C, C	11	15 6.19	+ 0.10	**—36.67**	40 10 6.82	41.501	+ 48.6	**4.0**	0 14 29.62	— 0.05	— 1 18 37.0	....
27	β Andromedæ	11	4 48.55	— 0.09	—36.72	3 46 5.55	42.737	+ 3.8	5.2	1 4	.....	.. ..	....
28	Venus I, C.......	6	29 17.82	+ 0.06	**—36.69**	30 50 6.98	45.159	+ 34.2	**4.4**	1 28 41.19	+ 0.32	+ 8 0 27.4	....
29	Venus II.........	5	29 18.46	+ 0.06	**—36.69**	....	......	....	....	1 28 41.83	— 0.32	.. ..	....
	April 17, Br.												
30	Sun I, S.........	11	39 40.78	+ 0.04	**—36.69**	28 40 7.52	42.273	+ 31.3	**4.5**	1 39 4.13	+65.13	+10 8 12.4	....
31	Sun II, N	11	41 51.05	+ 0.04	**—36.69**	28 8 8.08	42.300	+ 30.7	**4.5**	1 41 14.40	—65.14	+10 40 8.1	....
32	α Ceti.............	11	57 43.35	+ 0.08	—36.70	35 8 7.65	46.164	+ 40.0	5.5	2 57	.....	.. ..	....
33	η Tauri	11	42 13.42	— 0.03	—36.70	15 4 6.60	41.555	+ 15.3	4.6	3 41	.....	.. ..	....
34	ζ Persei...........	11	48 32.07	— 0.07	36.70	7 16 6.20	43.690	+ 7.3	5.0	3 47	.....	.. ..	....
35	γ Tauri	9	14 47.12	+ 0.02	—36.79	23 28 7.42	43.154	+ 24.5	5.0	4 14	.....	.. ..	....
36	ε Tauri	9	23 27.78	0.00	—36.79	19 54 7.22	42.312	+ 20.4	5.4	4 22	.....	.. ..	....
	April 17, K.												
37	6 B. Ursæ Minoris..	7	15 34.73	— 8.22	[—36.41]	310 38	......	....	....	12 14	.....	.. ..	....
38	β Corvi............	11	29 51.14	+ 0.22	[—37.10]	61 40	......	....	....	12 29	.....	.. ..	...
39	θ Virginis	11	5 29.35	+ 0.09	[—37.05]	43 50	......	....	....	13 4	.....	.. ..	....
40	α Ursæ Minoris S. P.	6	22 53.82	+11.69	[—37.59]	307 40	......	....	....	1 22	.....	.. ..	....
	April 25, B.												
41	α Andromedæ	11	13 49.42	— 0.12	—39.32	2 36 4.88	47.804	+ 2.7	4.6	0 13	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
12 1 23	29.98	55.8	54.3
2 55	29.94	59.0	57.0
3 53	29.93	60.4	58.6
4 36	29.94	60.0	59.3
15 22 52	29.84	52.7	53.8
23 37	29.84	55.6	56.4
0 15	29.83	57.4	57.5
1 1	29.83	58.2	59.0
16 1 36	29.82	59.3	59.7
2 9	29.82	60.0	60.6
5 50	29.81	63.2	64.2
6 31	29.82	63.0	64.8
22 31	29.94	53.8	51.7
23 4	29.94	55.0	52.8
23 59	29.95	57.0	54.8
0 21	29.95	58.1	56.5
1 34	29.94	59.6	58.8
17 1 42	29.935	60.2	59.2
3 1	29.915	63.0	62.0
3 53	......	...	62.4
4 26	29.815	65.2	64.2
25 23 53	29.905	61.0	58.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 2, 13, 30, 31.	Z. D. thread A used.
1, 30.	Bisections at I, II, III.
2, 16, 18.	Bisections at VI, VII.
4, 27.	Bisections at II, VI, VII.
15, 31.	Bisections at V, VI, VII.
19.	Bisections at c_5, c_4, c_3, c_2, c_1.
22.	Bisections at c_1, c_2, c_3, c_4, c_5.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 4.5	+15 59.3	...	+16 3.8
2	+ 4.4	—15 59.3	...	—15 54.9
11	+ 5.5	....	— 0.4	+ 5.1
13	+ 2.6	....	0.0	+ 2.6
15	+ 4.2	—15 58.0	...	—15 53.8
26	+ 5.3	....	— 0.4	+ 4.9
28	+ 2.6	....	0.0	+ 2.6
30	+ 4.2	+15 57.8	...	+16 2.0
31	+ 4.1	—15 57.8	...	—15 53.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	′
1	β Ceti	10	39 17.02	+ 0.26	[−39.63]	57 22 7.05	42.798	+1 28.9	5.7	0 38	.....	.. ..	....
2	β Andromedæ	11	4 51.38	− 0.11	−39.39	3 46 5.22	42.809	+ 3.8	4.7	1 4	.....	.. ..	....
3	Mercury II, C.	11	7 58.18	+ 0.07	**−39.42**	34 12 6.70	45.350	+ 38.7	**4.8**	1 7 18.83	− 0.19	+ 4 38 20.0	....
4	β Arietis	11	49 50.35	− 0.01	−39.54	18 32 6.82	42.816	+ 19.0	4.2	1 49	.....	.. ..	....
	April 26, B.												
5	Sun I, S.	11	13 21.73	+ 0.03	**−39.40**	25 36 6.38	46.865	+ 27.2	**4.8**	2 12 42.36	+65.68	+13 10 49.8	....
6	Sun II, N	11	14 33.09	+ 0.03	**−39.40**	25 4 7.10	46.912	+ 26.6	**4.8**	2 13 53.72	−65.68	+13 42 45.0	....
7	η Tauri	11	42 16.16	− 0.05	−39.44	15 4 5.65	41.624	+ 15.2	4.4	3 41	.....	.. ..	....
8	ζ Persei	11	48 34.77	− 0.10	−39.40	7 16 5.32	43.795	+ 7.3	5.2	3 47	.....	.. ..	....
9	ε Persei	11	51 52.85	− 0.15	−39.30	359 8 4.78	43.918	− 0.8	4.1	3 51	.....	.. ..	....
10	γ Tauri	11	14 49.69	− 0.01	−39.38	23 28 7.25	43.196	+ 24.5	5.7	4 14	.....	.. ..	....
11	α Lyncis	11	15 43.41	− 0.24	−39.40	4 2 4.48	46.535	+ 4.1	5.2	9 15	.....	.. ..	....
12	α Hydræ	11	23 24.72	+ 0.02	−39.35	47 4 6.22	45.618	+1 1.3	5.1	9 22	.....	.. ..	....
13	Moon I, N.	11	29 10.05	− 0.08	**−39.40**	29 44 6.58	42.388	+ 32.7	**5.0**	9 28 30.57	+63.62	+ 9 4 8.4	....
14	ο Leonis	11	36 33.72	− 0.09	−39.40	28 30 8.00	45.776	+ 31.1	5.8	9 35	.....	.. ..	....
15	ε Leonis	11	40 55.84	− 0.17	−39.43	14 38 5.58	42.552	+ 15.0	4.4	9 40	.....	.. ..	....
16	Mars I, S.	6	56 25.53	− 0.12	**−39.40**	23 46 7.00	49.638	+ 25.4	**5.0**	9 55 46.01	+ 0.37	+14 59 56.1	....
17	Mars II, N	5	56 26.22	− 0.12	**−39.40**	23 46 7.00	49.060	+ 25.4	**5.0**	9 55 46.70	− 0.32	+15 0 7.1	....
18	α Leonis	11	3 47.78	− 0.10	−39.36	26 24 6.28	44.405	+ 28.5	5.3	10 3	.....	.. ..	....
19	γ¹ Leonis	11	15 12.89	− 0.15	−39.43	18 30 5.38	46.398	+ 19.3	4.4	10 14	.....	.. ..	....
20	6 B. Ursæ Minoris	8	15 33.25	− 7.87	[−38.58]	310 38 4.55	42.942	−1 6.3	[6.5]	12 14	.....	.. ..	....
21	ε Virginis	11	57 57.28	− 0.10	[−39.39]	27 22 6.82	42.984	+ 30.4	[5.1]	12 57	.....	.. ..	....
22	θ Virginis	11	5 31.79	0.00	[−39.38]	43 50 6.18	48.260	+ 56.4	[3.1]	13 4	.....	.. ..	....
23	α Ursæ Minoris S. P.	8	22 58.22	+11.01	[−38.35]	307 40 4.02	42.471	−1 15.8	[3.9]	1 22	.....	.. ..	....
	April 27, Br.												
24	ο Leonis	11	36 34.00	− 0.07	−39.71	28 30 7.02	45.810	+ 31.4	5.7	9 35	.....	.. ..	....
25	ε Leonis	11	40 56.11	− 0.16	−39.72	14 38 5.65	42.578	+ 15.2	5.2	9 40	.....	.. ..	....
26	Mars I, C.	6	57 18.40	− 0.10	**−39.70**	23 58 6.68	43.329	+ 25.8	**5.2**	9 56 38.60	+ 0.38	+14 53 11.9	....
27	Mars II	5	57 19.10	− 0.10	**−39.70**	... .	......	....	....	9 56 39.30	− 0.32	.. ..	....
28	α Leonis	11	3 48.08	− 0.09	−39.68	26 24 6.82	44.369	+ 28.8	5.4	10 3	.....	.. ..	....
29	Moon I, N.	11	17 27.53	− 0.04	**−39.70**	34 0 7.75	41.722	+ 39.2	**5.2**	10 16 47.79	+62.28	+ 4 48 13.7	....
30	ρ Leonis	11	28 18.09	− 0.07	−39.67	29 2 6.60	44.529	+ 32.3	4.6	10 27	.....	.. ..	....
31	π Virginis	11	56 30.49	− 0.06	−39.72	31 40 6.82	47.451	+ 36.0	[5.0]	11 55	.....	.. ..	....
32	ο Virginis	11	0 52.54	0.07	−39.75	29 34 6.32	44.480	+ 33.1	[4.4]	12 0	.....	.. ..	....
33	6 B. Ursæ Minoris	8	15 36.00	− 7.84	[−41.86]	310 38 4.02	42.932	−1 7.5	[4.9]	12 14	.....	.. ..	....
34	θ Virginis	11	5 32.09	+ 0.02	−39.70	43 50 6.12	48.378	+ 56.0	[4.8]	13 4	.....	.. ..	....
35	α Ursæ Minoris S. P.	8	22 56.59	+10.96	[−36.41]	307 40 4.55	42.457	−1 15.2	[5.0]	1 22	.....	.. ..	....
36	m Virginis	11	37 7.70	− 0.06	−39.63	47 2 7.28	46.585	+1 2.7	[4.9]	13 36	.....	.. ..	....
	April 28, B.												
37	41 Leonis Minoris	11	38 44.40	− 0.28	−39.59	15 8 5.28	46.950	+ 15.6	3.8	10 38	.....	.. ..	....
38	l Leonis	11	44 45.75	− 0.18	−39.85	27 46 5.95	47.226	+ 30.3	4.6	10 44	.....	.. ..	....
39	Moon I, N.	11	4 14.18	− 0.09	**−39.69**	38 22 6.20	48.040	+ 45.7	**4.5**	11 3 34.40	+61.48	+ 0 24 6.9	....
40	δ Crateris	11	15 5.77	− 0.03	−39.66	53 4 4.38	47.480	+1 16.5	4.8	11 14	.....	.. ..	....
41	τ Leonis	11	23 33.16	− 0.12	−39.65	35 26 5.72	46.969	+ 41.0	4.9	11 22	.....	.. ..	....
42	6 B. Ursæ Minoris	8	15 36.75	−11.64	[−39.21]	310 38 5.30	42.799	−1 7.2	[4.1]	12 14	.....	.. ..	....
43	ε Virginis	11	57 57.57	− 0.18	−39.61	27 22 6.10	43.021	+ 30.1	[4.9]	12 57	.....	.. ..	....
44	θ Virginis	11	5 32.20	− 0.05	−39.74	43 52 5.50	42.118	+ 55.8	[4.0]	13 4	.....	.. ..	....
45	α Ursæ Minoris S. P.	8	22 56.18	+16.24	[−40.99]	307 40 4.02	42.436	−1 14.9	[4.6]	1 22	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
25 0 41	29.90	60.4	59.4
1 53	29.895	62.8	62.6
26 2 15	29.895	63.3	63.4
3 36	29.895	64.4	64.6
4 18	29.895	68.0	65.2
9 8	29.95	61.8	60.8
9 45	29.96	60.0	59.2
10 18	29.975	58.8	57.5
12 2	30.035	52.5	49.8
12 51	30.05	51.0	48.6
13 27	30.07	49.8	47.4
27 9 30	30.17	57.9	57.4
9 49	30.17	57.0	56.8
10 31	30.18	55.0	55.6
11 50	30.185	53.5	54.0
12 26	30.185	52.9	54.7
13 42	30.19	52.0	52.6
28 10 34	30.22	61.2	61.6
10 57	30.22	60.6	61.4
11 26	30.215	59.4	60.0
12 5	30.205	57.2	57.2
12 47	30.19	56.3	56.0
13 27	30.19	55.0	55.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 6, 13, 16, 17, 29, 39.	Z. D. thread A used.
5.	Bisections at I, II, III.
6.	Bisections at V, VI, VII.
9.	Bisections at II, VI, VII.
13, 29.	Bisections at III, IV, V.
16.	Bisections at II, VI.
17.	Bisections at I, VII.
20, 33, 42.	Bisections at c_1, c_2, c_3, c_4, c_5.
23, 35, 45.	Bisections at c_5, c_4, c_3, c_2, c_1.
39.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 4.1	....	− 0.3	+ 3.8
5	+ 3.8	+15 57.6	...	+16 1.4
6	+ 3.7	−15 57.5	...	−15 53.8
13	+27 28.3	−15 10.6	...	+12 17.7
16	+ 3.5	+ 5.6	− 0.2	+ 8.9
17	+ 3.5	− 5.6	...	− 2.1
26	+ 3.6	....	− 0.1	+ 3.5
29	+30 39.0	−15 0.8	...	+15 38.2
39	+33 46.6	−14 53.5	...	+18 53.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	April 28, La.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Andromedæ	11	3 50.72	− 0.14	−33.59	10 18 5.90	45.859	+ 10.5	3.7	0 3	.....	.. ..	....
2	β Andromedæ	11	4 45.60	− 0.19	−33.48	3 46 6.68	42.768	+ 3.8	5.2	1 4	.....	.. ..	....
3	Mercury C, C	11	27 24.16	− 0.03	**−33.53**	31 56 7.08	48.079	+ 35.3	**4.8**	1 26 50.60	− 0.02	+ 6 53 30.6	....
	April 29, La.												
4	Sun I	11	24 36.59	− 0.08	**−33.52**	24 26	......	....	....	2 24 2.99	+65.97	.. ..	....
5	Sun II	11	26 48.54	− 0.08	**−33.52**	... .	......	....	....	2 26 14.94	−65.98	.. ..	....
6	ζ Persei	10	48 29.00	0.21	−33.53	7 16 5.22	43.858	+ 7.2	6.0	3 47	.....	.. ..	....
7	α Tauri	11	30 48.80	− 0.12	−33.52	22 32 6.45	45.516	+ 23.2	5.7	4 30	.....	.. ..	....
8	ι Aurigæ	11	51 7.43	− 0.23	−33.46	5 50 5.60	46.516	+ 5.8	6.3	4 50	.....	.. ..	....
9	β Orionis	11	10 20.85	+ 0.02	−33.48	47 10 6.52	42.650	+1 0.0	6.4	5 9	.....	.. ..	....
10	π Leonis	11	55 34.65	− 0.09	−33.41	30 20 5.12	44.068	+ 33.1	6.5	9 55	.....	.. ..	....
11	Mars I, C	5	59 3.06	− 0.12	**−33.38**	24 12 5.42	43.874	+ 25.5	**6.3**	9 58 29.56	+ 0.48	+14 39 4.2	....
12	Mars II	6	59 3.95	− 0.12	**−33.38**	... .	......	....	....	9 58 30.45	− 0.48	.. ..	....
13	α Leonis	11	3 41.72	− 0.11	−33.33	26 24 5.35	44.540	+ 28.1	6.6	10 3	.....	.. ..	....
14	γ^1 Leonis	11	15 6.84	− 0.16	−33.41	18 30 3.55	46.562	+ 19.0	5.6	10 14	.....	.. ..	....
15	ρ Leonis	11	28 11.78	− 0.10	−33.36	29 2 4.72	44.744	+ 31.5	6.2	10 27	.....	.. ..	....
16	υ Leonis	11	32 28.84	− 0.05	−33.34	39 8 6.38	42.784	+ 46.4	6.8	11 31	.....	.. ..	....
17	β Leonis	11	44 36.78	− 0.13	−33.36	23 44 4.92	43.239	+ 25.1	6.4	11 44	.....	.. ..	....
18	Moon I, N	11	50 14.16	− 0.03	**−33.37**	42 48 0.48	36.816	+ 52.8	**6.3**	11 49 40.76	+61.24	− 3 58 17.4	....
19	π Virginis	11	56 24.20	− 0.09	−33.41	31 40 5.38	47.619	+ 35.3	6.2	11 55	.....	.. ..	....
20	ο Virginis	11	0 46.18	− 0.10	−33.37	29 34 5.90	44.610	+ 32.4	5.9	12 0	.....	.. ..	....
	April 29, K.												
21	6 B. Ursæ Minoris ..	5	15 26.44	− 8.83	[−32.21]	310 38	......	....	....	12 14	.....	.. ..	....
22	δ^2 Corvi	11	25 20.86	+ 0.03	[−33.42]	54 48	......	....	....	12 24	.....	.. ..	....
23	α Virginis	11	20 34.99	− 0.01	[−33.26]	49 28	......	....	....	13 20	.....	.. ..	....
24	α Ursæ Minoris S. P.	4	22 54.72	+12.23	[−35.19]	307 40	......	....	....	1 22	.....	.. ..	....
	April 29, B.												
25	α Andromedæ	11	3 50.28	− 0.20	−33.07	10 18 5.42	46.035	+ 10.3	6.3	0 3	.....	.. ..	....
26	γ Pegasi	11	8 42.28	− 0.12	−33.07	24 12 5.60	47.164	+ 25.3	7.0	0 8	.....	.. ..	....
27	β Andromedæ	11	4 45.25	− 0.27	−33.03	3 46 4.90	42.978	+ 3.7	7.3	1 4	.....	.. ..	....
28	α Ursæ Minoris	8	23 17.15	−11.46	[−33.74]	310 6 4.48	43.230	−1 5.7	[5.0]	1 22	.....	.. ..	....
29	Mercury I, C	6	34 8.92	− 0.10	**−33.03**	31 10 6.02	46.919	+ 33.6	**7.4**	1 33 35.79	+ 0.15	+ 7 39 58.2	....
30	Mercury II	5	34 9.26	− 0.10	**−33.03**	... .	......	....	....	1 33 36.13	− 0.19	.. ..	....
	April 30, B.												
31	Sun I, S	11	28 24.27	− 0.17	**−33.01**	24 20 6.92	48.082	+ 25.0	**7.8**	2 27 51.09	+65.93	+14 26 31.6	....
32	Sun II, N	11	30 36.13	− 0.17	**−33.01**	23 48 7.40	48.428	+ 24.4	**7.8**	2 30 2.95	−65.93	+14 58 20.8	....
33	η Tauri	11	42 9.95	− 0.28	−33.01	15 4 4.25	41.909	+ 14.7	7.8	3 41	.....	.. ..	....
34	α Tauri	11	30 48.35	− 0.25	−32.94	22 32 4.40	45.835	+ 22.7	9.2	4 30	.....	.. ..	....
35	ε Leonis	11	40 49.43	− 0.27	−32.98	14 38 2.42	42.964	+ 14.4	8.8	9 40	.....	.. ..	....
36	μ Leonis	11	47 43.65	− 0.28	−33.09	12 23 54.50	41.600	+ 12.2	9.3	9 47	.....	.. ..	....
37	Mars I, C	5	0 1.08	− 0.20	**−33.05**	24 18 3.72	48.145	+ 25.0	**9.0**	9 59 27.83	+ 0.41	+14 31 47.2	....
38	Mars II	6	0 1.83	− 0.20	**−33.05**	... .	......	....	....	9 59 28.58	− 0.34	.. ..	....
39	α Leonis	11	3 41.45	− 0.19	−32.99	26 24 4.30	44.751	+ 27.5	9.1	10 3	.....	.. ..	....
40	γ^1 Leonis	11	15 6.62	− 0.24	−33.12	18 30 3.15	46.855	+ 18.6	8.6	10 14	.....	.. ..	....
41	η Virginis	11	15 26.38	− 0.10	−33.01	38 58 3.45	44.260	+ 45.0	9.4	12 14	.....	.. ..	....
42	δ^2 Corvi	11	25 20.59	+ 0.01	−33.13	54 48 3.40	45.175	+1 18.8	8.4	12 24	.....	.. ..	....
43	Moon I	11	36 26.00	− 0.05	**−33.09**	47 14	......	....	....	12 35 52 86	+61.49	.. ..	....
44	ε Virginis	11	57 51.04	− 0.18	−33.08	27 22 4.88	43.391	+ 28.8	9.7	12 57	.....	.. ..	....
45	θ Virginis	11	5 25.63	− 0.07	−33.15	43 50 4.70	48.804	+ 53.4	9.1	13 4	.....	.. ..	....
46	α Ursæ Minoris S. P.	6	22 44.42	+12.94	[−35.19]	307 40 2.12	42.507	−1 11.9	[7.8]	1 22	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
28	0	12	30.21	64.2	63.8
	1	8	30.205	67.2	67.0
	1	20	30.20	68.2	68.3
29	2	27	30.190	70.3	71.8
	3	46	30.17	73.8	74.8
	4	34	30.155	76.3	76.2
	5	5	30.15	75.6	76.1
	9	54	......	....	67.2
	10	10	30.10	68.5	66.6
	10	31	30.095	68.0	65.8
	11	35	30.09	65.2	63.3
	12	4	30.085	64.0	62.3
	0	2	30.005	68.5	68.7
	0	34	30.00	71.5	71.0
	1	10	29.995	73.5	73.0
	1	37	29.99	76.0	76.0
30	2	31	29.96	77.9	79.8
	3	34	29.93	78.8	82.0
	4	25	29.92	83.0	83.3
	9	35	29.79	75.6	75.2
	10	18	29.79	73.8	73.6
	12	7	29.785	69.8	70.0
	13	1	29.78	70.0	70.8
	13	28	29.775	68.8	68.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

18, 31, 32. Z. D. thread A used.
18. Bisections at II, III, IV, V, VI.
28. Bisections at c_1, c_2, c_3, c_4, c_5.
31, 40. Bisections at I, II.
32. Bisections at V, VI, VII.
36. Bisections at II, VI, VII.
42. Bisections at VI, VII.
46. Bisections at c_5, c_4, c_3, c_2, c_1.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 3.8	....	− 0.2	+ 3.6
11	+ 3.5	....	0.0	+ 3.5
18	+36 43.5	−14 48.3	...	+21 55.2
29	+ 3.7	....	− 0.2	+ 3.5
31	+ 3.6	+15 54.6	...	+15 58.2
32	+ 3.5	−15 54.5	...	−15 51.0
37	+ 3.5	....	0.0	+ 3.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	May 2, B.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Andromedæ	11	3 51.06	− 0.23	−33.75	10 18 5.10	46.062	+ 10.2	6.5	0 3	.....	.. ..	....
2	γ Pegasi...........	11	8 43.08	− 0.16	−33.77	24 12 6.00	47.172	+ 25.2	7.7	0 8	.....	.. ..	....
3	β Andromedæ	11	4 45.97	− 0.27	−33.69	3 46 5.25	42.990	+ 3.7	7.7	1 4	.....	.. ..	....
4	β Arietis	11	49 44.90	− 0.19	−33.82	18 32 5.30	43.074	+ 18.8	7.4	1 49	.....	.. ..	....
5	Mercury I, C.....	5	55 12.64	− 0.14	**−33.77**	28 48 6.30	45.290	+ 30.8	**7.6**	1 54 38.73	+ 0.24	+10 2 32.2	....
6	Mercury II	6	55 13.17	− 0.14	**−33.77**	... .	......	....	....	1 54 39.26	− 0.29	.. ..	....
	May 3, B.												
7	Sun I, N.........	11	39 52.06	− 0.16	**−33.78**	22 54 6.75	48.087	+ 23.8	**7.6**	2 39 18.12	+66.18	+15 52 32.2	....
8	Sun II, S........	11	42 4.42	− 0.16	**−33.78**	23 26 5.90	47.370	+ 24.4	**7.6**	2 41 30.48	−66.18	+15 20 42.4	....
9	η Tauri	11	42 10.70	− 0.21	−33.82	15 4 5.12	41.832	+ 15.1	7.5	3 41	.....	.. ..	....
10	ζ Persei...........	11	48 29.32	− 0.25	−33.80	7 16 3.75	44.051	+ 7.2	8.0	3 47	.....	.. ..	....
11	ε Persei...........	11	51 47.42	− 0.31	−33.71	359 8 4.18	44.229	− 0.8	7.9	3 51	.....	.. ..	....
12	ε Tauri	11	23 24.93	− 0.18	−33.83	19 54 5.32	42.556	+ 20.3	7.8	4 22	.....	.. ..	....
13	α² Libræ..........	11	46 1.56	+ 0.02	−34.18	54 28 6.20	44.342	+1 20.5	5.5	14 45	.....	.. ..	....
14	γ Scorpii	11	58 54.13	+ 0.07	−34.11	63 42 4.42	47.969	+1 56.3	5.5	14 58	.....	.. ..	....
15	Moon II, S	11	3 37.03	+ 0.04	**−34.13**	57 24 4.02	44.567	+1 30.2	**5.4**	15 3 2.94	−64.19	−18 37 27.9	....
16	β Libræ...........	11	12 18.07	− 0.01	−34.08	47 52 4.72	42.778	+1 3.7	4.9	15 11	.....	.. ..	....
17	α Serpentis........	11	40 0.72	− 0.08	−34.16	32 6 4.75	46.439	+ 36.2	5.7	15 39	.....	.. ..	....
18	α Scorpii	11	23 57.82	+ 0.08	−34.13	65 2 5.00	44.558	+2 4.0	6.0	16 23	.....	.. ..	....
19	ζ Ophiuchi...	11	32 19.68	0.00	−34.08	49 12 4.48	45.216	+1 7.2	4.4	16 31	.....	.. ..	....
20	Uranus C, C	11	0 26.75	+ 0.06	**−34.12**	61 34 4.35	44.931	+1 47.1	**4.5**	16 59 52.69	.....	−22 44 38.1	....
21	η Ophiuchi........	11	5 19.31	+ 0.02	−34.14	54 26 4.48	44.702	+1 21.2	3.3	17 4	.....	.. ..	....
22	θ Ophiuchi........	11	16 33.20	+ 0.07	−34.14	63 44 4.70	42.408	+1 57.5	4.2	17 15	.....	.. ..	....
	May 3, Br.												
23	μ Andromedæ	11	51 50.66	− 0.27	−34.18	0 54 4.02	43.078	+ 1.0	5.1	0 51	.....	.. ..	....
24	β Andromedæ	11	4 46.53	− 0.26	−34.24	3 46 4.10	42.946	+ 3.8	5.7	1 4	.....	.. ..	....
25	β Arietis	9	49 45.32	− 0.20	−34.22	18 32 6.20	42.958	+ 19.1	5.6	1 49	.....	.. ..	....
26	Mercury I, C	6	2 30.88	− 0.16	**−34.22**	28 0 6.85	44.094	+ 30.2	**5.6**	2 1 56.50	+ 0.20	+10 50 53.1	....
27	Mercury II	5	2 31.30	− 0.16	**−34.22**	... .	......	....	....	2 1 56.92	− 0.22	.. ..	....
	May 4, Br.												
28	Sun I, N	11	43 42.55	− 0.18	**−34.23**	22 38 7.05	43.100	+ 23.7	**5.8**	2 43 8.14	+66.30	+16 10 5.8	....
29	Sun II, S........	11	45 55.16	− 0.18	**−34.23**	23 10 6.30	42.252	+ 24.3	**5.8**	2 45 20.75	−66.31	+15 38 18.5	....
30	α Tauri	11	30 49.62	− 0.18	−34.29	22 32 7.12	45.481	+ 23.4	5.9	4 30	.....	.. ..	....
31	ι Aurigæ..........	11	51 8.17	− 0.25	−34.21	5 50 4.40	46.574	+ 5.8	5.8	4 50	.....	.. ..	....
32	β Eridani	11	3 33.93	− 0.09	−34.27	44 4 6.60	42.559	+ 54.4	6.4	5 2	.....	.. ..	....
33	β Orionis..........	11	10 21.68	− 0.08	−34.25	47 10 6.25	42.614	+1 0.6	6.7	5 9	.....	.. ..	....
34	β Tauri	11	20 37.49	− 0.23	−34.22	10 20 4.88	43.690	+ 10.3	6.1	5 20	.....	.. ..	....
35	ε Serpentis........	11	46 30.44	− 0.08	−34.50	34 4 5.82	45.259	+ 38.6	6.4	15 45	.....	.. ..	....
36	Moon II, S	11	55 7.55	+ 0.04	**−34.47**	59 20 4.35	43.963	+1 36.1	**6.1**	15 54 33.12	−65.26	−20 33 21.8	....
37	β¹ Scorpii..........	11	0 18.65	+ 0.03	−34.47	58 22 4.00	44.331	+1 32.4	6.5	15 59	.....	.. ..	....
38	δ Ophiuchi........	11	9 47.05	− 0.05	−34.46	42 16 4.72	47.336	+ 51.9	5.5	16 9	.....	.. ..	....
39	κ Ophiuchi........	11	53 36.33	− 0.10	−34.46	29 18 5.18	47.979	+ 32.1	5.3	16 53	.....	.. ..	....
40	Uranus C, C	11	0 18.73	+ 0.05	**−34.45**	61 34 5.05	44.564	+1 45.2	**5.5**	16 59 44.33	.....	−22 44 28.8	....
41	η Ophiuchi.... ...	11	5 19.65	+ 0.01	−34.45	54 26 4.12	44.926	+1 19.8	5.8	17 4	.....	.. ..	....
42	α¹ Herculis.........	11	10 45.24	− 0.13	−34.36	24 20 5.00	46.886	+ 25.9	5.2	17 10	.....	.. ..	....
43	θ Ophiuchi........	11	16 33.61	+ 0.06	−34.51	63 44 4.08	42.624	+1 55.3	5.6	17 15	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
2	23	55	29.66	66.2	65.0
	0	18	29.665	66.0	64.6
	1	0	29.67	67.0	65.2
	1	41	29.70	67.0	65.2
	1	57	29.705	67.0	65.3
3	2	42	29.725	67.3	65.2
	3	36	29.73	67.8	67.0
	3	58	29.74	69.0	67.2
	4	26	29.75	70.2	67.3
	14	43	29.89	56.0	54.8
	15	43	29.89	55.0	53.6
	16	22	29.90	53.8	51.8
	16	54	29.90	52.8	50.2
	17	18	29.91	52.0	49.8
	0	46	29.97	61.0	59.9
	1	8	29.97	61.9	60.4
	1	54	29.95	63.8	62.2
	2	7	29.945	64.0	62.7
4	2	46	29.93	64.8	64.0
	4	33	29.90	68.2	66.3
	4	55	29.895	69.1	66.4
	5	23	29.88	68.5	67.3
	15	41	29.78	58.9	58.1
	16	14	29.77	58.4	57.3
	16	49	29.765	57.9	57.0
	17	19	29.76	57.7	56.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7, 8, 15, 28, 29, 36.	Z. D. thread A used.
7, 28.	Bisections at I, II, III.
8, 29.	Bisections at V, VI, VII.
15, 36.	Bisections at II, III, IV, V, VI.
25.	Bisections at I, II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 3.4	....	− 0.1	+ 3.3
7	+ 3.4	−15 54.8	...	−15 51.4
8	+ 3.5	+15 54.9	...	+15 58.4
15	+45 31.0	+14 46.8	...	+60 17.8
20	+ 0.4	....	...	+ 0.4
26	+ 3.2	....	0.1	+ 3.1
28	+ 3.4	−15 53.6	...	−15 50.2
29	+ 3.4	+15 53.7	...	+15 57.1
36	+46 39.5	+14 50.2	...	+61 29.7
40	+ 0.4	....	...	+ 0.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	May 5, B.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Scorpii..........	11	23 58.66	− 0.07	−34.68	65 2 3.78	44.791	+2 0.7	5.9	16 23	.....	.. ..	....
2	ζ Ophiuchi........	11	32 20.31	− 0.16	−34.52	49 12 3.25	45.400	+1 5.4	5.0	16 31	.....	.. ..	....
3	Moon II, S	11	48 3.11	− 0.10	**−34.58**	60 20 3.78	44.317	+1 39.3	**5.0**	16 47 28.43	−66.09	−21 33 32.4	....
4	Uranus C, C......	11	0 10.52	− 0.09	**−34.58**	61 34 2.98	44.049	+1 44.4	**5.0**	16 59 35.85	.....	−22 44 16.6	....
5	η Ophiuchi........	11	5 19.90	− 0.13	−34.54	54 26 2.68	44.969	+1 19.3	4.7	17 4	.....	.. ..	....
6	θ Ophiuchi........	11	16 33.84	− 0.08	−34.58	63 44 3.08	42.650	+1 54.9	4.6	17 15	.....	.. ..	....
7	δ Ursæ Minoris....	7	4 55.33	− 4.36	[−33.18]	312 16	......	....	....	18 4	.....	.. ..	....
8	ι Aquilæ..........	11	30 26.68	− 0.17	−34.53	47 10 2.05	41.492	+1 2.1	4.6	18 29	.....	.. ..	....
9	σ Sagittarii.......	11	49 45.37	− 0.07	−34.68	65 14 2.90	45.208	+2 4.6	2.5	18 49	.....	.. ..	....
10	51 H. Cephei S. P....	5	54 45.16	+ 4.76	[−35.41]	306 4	......	....	....	6 54	.....	.. ..	....
11	Jupiter I..........	6	57 2.15	− 0.09	**−34.56**	61 26	......	....	....	18 56 27.50	+ 1.66	.. ..	....
12	Jupiter II........	5	57 5.46	− 0.09	**−34.56**	... .	......	....	....	18 56 30.81	− 1.65	.. ..	....
13	ζ Aquilæ..........	11	1 28.75	− 0.28	−34.48	25 8	......	....	....	19 0	.....	.. ..	....
14	Saturn I, N	6	11 2.93	− 0.10	**−34.56**	60 42 2.58	44.628	+1 43.0	**3.4**	19 10 28.27	+ 0.67	−21 55 42.2	....
15	Saturn II, S......	5	11 4.26	− 0.10	**−34.56**	60 42 2.58	45.650	+1 43.0	**3.4**	19 10 29.60	− 0.66	−21 56 1.9	....
16	δ Aquilæ..........	11	21 7.62	− 0.22	−34.56	35 56 1.90	43.015	+ 41.9	3.1	19 20	.....	.. ..	....
	May 6, La.												
17	ζ Ophiuchi........	11	32 20.64	− 0.04	−34.95	49 12 5.28	45.101	+1 7.0	3.0	16 31	.....	.. ..	....
18	Uranus C, C......	11	0 2.32	+ 0.03	**−35.02**	61 34 5.52	43.148	+1 46.7	**3.1**	16 59 27.33	.....	−22 44 6.0	....
19	η Ophiuchi........	11	5 20.28	− 0.01	−35.02	54 26 4.95	44.710	+1 20.9	3.7	17 4	.....	.. ..	....
20	θ Ophiuchi........	11	16 34.25	+ 0.04	−35.08	63 44 5.98	42.301	+1 57.0	2.8	17 15	.....	.. ..	....
21	b Ophiuchi........	11	20 57.95	+ 0.04	−35.16	62 54 5.28	45.698	+1 52.9	2.4	17 20	.....	.. ..	....
22	Moon II, N........	11	41 56.15	+ 0.02	**−35.04**	59 50 4.80	40.018	+1 39.7	**3.1**	17 41 21.13	−66.59	−21 2 13.2	....
23	δ Ursæ Minoris....	8	4 56.22	− 3.35	[−34.89]	312 16 4.30	43.475	−1 3.5	[4.7]	18 4	.....	.. ..	....
24	ι Aquilæ..........	7	30 27.01	− 0.04	−34.95	47 10 5.00	41.297	+1 2.5	3.5	18 29	.....	.. ..	....
	May 11, Br.												
25	α Aquarii..........	11	1 20.09	− 0.08	−36.30	39 38 6.70	45.661	+ 47.1	4.6	22 0	.....	.. ..	....
26	Moon II, N	11	11 29.65	− 0.05	**−36.29**	45 0 6.32	39.166	+ 56.9	**5.7**	22 10 53.31	−66.59	− 6 11 13.0	....
27	γ Aquarii..........	11	17 10.60	− 0.07	−36.29	40 44 6.02	42.910	+ 48.9	6.3	22 16	.....	.. ..	....
28	η Aquarii..........	11	30 54.08	− 0.08	−36.26	39 28 7.65	44.474	+ 46.7	5.4	22 30	.....	.. ..	....
29	ζ Pegasi...........	10	37 9.46	− 0.12	−36.33	28 32 6.50	43.930	+ 30.8	6.6	22 36	.....	.. ..	....
	May 12, La.												
30	β Ceti.............	11	39 14.85	− 0.06	−36.80	57 22 6.58	42.728	+1 28.6	7.5	0 38	.....	.. ..	....
31	μ Andromedæ	9	51 53.37	− 0.30	−36.63	0 54 5.18	43.181	+ 0.9	7.8	0 51	.....	.. ..	....
32	β Andromedæ	11	4 49.19	− 0.28	−36.68	3 46 6.02	42.932	+ 3.8	7.0	1 4	.....	.. ..	....
33	α Arietis	11	2 13.36	− 0.27	−36.75	15 52 7.15	42.371	+ 16.1	5.6	2 1	.....	.. ..	....
	May 13, La.												
34	Sun I, S	11	18 41.74	− 0.29	**−36.69**	20 46 6.52	37.515	+ 21.4	**6.9**	3 18 4.76	+67.00	+18 3 56.8	....
35	Sun II, N.........	11	20 55.74	− 0.29	**−36.69**	20 14 5.68	38.022	+ 20.8	**6.9**	3 20 18.76	−67.00	+18 35 44.8	....
36	Venus I, C........	6	33 56.87	− 0.28	**−36.68**	20 2 6.50	48.410	+ 20.6	**6.9**	3 33 19.91	+ 0.39	+18 47 41.5	....
37	Venus II	5	33 57.64	− 0.28	**−36.68**	... .	......	....	....	3 33 20.68	− 0.38	.. ..	....
38	α Tauri............	11	30 52.06	− 0.25	−36.65	22 32 3.08	45.788	+ 23.3	6.8	4 30	.....	.. ..	....
39	ι Aurigæ..........	11	51 10.65	− 0.32	−36.63	5 50 3.60	46.714	+ 5.8	7.0	4 50	.....	.. ..	....
40	β Orionis..........	10	10 24.10	− 0.12	−36.66	47 10 5.55	42.638	+1 0.4	7.4	5 9	.....	.. ..	....
41	β Tauri............	11	20 40.00	− 0.28	−36.72	10 20 5.50	43.680	+ 10.3	6.0	5 20	.....	.. ..	....
	May 13, B.												
42	Moon II.........	11	1 50.11	− 0.13	**−36.80**	34 56	......	....	....	0 1 13.18	−68.42	.. ..	....
43	α Andromedæ	11	3 54.39	− 0.24	−36.78	10 18 5.35	45.962	+ 10.4	5.4	0 3	.....	.. ..	....
44	γ Pegasi...........	11	8 46.45	− 0.18	−36.85	24 12 6.98	46.945	+ 25.6	5.6	0 8	.... .	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
5 16 16	29.625	62.1	61.0
16 53	29.625	60.8	58.5
17 21	29.625	59.0	55.8
18 1	29.640	56.2	52.5
18 36	29.64	53.5	50.2
19 25	29.65	51.3	48.3
6 16 30	29.68	51.6	48.7
17 8	29.68	50.8	48.4
17 35	29.67	50.2	48.0
18 0	29.67	49.8	47.7
18 38	29.66	49.8	47.5
11 21 52	29.645	57.8	56.2
22 21	29.655	59.0	58.0
22 41	29.66	60.0	59.1
12 0 47	29.665	60.2	57.6
1 12	29.68	61.0	58.1
2 6	29.68	62.7	60.4
13 3 21	29.675	63.7	63.0
3 39	29.68	63.8	62.8
4 35	29.68	65.3	64.3
5 15	29.68	66.8	65.0
23 46	29.94	60.2	62.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 14, 15, 22, 26, 34, 35.	Z. D. thread A used.
3, 22, 26.	Bisections at II, III, IV, V, VI.
14.	Bisections at I, VII.
15.	Bisections at II, VI.
23.	Bisections at c_1, c_2, c_3, c_4, c_5.
24, 38.	Bisections at I, II, VI.
34.	Bisections at I, II, III.
35.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+47 24.0	+14 55.2	...	+62 19.2
4	+ 0.4	....	...	+ 0.4
14	+ 0.8	− 9.8	...	− 9.0
15	+ 0.8	+ 9.9	...	+ 10.7
18	+ 0.4	....	...	+ 0.4
22	+47 29.6	−15 1.7	...	+32 27.9
26	+41 14.3	−15 57.9	...	+25 16.4
34	+ 3.1	+15 53.9	...	+15 57.0
35	+ 3.0	−15 54.0	...	−15 51.0
36	+ 1.7	....	0.0	+ 1.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	σ Andromedæ	11	13 47.49	− 0.28	−36.77	2 36 3.78	47.906	+ 2.6	5.0	0 13	.....	.. ..	....
2	β Andromedæ	11	4 49.38	− 0.28	−36.84	3 46 5.10	42.959	+ 3.8	6.6	1 4	.....	.. ..	....
	May 14, B.												
3	Sun I, N.........	11	22 37.88	− 0.20	**−36.88**	19 56 6.72	48.609	+ 20.5	**6.5**	3 22 0.80	+67.06	+18 50 24.4	....
4	Sun II, S.........	11	24 52.00	− 0.20	**−36.88**	20 28 6.35	47.452	+ 21.1	**6.5**	3 24 14.92	−67.06	+18 18 42.6	....
5	Venus I, C.......	6	38 58.67	− 0.20	**−36.88**	19 44 7.30	43.594	+ 20.2	**6.5**	3 38 21.59	+ 0.42	+19 7 13.1	....
6	Venus II.........	5	38 59.50	− 0.20	**−36.88**	... .	......	....	....	3 38 22.42	− 0.41	.. ..	....
7	ε Persei	11	51 50.60	− 0.30	−36.85	359 8 4.80	44.191	− 0.8	6.6	3 51	.....	.. ..	....
8	α Tauri	11	30 52.30	0.18	−36.96	22 32 18.52	44.919	+ 23.2	6.4	4 30	.....	.. ..	....
9	ι Aurigæ..........	11	51 10.86	− 0.26	−36.90	5 50 4.08	46.662	+ 5.8	6.4	4 50	.....	.. ..	....
10	β Orionis..........	11	10 24.39	− 0.08	−36.99	47 10 5.58	42.664	+1 0.2	7.8	5 9	.....	.. ..	....
11	6 B. Ursæ Minoris..	8	15 23.70	− 9.20	[−36.80]	310 38 3.52	42.852	−1 6.1	[7.8]	12 14	.....	.. ..	....
12	ε Virginis..........	11	57 54.93	− 0.30	[−36.90]	27 22	......	....	....	12 57	.....	.. ..	....
13	θ Virginis..........	11	5 29.52	− 0.21	[−36.93]	43 50 5.50	48.528	+ 55.0	[6.6]	13 4	.....	.. ..	....
14	α Ursæ Minoris S. P.	7	23 3.31	+12.52	[−35.97]	307 40 4.62	42.247	−1 13.8	[7.1]	1 22	.....	.. ..	....
	May 16, K.												
15	6 B. Ursæ Minoris..	6	15 23.27	− 7.91	[−38.86]	310 38	......	....	....	12 14	.....	.. ..	....
16	ε Virginis..........	11	57 55.88	− 0.21	[−37.97]	27 20	......	....	....	12 57	.....	.. ..	....
17	α Virginis	11	20 39.81	− 0.09	[−38.01]	49 28	......	....	....	13 20	.....	.. ..	....
18	α Ursæ Minoris S. P.	6	23 7.25	+10.78	[−36.67]	307 40	... ..	....	....	1 22	.....	.. ..	....
	May 22, B.												
19	6 B. Ursæ Minoris..	8	15 21.06	− 9.04	[−39.12]	310 38 5.55	42.563	−1 4.7	[6.9]	12 14	.....	.. ..	....
20	ε Virginis	11	57 58.45	− 0.26	[−40.51]	27 22 7.30	43.055	+ 29.0	[8.3]	12 57	.....	.. ..	....
21	θ Virginis	11	5 33.10	− 0.16	[−40.60]	43 50 6.50	48.565	+ 53.7	[7.4]	13 4	.....	.. ..	....
22	α Ursæ Minoris S. P.	8	23 14.20	+12.30	[−40.41]	307 40 4.30	42.128	−1 12.1	[7.8]	1 22	.....	.. ..	....
	May 23, La.												
23	β Canis Minoris....	9	22 29.38	− 0.22	−41.05	30 22 6.15	43.419	+ 32.0	9.1	7 21	.....	.. ..	....
24	α² Geminorum	11	28 59.83	− 0.38	−41.06	6 44 4.45	47.554	+ 6.5	8.8	7 28	.....	.. ..	....
25	α Canis Minoris....	11	34 49.67	− 0.21	−41.07	33 22 7.82	45.139	+ 36.0	8.6	7 34	.....	.. ..	....
26	β Geminorum	11	39 58.26	− 0.35	−41.02	10 36 8.42	42.309	+ 10.3	9.0	7 39	.....	.. ..	....
27	ε Hydræ	11	42 14.85	− 0.22	−41.08	32 4 6.82	44.670	+ 34.2	8.9	8 41	.....	.. ..	....
28	Moon I, N	10	9 52.90	− 0.25	**−41.06**	28 14 8.15	33.052	+ 29.4	**8.7**	9 9 11.59	+65.08	+ 10 37 12.8	....
29	α Lyncis	11	15 44.71	− 0.40	−41.01	4 2 5.08	46.502	+ 3.9	7.8	9 15	.....	.. ..	....
30	ο Leonis	11	36 35.19	− 0.24	−41.09	28 30 6.02	46.091	+ 29.8	9.9	9 35	.....	.. ..	....
31	ε Leonis	11	40 57.21	− 0.32	−41.05	14 38 4.85	42.754	+ 14.3	8.3	9 40	.....	.. ..	....
32	δ Ursæ Minoris	11	5 5.26	− 3.97	[−40.44]	312 16 4.58	43.348	−1 1.6	[9.2]	18 4	.....	.. ..	....
33	η Serpentis.........	11	16 55.67	− 0.10	[−41.19]	41 46 6.58	44.268	+ 50.3	[10.2]	18 16	.....	.. ..	....
34	51 H. Cephei S. P....	10	54 46.10	+ 4.41	[−40.72]	306 4 4.70	47.522	−1 16.9	[9.2]	6 54	.....	.. ..	....
35	ι Lyræ	11	4 30.44	− 0.31	[−41.26]	2 54 4.45	46.526	+ 2.9	[9.0]	19 3	.....	.. ..	....
	May 28, B.												
36	6 B. Ursæ Minoris..	8	15 21.95	− 9.53	[−43.42]	310 38 4.58	42.598	−1 4.3	[7.7]	12 14	.....	.. ..	....
37	ε Virginis	11	58 1.74	− 0.14	−43.97	27 22 6.98	43.078	+ 28.8	8.9	12 57	.....	.. ..	....
38	θ Virginis	11	5 36.45	− 0.03	−44.12	43 52 6.35	42.328	+ 53.4	7.6	13 4	.....	.. ..	....
39	Moon I, N........	8	7 27.22	+ 0.01	**−44.06**	49 32 6.08	46.827	+1 5.3	**8.2**	13 6 43.17	+62.00	−10 45 45.6	....
40	α Ursæ Minoris S. P.	8	23 20.52	+13.25	[−43.37]	307 40 3.70	42.065	−1 11.6	[7.7]	1 22	.....	.. ..	....
41	ζ Virginis	11	30 25.95	− 0.07	−44.05	38 56 6.88	45.020	+ 45.0	8.6	13 29	.....	.. ..	....
42	m Virginis	11	37 12.11	− 0.01	−44.10	47 2 7.72	46.841	+ 59.7	7.9	13 36	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
13 0 21	29.94	63.1	63.3
1 7	29.95	65.2	65.2
14 3 25	29.93	68.9	68.0
3 57	29.92	69.4	69.3
4 33	29.91	70.0	70.0
5 14	29.90	72.3	70.6
12 4	29.89	62.6	60.2
12 47	29.90	60.3	58.3
13 28	29.895	59.0	57.3
22 12 12	29.62	67.0	66.6
12 54	29.64	66.0	65.7
13 27	29.64	65.2	65.0
23 7 23	29.725	78.6	79.0
7 42	29.72	78.2	78.8
8 46	29.72	77.2	78.8
9 20	29.715	77.0	78.4
9 43	29.72	76.8	77.0
18 10	29.69	64.0	62.8
19 0	29.68	63.5	62.0
28 12 3	29.40	67.3	66.0
12 49	29.40	65.7	64.6
13 39	29.40	63.4	63.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 4, 28, 39.	Z. D. thread A used.
3.	Bisections at I, II, III.
4.	Bisections at V, VI, VII.
11, 19, 36.	Bisections at c_1, c_2, c_3, c_4, c_5.
14, 22, 34, 40.	Bisections at c_5, c_4, c_3, c_2, c_1.
28.	Bisections at II, III, IV, V, VI.
29.	Bisections at VI, VII.
32.	Bisections at c_1, c_2, c_4, c_5.
39.	Bisections at III, IV, V.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 3.0	−15 50.8	...	−15 47.8
4	+ 3.1	+15 50.9	...	+15 54.0
5	+ 1.7	....	0.0	+ 1.7
28	+26 35.6	−15 25.8	...	+11 9.8
39	+41 3.8	−14 46.0	...	+26 17.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	May 29, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	π Virginis.........	11	56 35.38	− 0.13	[−44.81]	31 40 6.35	47.534	+ 34.8	[7.3]	11 55	.....	.. ..	....
2	6 B. Ursæ Minoris .	8	15 22.71	− 9.44	[−44.87]	310 38 5.22	42.642	−1 5.5	[8.0]	12 14	.....	.. ..	....
3	α Ursæ Minoris S. P.	8	23 19.28	+13.16	[−41.14]	307 40 4.82	42.089	−1 13.0	[6.8]	1 22	.....	.. ..	....
4	ζ Virginis.........	11	30 26.79	− 0.09	−44.88	38 56 6.20	45.018	+ 45.8	8.7	13 29	.....	.. ..	....
5	m Virginis.........	11	37 12.92	− 0.04	−44.89	47 2 6.38	46.849	+1 0.9	8.0	13 36	.....	.. ..	....
6	Moon I, N.......	11	55 11.27	0.00	**−44.91**	53 6 6.25	43.869	+1 15.7	**8.2**	13 54 26.36	+62.86	−14 18 59.5	....
7	κ Virginis.........	11	8 25.04	− 0.03	−44.92	48 38 5.92	48.379	+1 4.6	8.0	14 7	.....	.. ..	....
8	λ Virginis.........	11	14 33.38	− 0.01	−44.95	51 44 6.15	48.479	+1 12.1	8.3	14 13	.....	.. ..	....
	May 30, La.												
9	ε Bootis...........	11	41 28.45	− 0.29	−45.44	11 22 5.58	43.528	+ 11.4	6.7	14 40	.....	.. ..	....
10	Moon I, N.......	11	44 29.26	− 0.06	**−45.50**	56 6 2.42	37.805	+1 24.1	**7.9**	14 43 43.70	+63.94	−17 17 8.0	....
11	γ Scorpii...........	11	59 5.85	− 0.01	−45.57	63 42 2.28	48.419	+1 54.2	8.4	14 58	.....	.. ..	....
12	β Libræ...........	11	12 29.81	− 0.10	−45.54	47 52 5.55	42.896	+1 2.5	7.9	15 11	.....	.. ..	....
13	α Serpentis........	11	40 12.49	− 0.18	−45.60	32 6 6.72	46.274	+ 35.6	7.5	15 39	.....	.. ..	....
14	ε Serpentis........	11	46 41.82	− 0.17	−45.54	34 4 6.88	45.144	+ 38.3	8.3	15 45	.....	.. ..	....
15	β¹ Scorpii..........	11	0 30.18	− 0.04	−45.61	58 22 6.35	44.359	+1 31.7	8.4	15 59	.....	.. ..	....
	May 31, B.												
16	β Libræ...........	11	12 30.41	− 0.06	−46.18	47 52 6.35	42.811	+1 2.6	7.2	15 11	.....	.. ..	....
17	β Coronæ Borealis .	11	24 34.36	− 0.28	−46.16	9 24 3.20	45.710	+ 9.4	7.0	15 23	.....	.. ..	....
18	Moon I, N.......	11	35 34.54	0.00	**−46.23**	58 16 5.18	48.625	+1 31.7	**7.2**	15 34 48.31	+65.08	−19 30 46.6	....
19	α Serpentis........	11	40 13.11	− 0.15	−46.25	32 6 5.68	46.308	+ 35.6	7.2	15 39	.....	.. ..	....
20	ε Serpentis........	11	46 42.54	− 0.14	−46.28	34 4 7.20	45.071	+ 38.4	7.4	15 45	.....	.. ..	....
21	κ Ophiuchi........	10	53 48.67	− 0.16	−46.34	29 18 5.60	47.925	+ 31.9	7.1	16 53	.....	.. ..	....
22	Uranus C, C.....	11	56 8.11	+ 0.02	**−46.36**	61 28 7.22	43.795	+1 44.2	**6.6**	16 55 21.77	.....	−22 38 14.2	....
23	η Ophiuchi........	11	5 32.08	− 0.02	−46.37	54 26 6.40	44.830	+1 19.3	6.8	17 4	.....	.. ..	....
24	θ Ophiuchi........	11	16 46.09	+ 0.04	−46.42	63 44 4.95	42.612	+1 54.6	6.0	17 15	.....	.. ..	....
25	b Ophiuchi........	11	21 9.71	+ 0.03	−46.40	62 54 6.08	45.978	+1 50.6	6.3	17 20	.....	.. ..	....
	June 3, La.												
26	ζ Ophiuchi........	11	32 34.54	− 0.06	−48.44	49 12 5.32	45.471	+1 5.2	9.8	16 31	.....	.. ..	....
27	Uranus C, C.....	11	55 38.43	+ 0.02	**−48.43**	61 26 5.30	47.854	+1 43.2	**9.3**	16 54 50.02	.....	−22 37 26.4	....
28	η Ophiuchi........	11	5 34.17	− 0.03	−48.41	54 26 4.60	45.112	+1 18.6	9.9	17 4	.....	.. ..	....
29	θ Ophiuchi........	11	16 48.15	+ 0.03	−48.43	63 44 5.40	42.839	+1 53.6	9.0	17 15	.....	.. ..	....
30	b Ophiuchi........	11	21 11.80	+ 0.03	−48.45	62 54 5.38	46.199	+1 49.7	8.9	17 20	.....	.. ..	....
31	δ Ursæ Minoris....	11	5 15.48	− 4.96	[−48.54]	312 16 4.62	43.187	−1 1.8	[9.5]	18 4	.....	.. ..	....
32	Moon II, N......	11	19 21.31	0.00	**−48.42**	59 16 5.60	34.575	+1 34.7	**9.3**	18 18 32.89	−66.89	−20 26 18.4	....
33	λ Sagittarii........	11	22 44.03	+ 0.04	−48.49	64 18 5.32	43.890	+1 56.9	[7.8]	18 21	.....	.. ..	....
34	1 Aquilæ..........	11	30 41.11	− 0.08	−48.37	47 10 5.15	41.476	+1 0.9	9.3	18 29	.....	.. ..	....
35	Jupiter I, S......	6	49 48.67	+ 0.02	**−48.41**	61 42 5.02	36.045	+1 44.7	**9.3**	18 49 0.28	+ 1.77	−22 52 56.0	....
36	Jupiter II, N	5	49 52.22	+ 0.02	**−48.41**	61 42 5.02	33.695	+1 44.7	**9.3**	18 49 3.83	− 1.78	−22 52 10.7	....
37	51 H. Cephei S.P....	6	54 50.60	+ 5.63	[−48.59]	306 4	......	....	....	6 54	.....	.. ..	....
38	Saturn I, S......	6	6 39.20	+ 0.01	**−48.41**	60 54 5.15	35.845	+1 41.4	**9.3**	19 5 50.80	+ 0.59	−22 4 50.6	....
39	Saturn II, N.....	4	6 40.38	+ 0.01	**−48.41**	60 54 5.15	34.760	+1 41.4	**9.3**	19 5 51.98	− 0.59	−22 4 30.4	....
40	d Sagittarii........	11	12 42.51	− 0.01	−48.38	57 58 4.22	42.638	+1 30.2	8.7	19 11	.....	.. ..	....
	June 3, B.												
41	β Arietis	11	50 0.22	− 0.18	−48.49	18 32 3.78	43.132	+ 18.8	8.6	1 49	.....	.. ..	....
42	α Arietis	11	2 25.47	− 0.19	−48.46	15 52 5.48	42.579	+ 15.9	8.8	2 1	.....	.. ..	....
43	β Trianguli........	8	4 29.26	− 0.28	−48.49	4 20	......	....	....	2 3	.....	.. ..	....
	June 4, B.												
44	Sun, N..........	..	.. ..	....	.....	16 6 8.58	48.422	+ 16.0	**10.0**	.. ..	.....	+22 40 32.8	....
45	Sun II, S........	11	49 42.90	− 0.24	**−48.44**	16 38 8.25	47.200	+ 16.6	**10.0**	4 48 54.22	−68.56	+22 8 53.2	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
29 11 50	29.54	61.1	59.7
12 21	29.545	60.0	58.7
13 7	29.555	58.8	57.6
13 43	29.56	57.8	56.4
14 18	29.56	56.9	55.6
30 14 33	29.65	60.5	59.6
15 16	29.65	60.4	59.3
15 55	29.64	60.0	59.2
31 15 2	29.56	58.7	57.3
15 50	29.56	58.2	57.0
16 54	29.545	57.0	56.0
17 24	29.50	56.7	55.4
3 16 25	29.72	64.0	63.1
17 14	29.73	64.0	63.5
18 28	29.73	63.0	61.8
19 15	29.73	62.0	60.8
1 45	29.825	70.0	68.8
3 30	29.81	73.5	71.8
4 4 50	29.82	75.9	75.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 31.	Bisections at c_1, c_2, c_3, c_4, c_5.
3.	Bisections at d_3, d_2, c_5, c_4, c_3, c_2.
6, 10, 18, 32, 35, 36, 38, 39, 44, 45.	Z. D. thread A used.
6, 10, 18, 32.	Bisections at II, III, IV, V, VI.
17, 33, 45.	Bisections at VI, VII.
21.	Bisections at I, II.
24, 40.	Bisections at II, VI, VII.
35.	Bisections at II, VI,
36.	Bisections at I, VII.
38.	Bisection at VI.
39.	Bisection at VII.
44.	Bisections at III, IV.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+43 8.7	−14 45.7	...	+28 23.0
10	+44 51.3	−14 47.4	...	+30 3.9
18	+46 10.6	−14 50.8	...	+31 19.8
22	+ 0.4	....	...	+ 0.4
27	+ 0.4	....	...	+ 0.4
32	+47 34.7	−15 8.9	...	+32 25.8
35	+ 1.8	+ 22.6	...	+ 24.4
36	+ 1.8	− 22.7	...	− 20.9
38	+ 0.9	+ 10.1	...	+ 11.0
39	+ 0.9	− 10.1	...	− 9.2
44	+ 2.4	−15 49.7	...	−15 47.3
45	+ 2.5	+15 49.8	...	+15 52.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Venus I, C.......	5	28 39.00	− 0.27	**−48.44**	15 6 5.28	47.410	+ 14.9	**10.3**	5 27 50.29	+ 0.49	+23 44 11.0	....
2	Venus II	6	28 39.97	− 0.27	**−48.44**	... .	......	....	....	5 27 51.26	− 0.48	.. ..	....
3	α Orionis..........	11	50 38.27	− 0.16	−48.50	31 28 7.05	43.139	+ 33.7	10.1	5 49	.....	.. ..	....
4	Mercury I, C.....	9	20 47.96	− 0.33	**−48.43**	13 22 4.20	43.419	+ 13.1	**10.7**	6 19 59.20	+ 0.24	+25 29 30.8	....
5	γ Geminorum	11	32 49.31	− 0.27	−48.39	22 22 4.95	44.794	+ 22.7	10.7	6 32	.....	.. ..	....
6	ε Geminorum	..	.. ..	....	.....	13 38 4.50	43.002	+ 13.4	11.3	6 38	.....	.. ..	....
7	α Canis Minoris....	5	34 56.95	− 0.21	−48.41	33 22 5.68	45.472	+ 36.2	11.9	7 34	.....	.. ..	....
8	β Geminorum	11	40 5.57	− 0.40	−48.37	10 36 3.88	42.638	+ 10.3	10.4	7 39	.....	.. ..	....
9	ζ Ophiuchi........	11	32 24.65	− 0.10	−48.50	49 12 5.30	45.460	+1 5.3	9.8	16 31	.....	.. ..	....
10	Uranus C, C	11	55 28.09	0.00	**−48.63**	61 26 5.58	47.020	+1 43.3	**9.3**	16 54 39.46	.....	−22 37 10.8	....
11	η Ophiuchi........	11	5 34.40	− 0.06	−48.59	54 26 4.80	45.102	+1 18.8	10.1	17 4	.....	.. ..	....
12	θ Ophiuchi........	11	16 48.36	+ 0.02	−48.62	63 44 4.60	42.898	+1 53.9	9.6	17 15	.....	.. ..	....
13	b Ophiuchi........	11	21 12.19	+ 0.01	−48.80	62 56 5.62	39.891	+1 50.0	8.5	17 20	.....	.. ..	....
14	δ Ursæ Minoris	7	5 15.69	− 5.90	[−47.78]	312 16 2.60	43.246	−1 1.9	[8.8]	18 4	.....	.. ..	....
15	λ Sagittarii........	11	22 44.22	+ 0.02	−48.64	64 18 5.48	43.998	+1 57.0	8.3	18 21	.....	.. ..	....
16	1 Aquilæ..........	11	30 41.40	− 0.12	−48.60	47 10 5.48	41.439	+1 1.0	9.2	18 29	.....	.. ..	....
17	Jupiter I, N......	6	49 23.57	0.00	**−48.64**	61 40 5.85	41.862	+1 44.8	**9.3**	18 48 34.93	+ 1.72	−22 52 48.5	....
18	Jupiter II, S.....	5	49 27.00	0.00	**−48.64**	61 40 5.85	44.170	+1 44.9	**9.3**	18 48 38.36	− 1.71	−22 53 32.6	....
19	σ Sagittarii........	6	50 0.20	+ 0.03	−48.79	65 14	......	....	....	18 49	.....	.. ..	....
20	51 H. Cephei s. p...	6	54 49.35	+ 6.62	[−48.42]	306 4 3.40	47.317	−1 17.2	[7.2]	6 54	.....	.. ..	....
21	Saturn I, N......	6	6 25.02	− 0.01	**−48.64**	60 50 5.30	48.820	+1 41.5	**9.3**	19 5 36.37	+ 0.67	−22 4 57.9	....
22	Saturn II, S......	5	6 26.36	− 0.01	**−48.64**	60 50 5.30	49.770	+1 41.5	**9.3**	19 5 37.71	− 0.67	−22 5 16.3	....
23	Moon II, N	11	14 0.87	− 0.04	**−48.64**	57 24 4.10	45.454	+1 28.6	**9.3**	19 13 12.19	−66.73	−18 37 39.5	....
24	δ Aquilæ..........	11	21 22.33	− 0.20	−48.52	35 56 5.22	43.013	+ 41.0	9.8	19 20	.....	.. ..	....
	June 5, Br.												
25	Jupiter I, N......	6	48 58.00	− 0.02	**−49.31**	61 42 4.82	37.698	+1 43.4	**12.5**	18 48 8.67	+ 1.79	−22 53 22.8	....
26	Jupiter II, S	5	49 1.58	− 0.02	**49.31**	61 42 4.82	40.205	+1 43.4	**12.5**	18 48 12.25	− 1.79	−22 54 11.1	....
27	Saturn I, N	6	6 10.85	− 0.03	**−49.30**	60 54 6.32	37.772	+1 40.1	**12.5**	19 5 21.52	+ 0.75	−22 5 22.4	....
28	Saturn II, S......	5	6 12.34	− 0.03	**49.30**	60 54 6.32	38.928	+1 40.2	**12.5**	19 5 23.01	− 0.74	−22 5 44.9	....
29	d Sagittarii........	11	12 43.59	− 0.05	−49.37	57 58 5.95	42.878	+1 29.1	13.4	19 11	.....	.. ..	....
30	κ Aquilæ..........	11	32 26.68	− 0.13	−49.28	46 6 4.72	41.762	+ 58.1	12.3	19 31	.....	.. ..	....
31	γ Aquilæ..........	11	42 25.75	− 0.24	−49.26	28 28 6.15	45.895	+ 30.4	12.2	19 41	.....	.. ..	....
32	β Aquilæ..........	11	51 19.59	− 0.21	−49.28	32 40 4.70	47.989	+ 36.0	12.5	19 50	.....	.. ..	....
33	Moon II, N	11	8 8.50	− 0.07	**−49.29**	54 38 4.58	38.584	+1 18.9	**12.5**	20 7 19.18	−66.36	−15 49 15.3	....
34	α² Capricorni.......	11	13 26.31	− 0.09	−49.27	51 42 4.28	41.720	+1 10.9	12.2	20 12	.....	.. ..	....
35	π Capricorni.......	11	22 31.92	− 0.05	−49.33	57 22 3.90	44.154	+1 27.4	12.9	20 21	.....	.. ..	....
36	ε Delphini	11	29 21.42	− 0.24	−49.27	27 52 4.80	46.901	+ 29.7	11.7	20 28	.....	.. ..	....
	June 5, La.												
37	α Arietis	11	2 26.49	− 0.35	−49.26	15 52 4.08	42.667	+ 15.7	9.8	2 1	.....	.. ..	....
38	β Trianguli........	11	4 30.17	− 0.44	−49.18	4 20 1.72	45.038	+ 4.2	9.2	2 3	.....	.. ..	....
39	α Ceti..............	11	57 56.75	− 0.22	−49.30	35 8 3.82	46.402	+ 38.6	10.1	2 57	.....	.. ..	....
40	η Tauri	11	42 26.83	− 0.36	−49.42	15 4 3.85	42.065	+ 14.8	10.1	3 41	.....	.. ..	....
	June 6, La.												
41	Sun I, S..........	11	55 40.33	− 0.35	**−49.35**	16 28 4.72	37.057	+ 16.2	**11.6**	4 54 50.63	+68.64	+22 22 17.1	....
42	Sun II, N	11	57 57.61	− 0.35	**−49.35**	15 56 3.02	38.285	+ 15.6	**11.6**	4 57 7.91	−68.64	+22 53 52.5	....
43	ε Orionis..........	11	32 1.70	0.19	−49.38	40 6 4.25	46.590	+ 45.8	12.8	5 31	.....	.. ..	....
44	Venus I, C.......	5	39 23.12	− 0.36	**−49.37**	14 54 3.82	49.462	+ 14.6	**12.1**	5 38 33.39	+ 0.35	+23 55 35.2	....
45	Venus II	6	39 23.82	− 0.36	**−49.37**	... .	......	....	....	5 38 34.09	− 0.35	.. ..	....
46	α Orionis..........	11	50 39.25	− 0.25	−49.38	31 28 3.38	43.482	+ 33.2	12.7	5 49	.....	.. ..	....
47	μ Geminorum	11	17 49.13	− 0.35	−49.39	16 18 3.85	42.555	+ 15.9	11.6	6 16	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
4	5	30	29.80	76.8	75.8
	6	27	29.80	77.4	76.0
	7	43	29.80	78.5	78.0
	16	34	29.84	65.8	64.8
	17	24	29.84	65.0	64.0
	18	23	29.835	64.2	63.0
	19	27	29.835	63.3	62.2
5	19	22	29.85	70.9	69.1
	19	56	29.85	69.9	68.1
	20	34	29.85	69.0	67.5
	2	9	29.89	77.7	78.0
	3	0	29.89	79.7	79.8
	4	2	29.88	82.0	81.6
6	4	58	29.87	83.2	83.0
	5	33	29.865	84.5	84.0
	5	57	29.85	84.8	84.7

Micrometer bisections are made at I, II, VI, VII, except as noted below.	
7.	Bisections at I, II.
14.	Bisections at c_1, c_2, c_3, c_4, c_5.
17, 18, 21, 22, 23, 25, 26, 27, 28, 33, 41, 42.	Z. D. thread A used.
17, 22, 26, 28.	Bisections at II, VI.
18, 21, 25, 27.	Bisections at I, VII.
20.	Bisections at c_5, c_4, c_3, c_2, c_1.
23, 33.	Bisections at II, III, IV, V, VI.
24.	Bisections at I, II, VI.
37.	Bisections at II, VI, VII.
38.	Bisections at VI, VII.
41.	Bisections at I, II, III.
42.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 1.4	....	0.0	+ 1.4
4	+ 1.9	....	+ 0.1	+ 2.0
10	+ 0.4	....	...	+ 0.4
17	+ 1.8	− 22.0	...	− 20.2
18	+ 1.8	+ 22.1	...	+ 23.9
21	+ 0.9	− 9.2	...	− 8.3
22	+ 0.9	+ 9.2	...	+ 10.1
23	+47 3.8	−15 16.8	...	+31 47.0
25	+ 1.8	− 24.1	...	− 22.3
26	+ 1.8	+ 24.2	...	+ 26.0
27	+ 0.9	− 11.2	...	− 10.3
28	+ 0.9	+ 11.3	...	+ 12.2
33	+45 57.9	−15 25.5	...	+30 32.4
41	+ 2.4	+15 47.7	...	+15 50.1
42	+ 2.4	−15 47.7	...	−15 45.3
44	+ 1.3	....	0.0	+ 1.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Mercury C, C....	11	34 5.77	− 0.37	**−49.39**	13 36 3.65	42.675	+ 13.1	**12.9**	6 33 16.01	+ 0.01	+25 15 47.8	....
2	ε Geminorum.....	11	38 41.39	− 0.37	−49.37	13 38 2.32	43.202	+ 13.2	12.8	6 37	.....	.. ..	....
	June 7, Br.												
3	β Arietis..........	11	49 2.30	− 0.20	−50.44	18 32 5.12	43.070	+ 19.0	9.4	1 49	.....	.. ..	....
4	α Arietis..........	11	2 27.51	− 0.21	−50.37	15 52 4.38	42.602	+ 16.1	8.6	2 1	.....	.. ..	....
5	α Ceti.............	11	57 57.81	− 0.10	−50.44	35 8 5.80	46.170	+ 39.8	9.2	2 57	.....	.. ..	....
6	η Tauri............	11	42 27.72	− 0.22	−50.41	15 4 4.28	41.970	+ 15.2	9.2	3 41	.....	.. ..	....
7	ζ Persei...........	8	48 46.33	− 0.27	−50.38	7 16 2.70	44.305	+ 7.2	9.8	3 47	.....	.. ..	....
	June 8, Br.												
8	Sun I, S.........	11	3 56.27	− 0.21	**−50.44**	16 16 5.30	37.503	+ 16.5	**9.3**	5 3 5.62	+68.71	+22 34 5.4	....
9	Sun II, N........	8	6 13.69	− 0.21	**−50.44**	15 44 4.80	38.635	+ 15.9	**9.3**	5 5 23.04	−68.71	+23 5 41.4	....
10	ε Orionis..........	11	32 2.73	− 0.07	−50.52	40 6 5.20	46.249	+ 47.4	9.1	5 31	.....	.. ..	....
11	κ Orionis..........	11	43 54.75	− 0.02	−50.45	48 32	......	....	....	5 43	.....	.. ..	....
12	Venus I, C.......	6	50 8.55	− 0.22	**−50.45**	14 46 4.52	47.320	+ 14.9	**9.3**	5 49 17.88	+ 0.42	+24 4 12.5	....
13	Venus II........	5	50 9.38	− 0.22	**−50.45**	... .	......	....	....	5 49 18.71	− 0.41	.. ..	....
14	μ Geminorum.....	8	17 50.06	− 0.21	−50.45	16 18 5.00	42.332	+ 16.4	8.9	6 16	.....	.. ..	....
15	γ Geminorum.....	11	32 51.22	− 0.17	−50.39	22 22 5.65	44.648	+ 23.1	9.1	6 32	.....	.. ..	....
16	ε Geminorum.....	11	38 42.32	− 0.23	−50.44	13 38 4.70	42.923	+ 13.6	10.8	6 37	.....	.. ..	....
17	Mercury I, C....	11	46 26.95	− 0.23	**−50.46**	13 56 4.75	42.212	+ 13.9	**9.3**	6 45 36.26	+ 0.25	+24 55 51.2	....
18	η Aquarii..........	11	31 9.05	− 0.09	−50.37	39 28 6.20	44.290	+ 47.7	7.4	22 30	.....	.. ..	....
19	ζ Pegasi...........	11	37 24.34	− 0.14	−50.34	28 32 6.10	43.722	+ 31.5	7.9	22 36	.....	.. ..	....
20	Moon II, N......	11	47 26.34	− 0.08	**−50.37**	41 44 5.40	41.268	+ 51.7	**7.9**	22 46 35.89	−66.12	− 2 55 45.0	....
21	α Pegasi...........	11	0 42.57	− 0.17	−50.39	24 10 5.32	45.762	+ 26.0	8.3	22 59	.....	.. ..	....
22	φ Aquarii..........	11	10 4.33	− 0.07	−50.36	45 26 5.20	41.558	+ 58.6	8.0	23 9	.....	.. ..	....
	June 9, B.												
23	δ Ursæ Minoris....	11	5 16.73	− 5.29	[−49.20]	312 16 4.35	43.093	−1 2.7	[8.2]	18 4	.....	.. ..	....
24	η Serpentis........	11	17 4.98	− 0.09	−50.18	41 46 5.90	44.092	+ 51.2	9.3	18 16	.....	.. ..	....
25	λ Sagittarii........	11	22 45.89	+ 0.06	−50.25	64 18 6.32	43.814	+1 58.7	7.4	18 21	.....	.. ..	....
26	Jupiter I, N......	5	47 9.68	+ 0.04	**−50.21**	61 42 6.60	45.448	+1 46.5	**8.4**	18 46 19.51	+ 1.79	−22 56 0.4	....
27	Jupiter II, S.....	5	47 13.25	+ 0.04	**−50.21**	61 42 6.60	47.715	+1 46.5	**8.4**	18 46 23.08	− 1.78	−22 56 42.5	....
28	51 H. Cephei S. P...	8	54 51.92	+ 6.05	[−50.99]	306 4 3.58	47.326	−1 18.2	[7.8]	6 54	.....	.. ..	....
29	Saturn I, N......	5	5 10.26	+ 0.04	**−50.20**	60 54 5.60	43.075	+1 42.9	**8.4**	19 4 20.10	+ 0.78	−22 7 10.5	....
30	Saturn II, S.....	6	5 11.82	+ 0.04	**−50.20**	60 54 5.60	44.268	+1 42.9	**8.4**	19 4 21.66	− 0.78	−22 7 33.2	....
31	d Sagittarii........	11	12 44.49	+ 0.01	−50.24	57 58 4.92	42.549	+1 31.4	8.6	19 11	.....	.. ..	....
32	δ Aquilæ..........	11	21 24.00	− 0.13	−50.15	35 56 5.95	42.795	+ 41.5	8.5	19 20	.....	.. ..	....
33	τ Pegasi...........	11	16 36.75	− 0.26	−50.07	15 40 4.75	41.538	+ 16.0	7.0	23 15	.....	.. ..	....
34	θ Piscium.........	11	23 49.22	− 0.15	−50.16	33 0 5.65	45.759	+ 37.0	7.9	23 22	.....	.. ..	....
35	ι Piscium.........	11	35 43.89	− 0.14	−50.17	33 46 5.32	41.655	+ 38.1	7.9	23 34	.....	.. ..	....
36	Moon II, N......	11	41 10.70	− 0.13	**−50.13**	36 38 5.20	40.219	+ 42.4	**7.6**	23 40 20.44	−66.89	+ 2 10 44.3	....
37	ω Piscium.........	11	55 5.91	− 0.15	−50.13	32 32 5.92	43.180	+ 36.4	7.4	23 54	.....	.. ..	....
	June 9, Br.												
38	β Arietis..........	11	50 2.23	− 0.25	−50.26	18 32 6.62	42.901	+ 19.0	7.8	1 49	.....	.. ..	....
39	α Arietis..........	11	2 27.47	− 0.28	−50.20	15 52 5.70	42.460	+ 16.1	7.4	2 1	.....	.. ..	....
40	α Ceti.............	11	57 57.77	− 0.15	−50.31	35 8 6.52	46.054	+ 39.7	7.9	2 57	.....	.. ..	....
41	ζ Persei...........	5	48 46.19	− 0.35	−50.12	7 16 4.05	44.137	+ 7.2	7.1	3 47	.....	.. ..	....
42	α Tauri............	11	31 5.79	− 0.25	−50.13	22 32 5.62	45.635	+ 23.3	8.3	4 30	.....	.. ..	....
	June 10, Br.												
43	Sun I............	11	12 12.25	− 0.30	**−50.22**	15 50	......	....	....	5 11 21.73	+68.82	.. ..	....
44	Sun II...........	11	14 29.90	− 0.30	**−50.22**	... .	......	....	....	5 13 39.38	−68.83	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
6 6 43	29.84	85.7	85.4
7 1 46	29.78	63.2	60.9
2 8	29.78	63.8	61.5
3 1	29.775	64.6	62.0
3 55	29.78	66.0	63.1
8 5 6	29.795	66.8	64.9
5 56	29.795	68.0	65.6
6 20	29.795	68.7	66.8
6 49	29.80	70.7	67.1
22 28	29.915	55.0	52.1
22 54	29.925	55.6	52.9
23 14	29.935	56.4	53.7
9 17 59	29.92	60.0	58.2
18 42	29.92	59.0	57.2
19 26	29.925	59.0	58.0
23 10	29.80	58.5	59.0
23 55	30.00	60.8	61.7
1 51	30.03	67.1	65.8
2 6	30.04	67.2	65.8
3 1	30.04	69.2	67.5
3 55	30.045	71.7	69.9
4 26	30.045	72.6	71.5
10 5 14	30.04	73.2	71.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

8, 9, 20, 26, 27, 29, 30, 36.	Z. D. thread A used.
8.	Bisections at I, II, III.
9.	Bisections at V, VI, VII.
16, 18.	Bisections at II, VI, VII.
20, 36.	Bisections at II, III, IV, V, VI.
23.	Bisections at c_1, c_2, c_3, c_4, c_5.
26, 30.	Bisections at I, VII.
27.	Bisection at II.
28.	Bisections at c_5, c_4, c_3, c_2, c_1.
29.	Bisections at II, VI.
35, 37.	Bisections at VI, VII.
41.	Bisections at I, II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 2.0	....	0.0	+ 2.0
8	+ 2.4	+15 48.0	...	+15 50.4
9	+ 2.3	−15 47.9	...	−15 45.6
12	+ 1.3	....	0.0	+ 1.3
17	+ 2.2	....	0.0	+ 2.2
20	+38 43.4	−15 55.6	...	+22 47.8
26	+ 1.8	− 21.0	...	− 19.2
27	+ 1.8	+ 21.1	...	+ 22.9
29	+ 0.9	− 11.3	...	− 10.4
30	+ 0.9	+ 11.4	...	+ 12.3
36	+35 4.4	−16 5.9	...	+18 58.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Orionis	11	32 2.62	− 0.15	−50.31	40 6 4.42	46.198	+ 47.1	7.3	5 31	....	.. ..	....
2	α Orionis	11	50 40.09	− 0.20	−50.24	31 28 6.18	43.055	+ 34.2	8.6	5 49	....	.. ..	....
3	Venus I, C.	6	0 53.97	− 0.30	**−50.23**	14 42 4.60	41.705	+ 14.7	**8.1**	6 0 3.44	+ 0.43	+24 9 59.1	....
4	Venus II	5	0 54.82	− 0.30	**−50.23**	... .	......	....	....	6 0 4.29	− 0.42	.. ..	....
5	γ Geminorum	10	32 51.10	− 0.26	−50.18	22 22 5.48	44.641	+ 23.0	8.7	6 32	.....	.. ..	....
6	Mercury I, C.	11	57 49.26	− 0.31	**−50.24**	14 20 4.25	45.876	+ 14.3	**8.2**	6 56 58.71	+ 0.26	+24 30 39.9	....
7	δ Geminorum	10	15 4.37	− 0.30	−50.20	16 40 5.88	48.509	+ 16.7	7.9	7 14	.....	.. ..	....
8	θ Herculis	11	53 45.19	− 0.38	[−50.21]	1 36 3.22	42.912	+ 1.6	[9.3]	17 52	.....	.. ..	....
9	δ Ursæ Minoris	8	5 18.18	− 5.90	[−49.99]	312 16 3.60	43.142	−1 2.4	[9.1]	18 4	.....	.. ..	....
10	51 H. Cephei S. P.	8	54 50.81	+ 6.81	[−50.78]	306 4 4.62	47.277	−1 17.8	[7.7]	6 54	.....	.. ..	....
11	ι Lyræ	11	4 39.82	− 0.37	[−50.18]	2 54 3.40	46.361	+ 3.0	[10.0]	19 3	.....	.. ..	....
12	α Andromedæ	11	4 8.70	− 0.30	−50.14	10 18 4.15	46.008	+ 10.3	7.7	0 3	.....	.. ..	....
13	γ Pegasi	11	9 0.62	− 0.20	−50.19	24 12 5.45	46.970	+ 25.5	8.4	0 8	.....	.. ..	....
14	Moon II, N.	11	36 34.11	− 0.14	**−50.13**	31 32 5.92	43.293	+ 34.7	**8.3**	0 35 43.84	−68.17	+ 7 15 53.0	....
15	μ Andromedæ	10	52 7.83	− 0.39	−50.08	0 54 2.70	43.302	+ 0.9	8.5	0 51	.....	.. ..	....
16	β Andromedæ	11	5 3.60	− 0.36	−50.13	3 46 3.48	43.096	+ 3.8	8.5	1 4	.....	.. ..	....
	June 10, B.												
17	γ Ceti	11	39 1.66	− 0.09	−50.19	36 2 6.62	42.680	+ 40.4	8.1	2 38	.....	.. ..	....
18	β Persei	11	2 35.33	− 0.40	−49.93	358 16 3.22	47.571	− 1.6	8.7	3 1	.....	.. ..	....
19	η Tauri	11	42 27.42	− 0.27	−50.00	15 4 4.55	42.055	+ 14.9	9.0	3 41	.....	.. ..	....
20	ζ Persei	11	48 46.07	− 0.34	−49.99	7 16 3.42	44.262	+ 7.1	9.6	3 47	.....	.. ..	....
	June 11, B.												
21	Sun I, N	11	16 20.54	− 0.31	**−50.04**	15 26 4.48	49.278	+ 15.2	**10.3**	5 15 30.19	+68.85	+23 20 22.6	....
22	Sun II, S.	11	18 38.25	− 0.31	**−50.04**	15 58 4.45	47.790	+ 15.8	**10.3**	5 17 47.90	−68.86	+22 48 47.3	....
23	α Orionis	11	50 39.93	− 0.18	−50.09	31 28 5.22	43.244	+ 33.5	10.7	5 49	.....	.. ..	....
24	Venus I, C.	5	6 16.84	− 0.32	**−50.04**	14 40 5.18	42.386	+ 14.3	**10.9**	6 5 26.48	+ 0.45	+24 11 48.6	....
25	Venus II	6	6 17.73	− 0.32	**−50.04**	... .	......	....	....	6 5 27.37	− 0.44	.. ..	....
26	γ Geminorum	11	32 51.05	− 0.25	−50.13	22 22 5.45	44.800	+ 22.5	11.3	6 32	.....	.. ..	....
27	ε Geminorum	10	38 42.02	− 0.33	−50.03	13 38 4.62	43.020	+ 13.3	11.5	6 37	.....	.. ..	....
28	Mercury I, C.	11	3 7.95	− 0.32	**−50.05**	14 34 5.02	46.874	+ 14.2	**11.6**	7 2 17.58	+ 0.26	+24 16 23.5	....
29	α^2 Geminorum	11	29 8.64	− 0.40	−49.94	6 44 3.65	47.795	+ 6.5	11.7	7 28	.....	.. ..	....
	June 11, Br.												
30	β Andromedæ	11	5 3.99	− 0.50	−50.35	3 46 2.70	43.289	+ 3.7	11.5	1 4	.....	.. ..	....
31	η Piscium	11	27 3.45	− 0.31	−50.41	24 0 5.10	46.810	+ 24.5	10.2	1 26	.....	.. ..	....
32	Moon II, N.	11	34 24.72	− 0.30	**−50.37**	26 48 5.52	43.418	+ 27.9	**10.7**	1 33 34.05	−69.83	+12 0 0.2	....
33	β Arietis	11	50 2.49	− 0.36	−50.35	18 32 5.15	43.145	+ 18.5	10.7	1 49	.....	.. ..	....
34	α Arietis	11	2 27.82	− 0.39	−50.39	15 52 5.35	42.655	+ 15.7	10.6	2 1	.....	.. ..	....
	June 12, Br.												
35	Sun I, S.	10	20 29.85	− 0.39	**−50.42**	15 56 4.18	41.517	+ 15.6	**11.2**	5 19 39.04	+68.83	+22 52 52.2	....
36	Sun II, N.	11	22 47.51	− 0.39	**−50.42**	15 24 4.20	42.627	+ 15.0	**11.2**	5 21 56.70	−68.83	+23 24 28.3	....
37	Venus I, C.	6	11 40.53	− 0.40	**−50.43**	14 38 4.05	45.294	+ 14.2	**11.3**	6 10 49.70	+ 0.38	+24 12 54.5	....
38	Venus II	5	11 41.28	− 0.40	**−50.43**	... .	......	....	....	6 10 50.45	− 0.37	.. ..	....
39	α Lyncis	11	15 53.98	− 0.50	−50.43	4 2 1.32	46.950	+ 3.9	11.2	9 15	.....	.. ..	....
40	α Hydræ	11	23 35.41	− 0.15	−50.46	47 4 3.78	46.128	+ 57.9	11.7	9 22	.....	.. ..	....
41	ε Leonis	11	41 6.46	− 0.40	−50.46	14 38 3.95	42.975	+ 14.1	11.8	9 40	.....	.. ..	....
42	α Leonis	11	3 58.56	− 0.30	−50.52	26 24 4.35	44.829	+ 26.8	12.3	10 3	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in	°	°
10	5	54	30.04	74.1	72.9
	6	5	30.035	74.0	72.6
	6	36	30.03	74.7	73.5
	7	1	30.025	76.9	75.2
	7	19	30.02	78.0	75.5
	17	48	29.985	63.9	62.0
	18	9	29.98	63.1	61.8
	18	47	29.98	62.9	61.4
	19	9	29.975	62.6	61.0
	23	59	30.005	65.0	65.1
	0	13	30.01	66.0	66.0
	0	41	30.015	67.9	67.2
	1	10	30.025	69.6	69.8
	2	34	30.025	74.3	75.0
	3	6	30.025	76.5	76.8
	3	51	30.03	79.2	79.4
11	5	18	30.015	81.4	82.7
	5	55	30.02	82.5	83.5
	6	[illegible]	30.01	83.9	84.2
	7	6	30.00	85.5	85.2
	7	30	30.00	87.0	85.7
	1	2	29.98	76.9	79.7
	1	54	29.99	79.9	79.9
	2	[illegible]	29.995	80.7	80.2
12	5	23	30.005	87.3	87.3
	6	15	29.995	88.9	88.9
	9	17	29.955	89.5	89.8
	9	45	29.945	89.0	90.3
	10	8	29.945	88.9	90.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

9.	Bisections at c_1, c_2, c_3, c_4, c_5.
10.	Bisections at c_5, c_4, c_3, c_2, c_1.
14, 21, 22, 32, 35, 36.	Z. D. thread A used.
14, 32.	Bisections at II, III, IV, V, VI.
17, 39.	Bisections at II, VI, VII.
19.	Bisections at I, II.
21, 35.	Bisections at I, II, III.
22, 36.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 1.3	....	0.0	+ 1.3
6	+ 2.3	....	0.0	+ 2.3
14	+31 2.9	−16 15.5	...	+14 47.4
21	+ 2.3	−15 47.6	...	−15 45.3
22	+ 2.4	+15 47.6	...	+15 50.0
24	+ 1.3	....	0.0	+ 1.3
28	+ 2.4	....	− 0.1	+ 2.3
32	+26 58.3	−16 23.4	...	+10 34.9
35	+ 2.4	+15 48.0	...	+15 50.4
36	+ 2.3	−15 48.0	...	−15 45.7
37	+ 1.3	....	0.0	+ 1.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	June 17, B.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Tauri............	11	31 9.35	− 0.19	−53.62	22 32 5.72	45.670	+ 23.1	9.2	4 30	.....	.. ..	....
2	ι Aurigæ.	11	51 27.94	− 0.33	−53.55	5 50 4.25	46.931	+ 5.8	9.4	4 50	.....	.. ..	....
3	β Orionis..........	11	10 41.24	− 0.02	−53.71	47 10 5.48	42.435	+ 59.8	8.7	5 9	.....	.. ..	....
4	β Tauri	11	20 57.17	− 0.30	−53.63	10 20 4.65	44.030	+ 10.2	10.2	5 20	.....	.. ..	....
	June 18, B.												
5	Sun I, S	11	45 28.77	− 0.26	**−53.64**	15 38 6.45	47.827	+ 15.6	**9.7**	5 44 34.87	+68.93	+23 8 47.4	....
6	Sun II, N.........	11	47 46.64	− 0.26	**−53.64**	15 6 5.02	49.152	+ 15.1	**9.7**	5 46 52.74	−68.94	+23 40 20.7	....
7	β Canis Minoris ...	10	22 41.95	− 0.18	−53.72	30 22 5.45	43.422	+ 32.4	11.1	7 21	.....	.. ..	....
8	α² Geminorum	11	29 12.30	− 0.38	−53.61	6 44 3.82	47.799	+ 6.6	11.5	7 28	.....	.. ..	....
9	Mercury I, C.....	10	33 4.53	− 0.29	**−53.66**	16 36 5.00	46.268	+ 16.5	**10.5**	7 32 10.58	+ 0.30	+22 14 31.8	....
10	α Canis Minoris ...	11	35 2.18	− 0.16	−53.72	33 22 6.32	45.060	+ 36.4	9.5	7 34	.....	.. ..	....
11	β Geminorum	11	40 10.72	− 0.34	−53.60	10 36 4.32	42.620	+ 10.4	9.9	7 39	.....	.. ..	....
12	Moon I..........	11	49 58.76	− 0.25	**−53.68**	22 58	......	....	....	7 49 4.83	+69.05	.. ..	....
13	46 Leonis Minoris ..	11	48 42.63	− 0.47	−53.79	4 6 4.10	45.992	+ 4.0	10.5	10 47	.....	.. ..	....
14	δ Leonis	11	9 46.79	− 0.36	−53.82	17 46 4.38	48.416	+ 17.7	9.8	11 8	.....	.. ..	....
15	Mars I, C........	5	13 0.34	− 0.24	**−53.85**	32 48 6.02	45.510	+ 35.5	**10.4**	11 12 6.25	+ 0.29	+ 6 2 26.4	....
16	Mars II..........	6	13 0.87	− 0.24	**−53.85**	... .	......	....	....	11 12 6.78	− 0.24	.. ..	....
17	τ Leonis	6	23 46.99	− 0.23	−53.90	35 26 5.12	47.140	+ 39.2	10.8	11 22	.....	.. ..	....
18	υ Leonis	11	32 49.03	− 0.20	−53.89	39 8 6.15	42.924	+ 44.8	10.4	11 31	.....	.. ..	....
19	δ Ursæ Minoris....	9	5 21.84	− 6.17	[−53.64]	312 16 4.35	42.936	−1 1.8	[9.2]	18 4	.....	.. ..	....
20	η Serpentis	11	17 9.21	− 0.22	−54.15	41 46 5.72	44.101	+ 50.4	9.7	18 16	.....	.. ..	....
21	λ Sagittarii	11	22 50.13	− 0.04	−54.24	64 18 5.22	44.004	+1 57.0	8.4	18 21	.....	.. ..	....
22	1 Aquilæ..........	11	30 47.20	− 0.18	−54.09	47 10 5.58	41.354	+1 0.9	9.1	18 29	.....	.. ..	....
23	Jupiter I, S.	6	42 42.93	− 0.07	**−54.20**	61 48 6.05	47.802	+1 45.5	**8.8**	18 41 48.66	+ 1.77	−23 2 43.8	....
24	Jupiter II, N.....	5	42 46.48	− 0.07	**−54.20**	61 48 6.05	45.495	+1 45.4	**8.8**	18 41 52.21	− 1.78	−23 1 59.3	....
25	51 H. Cephei S. P ...	8	54 55.28	+ 6.86	[−55.60]	306 4 4.28	47.147	−1 17.2	[9.1]	6 54	.....	.. ..	....
26	d Sagittarii	11	12 48.84	− 0.10	−54.29	57 58 5.88	42.494	+1 30.3	7.9	19 11	.....	.. ..	....
	June 19, Y.												
27	ε Leonis	11	41 10.44	− 0.50	−54.40	14 38 6.15	42.779	+ 14.4	10.6	9 40	.....	.. ..	....
28	μ Leonis	10	48 4.71	− 0.52	−54.58	12 22 4.05	47.374	+ 12.1	10.4	9 47	.....	.. ..	....
29	α Leonis...........	10	4 2.52	− 0.40	−54.45	26 24 5.75	44.645	+ 27.2	10.8	10 3	.....	.. ..	....
30	Mars I, C........	6	14 51.37	− 0.35	**−54.55**	33 2 5.60	42.161	+ 35.6	**10.6**	11 13 56.47	+ 0.23	+ 5 49 31.1	....
31	Mars II..........	5	14 51.78	− 0.35	**−54.55**	... .	......	....	....	11 13 56.88	− 0.18	.. ..	....
32	υ Leonis...........	11	32 49.85	− 0.30	−54.62	39 8 6.50	42.934	+ 44.6	10.9	11 31	.....	.. ..	....
33	β Leonis...........	11	44 57.71	− 0.42	−54.55	23 44 6.00	43.231	+ 24.2	10.8	11 44	.....	.. ..	....
34	π Virginis	11	56 45.15	− 0.36	−54.58	31 40 6.02	47.672	+ 33.9	10.3	11 55	.....	.. ..	....
35	o Virginis	11	1 7.16	− 0.38	−54.56	29 34 6.05	44.668	+ 31.2	10.1	12 0	.....	.. ..	....
	June 19, B.												
36	θ Ophiuchi.........	11	16 54.90	− 0.09	−54.87	63 44 5.52	42.892	+1 53.7	10.0	17 15	.....	.. ..	....
37	b Ophiuchi	11	21 18.54	− 0.10	−54.86	62 54 5.72	46.198	+1 49.8	9.2	17 20	.....	.. ..	....
38	μ Sagittarii	7	8 49.71	− 0.13	−54.94	59 54 5.08	46.672	+1 37.1	10.2	18 7	.....	.. ..	....
39	λ Sagittarii	11	22 50.85	− 0.09	−54.89	64 18 6.00	44.050	+1 56.8	9.8	18 21	.....	.. ..	....
40	Saturn I, S	6	2 26.60	− 0.12	**−54.89**	60 58 5.95	47.145	+1 41.7	**9.7**	19 1 31.59	+ 0.70	−22 12 26.2	....
41	Saturn II, N	5	2 28.00	− 0.12	**−54.89**	60 58 5.95	46.138	+1 41.7	**9.7**	19 1 32.99	− 0.70	−22 12 7.1	....
42	δ Aquilæ	11	21 29.05	− 0.31	−54.83	35 56 5.90	42.682	+ 40.9	9.3	19 20	.....	.. ..	....
	June 21, B.												
43	α Leonis	11	4 4.84	− 0.24	−56.95	26 24 4.92	44.744	+ 27.0	11.8	10 3	.....	.. ..	....
44	γ¹ Leonis	..	.. ..	....	.....	18 30 3.68	46.749	+ 18.2	11.2	10 14	.....	.. ..	....
45	β Leonis Minoris ..	8	23 8.63	− 0.50	−56.87	1 38 2.48	46.384	+ 1.6	11.2	10 22	.....	.. ..	....
46	Moon I, N.......	11	28 51.09	− 0.17	**−56.93**	35 0 5.65	40.532	+ 38.0	**11.4**	10 27 53.99	+63.18	+ 3 52 0.8	....
47	δ Leonis	11	9 49.88	− 0.32	−56.98	17 46 4.00	48.518	+ 17.5	11.2	11 8	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
17 4 28	29.80	72.0	70.0
5 15	29.795	73.4	71.8
18 5 47	29.790	74.1	73.2
7 17	29.77	75.1	73.8
7 55	29.77	77.0	74.0
10 44	29.74	75.8	76.1
11 34	29.74	74.0	74.8
17 58	29.775	65.0	63.0
18 25	29.77	63.8	62.2
19 18	29.77	62.5	61.2
19 8 28	29.88	80.3	78.0
9 45	29.875	79.0	79.2
10 18	29.87	78.5	80.5
11 20	29.865	78.0	80.1
12 6	29.865	76.7	78.0
17 11	29.92	68.5	66.4
18 0	29.91	66.5	65.5
19 16	29.91	65.7	64.8
21 9 56	29.86	83.4	84.8
10 56	29.85	83.3	85.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 6, 23, 24, 40, 41.	Z. D. thread A used.
5.	Bisections at I, II, III.
6.	Bisections at V, VI, VII.
7.	Bisections at II, VI, VII.
10, 17, 38, 42.	Bisections at VI, VII.
19.	Bisections at c_1, c_2, c_3, c_4, c_5.
23, 41.	Bisections at II, VI.
24, 40.	Bisections at I, VII.
25.	Bisections at c_5, c_4, c_3, c_2, c_1.
46.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 2.3	+15 46.6	...	+15 48.9
6	+ 2.3	−15 46.7	...	−15 44.4
9	+ 3.2	....	− 0.3	+ 2.9
15	+ 3.3	....	0.0	+ 3.3
23	+ 1.8	+ 22.2	...	+ 24.0
24	+ 1.8	− 22.3	...	− 20.5
30	+ 3.4	....	0.0	+ 3.4
40	+ 0.9	+ 9.5	...	+ 10.4
41	+ 0.9	− 9.6	...	− 8.7
46	+31 51.7	−15 14.3	...	+16 37.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ν Ursæ Majoris	11	14 7.25	− 0.46	−56.98	5 14 2.88	42.450	+ 5.0	11.8	11 13	.....	.. ..	....
2	δ Crateris	8	15 22.69	0.00	[57.21]	53 4	......	....	....	11 14	.....	.. ..	....
3	Mars I, C	6	18 35.83	− 0.18	**−56.99**	33 26 4.28	48.836	+ 35.9	**11.4**	11 17 38.66	+ 0.29	+ 5 23 24.9	....
4	Mars II	5	18 36.36	− 0.18	**−56.99**	... .	......	....	....	11 17 39.19	− 0.24	.. ..	....
	June 23, B.												
5	β Leonis	11	45 2.90	− 0.31	−59.89	23 44 4.08	43.382	+ 23.9	11.8	11 44	.....	.. ..	....
6	π Virginis	11	56 50.32	− 0.25	−59.90	31 40	......	....	....	11 55	.....	.. ..	....
7	Moon I, N	11	3 39.68	− 0.16	**−59.90**	43 52 33.89	41.520	+ 52.2	**11.8**	12 2 39.62	+61.84	− 5 4 15.0	....
8	γ Corvi	11	11 45.32	− 0.07	−59.98	55 49 58.30	44.665	+1 19.8	12.0	12 10	.....	.. ..	....
9	η Virginis	11	15 52.83	0.20	−59.82	38 58 4.05	44.229	+ 43.9	11.7	12 14	.....	.. ..	....
10	θ Ophiuchi	11	17 0.48	+ 0.02	−60.53	63 44 4.38	43.215	+1 51.0	12.4	17 15	.....	.. ..	....
11	b Ophiuchi	11	21 24.08	+ 0.02	−60.49	62 54 4.32	46.516	+1 47.1	11.2	17 20	.....	.. ..	...
12	γ² Sagittarii	11	0 31.83	+ 0.08	−60.59	69 14 3.30	45.922	+2 24.1	12.3	17 59	.....	.. ..	....
13	δ Ursæ Minoris	6	5 30.18	− 7.50	[−60.84]	312 16 2.90	42.912	−1 0.2	[10.4]	18 4	.....	.. ..	....
14	1 Aquilæ	11	30 53.46	0.12	−60.35	47 10 3.70	41.665	+ 59.2	11.9	18 29	.....	.. ..	....
15	Jupiter I, N	8	40 7.75	+ 0.01	**−60.58**	61 52 3.78	43.578	+1 42.7	**12.0**	18 39 7.18	+ 1.94	−23 5 14.5	....
16	Jupiter II, S	3	40 11.63	+ 0.01	**−60.58**	61 52 3.78	46.025	+1 42.8	**12.0**	18 39 11.06	1.94	−23 6 1.4	....
17	51 H. Cephei S. P.	5	54 57.46	+ 8.65	[−59.67]	306 4 2.70	47.175	−1 15.0	[10.2]	6 54	.....	.. ..	....
18	Saturn I, S	5	1 19.86	0.00	**−60.62**	61 0 4.32	47.565	+1 39.2	**12.0**	19 0 19.24	+ 0.73	22 14 27.8	....
19	Saturn II, N	6	1 21.32	0.00	**−60.62**	61 0 4.32	46.662	+1 39.2	**12.0**	19 0 20.70	− 0.73	−22 14 10.7	....
	June 23, Y.												
20	α Tauri	11	31 16.77	− 0.31	−60.80	22 32 3.72	45.830	+ 22.7	10.4	4 30	.....	.. ..	....
21	ι Aurigæ	11	51 35.43	− 0.47	−60.78	5 50 0.62	47.216	+ 5.6	10.8	4 50	.....	.. ..	....
22	β Tauri	11	21 4.62	− 0.44	−60.83	10 20 2.70	44.209	+ 10.0	11.4	5 20	.....	.. ..	....
23	δ Orionis	11	27 58.88	− 0.19	−60.82	39 12 5.40	47.790	+ 44.5	12.2	5 26	.....	.. ..	....
	June 24, Y.												
24	Sun I, S	11	10 33.90	− 0.40	**−60.88**	15 38 3.78	44.717	+ 15.3	**11.4**	6 9 32.62	+68.86	+23 9 51.7	....
25	Sun II, N	11	12 51.63	− 0.40	**−60.88**	15 6 3.30	46.043	+ 14.8	**11.4**	6 11 50.35	−68.87	+23 41 24.1	....
26	γ Geminorum	11	33 2.05	− 0.34	−60.96	22 22 3.18	44.886	+ 22.4	10.8	6 32	.....	.. ..	....
27	ε Geminorum	11	38 53.08	− 0.42	−60.92	13 38 4.55	43.072	+ 13.2	12.0	6 37	.....	.. ..	....
28	Venus I, C	6	16 13.47	− 0.42	**−60.94**	15 20 5.12	47.350	+ 15.0	**11.4**	7 15 12.11	+ 0.34	+23 30 13.8	....
29	Venus II	5	16 14.12	− 0.42	**−60.94**	... .	......	....	....	7 15 12.76	− 0.31	.. ..	....
30	α Canis Minoris	11	35 9.54	− 0.26	−60.96	33 22 5.02	45.342	+ 35.8	11.6	7 34	.....	.. ..	....
31	Mercury I, C	11	47 44.56	− 0.40	**−60.97**	18 32 3.32	45.700	+ 18.2	**11.4**	7 46 43.19	+ 0.35	+20 18 43.6	....
32	β Cancri	11	12 11.27	− 0.30	−60.93	29 22 4.98	43.373	+ 30.5	11.9	8 11	.....	.. ..	....
33	β Corvi	11	30 15.06	+ 0.04	−61.35	61 40 5.35	47.692	+1 39.9	10.3	12 27	.....	.. ..	....
34	Moon I, N	11	50 23.77	0.10	**−61.25**	48 0 4.65	45.293	+1 0.2	**10.6**	12 49 22.42	+62.01	− 9 13 7.3	....
35	θ Virginis	11	5 53.42	− 0.14	−61.20	43 50 3.02	48.864	+ 52.2	10.1	13 4	.....	.. ..	....
36	α Virginis	11	21 2.75	− 0.08	−61.22	49 28 3.98	48.479	+1 3.6	11.3	13 20	.....	.. ..	....
37	α Ophiuchi	11	31 25.31	− 0.30	[61.24]	26 12 6.85	47.265	+ 27.1	[10.4]	17 30	.....	.. ..	....
38	θ Herculis	11	53 56.45	− 0.54	[−61.21]	1 36 3.05	42.792	+ 1.6	[11.1]	17 52	.....	.. ..	....
39	δ Ursæ Minoris	11	5 30.52	− 7.46	[−61.24]	312 16 3.20	42.859	−1 0.4	[9.9]	18 4	.....	.. ..	....
40	51 H. Cephei S. P.	11	54 59.76	+ 8.51	[−61.87]	306 4 4.00	47.031	−1 15.5	[10.0]	6 54	.....	.. ..	....
41	ι Lyræ	11	4 51.27	− 0.52	[−61.26]	2 54 2.70	46.212	+ 2.9	[11.4]	19 3	.....	.. ..	....
	June 24, B.												
42	α Tauri	11	31 17.60	− 0.30	−61.62	22 32 4.48	45.831	+ 22.7	11.1	4 30	.....	.. ..	....
43	β Tauri	11	21 5.31	− 0.41	−61.54	10 20 3.10	44.201	+ 10.0	11.7	5 20	.....	.. ..	....
44	δ Orionis	9	27 59.73	− 0.16	−61.69	39 12 5.58	47.782	+ 44.6	12.4	5 26	.....	.. ..	....
45	α Orionis	11	50 51.69	− 0.22	−61.68	31 28 5.25	43.296	+ 33.4	12.7	5 49	.....	.. ..	....
	June 25, B.												
46	Sun I, N	11	14 43.94	− 0.36	**−61.66**	15 6 3.65	50.203	+ 14.8	**11.9**	6 13 41.92	+68.92	+23 40 7.6	....
47	Sun II, S	11	17 1.78	− 0.36	**−61.67**	15 38 3.72	48.575	+ 15.4	**11.9**	6 15 59.75	−68.91	+23 8 35.0	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
21 11 23	29.85	82.5	83.5
23 11 28	29.685	83.0	81.5
17 9	29.70	74.9	75.0
17 50	29.7	75.0	75.0
19 8	29.70	75.0	75.0
4 37	29.82	81.2	80.0
5 25	29.82	82.0	81.3
24 6 13	29.803	82.8	82.3
6 50	29.820	83.8	83.1
8 2	29.81	85.9	83.6
8 20	29.81	87.0	84.2
12 57	29.795	83.1	84.1
13 25	29.80	81.6	81.5
18 16	29.83	75.5	75.6
19 14	29.835	74.4	73.2
4 28	29.95	83.5	82.5
5 24	29.96	84.5	82.8
5 52	29.955	85.0	83.0
25 6 17	29.950	85.3	83.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7, 15, 16, 18, 19, 24, 25, 34, 46, 47.	Z. D. thread A used.
7, 34.	Bisections at III, IV, V.
13.	Bisections at c_1, c_3, c_4, c_5.
15, 19.	Bisections at II, VI.
16, 18.	Bisections at I, VII.
17.	Bisections at c_1, b_3, b_2, b_1.
20.	Bisections at II, VII.
24, 46.	Bisections at I, II, III.
25, 47.	Bisections at V, VI, VII.
28.	Bisections at I, II, VII.
32.	Bisections at I, II, VI.
39.	Bisections at c_1, c_2, c_3, c_4, c_5.
40.	Bisections at c_5, c_4, c_3, c_2, c_1.
41.	Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 3.3	....	0.0	+ 3.3
7	+37 46.9	−14 55.5	...	+22 51.4
15	+ 1.8	− 23.4	...	− 21.6
16	+ 1.8	+ 23.5	...	+ 25.3
18	+ 0.9	+ 8.5	...	+ 9.4
19	+ 0.9	− 8.6	...	− 7.7
24	+ 2.3	+15 46.2	...	+15 48.5
25	+ 2.3	−15 46.2	...	−15 43.9
28	+ 1.4	....	0.0	+ 1.4
31	+ 4.0	....	− 0.6	+ 3.4
34	+40 17.6	−14 50.2	...	+25 27.4
46	+ 2.3	−15 46.3	...	−15 44.0
47	+ 2.3	+15 46.3	...	+15 48.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α² Geminorum	11	29 20.49	— 0.45	—61.71	6 44 2.32	47.949	+ 6.5	12.3	7 28	.....	.. ..	....
2	α Canis Minoris....	11	35 10.30	— 0.21	—61.78	33 22 3.88	45.405	+ 35.9	11.8	7 34	... .	.. ..	....
3	β Geminorum	11	40 18.85	— 0.41	—61.64	10 36 2.65	42.799	+ 10.2	11.2	7 39	.....	.. ..	....
4	Mercury I, C.....	11	49 6.19	— 0.33	—**61.72**	18 50 3.50	47.711	+ 18.6	**11.9**	7 48 4.14	+ 0.35	+20 0 4.9	....
5	α Virginis.........	11	21 3.49	— 0.13	—61.92	49 28 4.72	48.400	+1 3.9	10.8	13 20	.....	.. ..	....
6	ζ Virginis.........	11	30 43.75	— 0.21	—61.92	38 56 3.98	45.245	+ 44.1	11.2	13 29	.....	.. ..	....
7	Moon I, N.......	11	37 45.19	— 0.11	—**61.92**	51 44 5.62	47.997	+1 9.4	**11.2**	13 36 43.16	+62.64	—12 58 8.7	....
8	κ Virginis.........	11	8 41.99	— 0.13	—61.92	48 38 3.42	48.838	+1 2.2	11.3	14 7	.....	.. ..	....
9	λ Virginis.........	11	14 50.36	— 0.11	—61.96	51 44 3.48	48.870	+1 9.5	11.4	14 13	.....	.. ..	....
	June 25, Br.												
10	η Tauri	9	42 40.24	— 0.42	—62.31	15 4 3.82	42.062	+ 14.8	10.9	3 41	.....	.. ..	....
11	ζ Persei...........	11	48 58.89	— 0.50	—62.27	7 16 3.22	44.349	+ 7.0	11.1	3 47	.....	.. ..	....
12	α Tauri	11	31 18.45	— 0.36	—62.38	22 32 4.78	45.779	+ 22.7	10.6	4 30	.....	.. ..	....
13	β Orionis..........	11	10 50.21	— 0.17	—62.42	47 10 4.35	42.612	+ 58.9	11.6	5 9	.....	.. ..	....
	June 26, Br.												
14	Sun I, N.........	11	18 54.10	— 0.43	—**62.41**	15 10 3.85	42.878	+ 14.9	**11.6**	6 17 51.26	+68.86	+23 38 27.5	....
15	Sun II, S........	11	21 11.82	— 0.43	—**62.41**	15 42 3.05	41.308	+ 15.4	**11.6**	6 20 8.98	—68.86	+23 6 54.8	....
16	β Canis Minoris....	10	22 50.89	— 0.31	—62.50	30 22 4.68	43.555	+ 31.9	12.1	7 21	.....	.. . .	....
17	Venus I, C.......	6	26 51.57	— 0.43	—**62.45**	15 38 3.62	44.182	+ 15.3	**11.9**	7 25 48.69	+ 0.40	+23 13 15.8	....
18	Venus II	5	26 52.34	— 0.43	—**62.45**	... .	......	....	....	7 25 49.46	— 0.37	.. ..	....
19	α Canis Minoris....	11	35 11.08	— 0.29	—62.47	33 22 4.02	45.394	+ 35.9	11.8	7 34	.....	.. ..	....
20	β Geminorum	11	40 19.65	— 0.47	—62.38	10 36 2.82	42.829	+ 10.2	11.8	7 39	.....	.. ..	....
21	Mercury I, C	11	50 8.83	— 0.40	—**62.46**	19 10 3.60	41.948	+ 18.9	**11.9**	7 49 5.97	+ 0.36	+19 41 55.1	....
22	κ Virginis.........	11	8 42.79	— 0.19	—62.67	48 38 4.32	48.708	+1 2.6	12.0	14 7	.....	.. ..	....
23	λ Virginis.........	11	14 51.16	— 0.17	—62.71	51 44 4.07	48.830	+1 9.9	11.8	14 13	.....	.. ..	....
24	Moon I, N.......	11	26 23.21	— 0.14	—**62.67**	54 58 8.52	43.978	+1 18.7	**11.8**	14 25 20.40	+63.61	—16 11 3.2	....
25	ε Bootis...........	11	41 45.59	— 0.48	—62.59	11 22 2.40	43.711	+ 11.1	11.6	14 40	.....	.. ..	....
26	α² Libræ...........	11	46 30.32	— 0.14	—62.73	54 28 3.40	44.961	+1 17.2	11.8	14 45	.....	.. ..	....
27	Uranus C, C	11	51 55.74	— 0.09	—**62.91**	61 20 3.92	47.838	+1 41.4	**12.4**	16 50 52.74	.....	—22 31 19.8	....
28	η Ophiuchi........	11	5 49.04	— 0.14	—62.97	54 26 3.50	45.331	+1 17.6	12.9	17 4	.....	.. ..	....
29	α¹ Herculis.........	11	11 14.40	— 0.36	[—62.67]	24 20 4.02	46.778	+ 25.2	11.9	17 10	.....	.. ..	....
30	θ Ophiuchi........	11	17 2.99	— 0.06	—62.94	63 44 3.62	43.197	+1 52.1	13.0	17 15	.....	.. ..	....
31	b Ophiuchi........	11	21 26.64	— 0.07	—62.94	62 54 3.75	46.511	+1 48.3	11.7	17 20	.....	.. ..	....
	June 27, Y.												
32	γ Scorpii..........	9	59 23.78	— 0.07	—63.50	63 42 3.00	48.960	+1 51.0	13.8	14 58	.....	.. ..	....
33	β Libræ...........	11	12 47.77	— 0.21	—63.42	47 52 3.28	43.294	+1 0.8	13.1	15 11	.....	.. ..	....
34	Moon N	..	.. ..	....	.....	57 31 48.42	39.002	+1 26.5	**13.3**	15 16	.....	—18 43 14.0	....
35	δ Ophiuchi........	11	10 16.58	— 0.24	—63.40	42 16 3.38	47.641	+ 50.1	13.1	16 9	.....	.. ..	....
	June 27, B.												
36	ζ Persei...........	11	49 0.36	— 0.46	—63.73	7 16 3.10	44.421	+ 7.0	12.3	3 47	.....	.. ..	....
37	ε Persei...........	11	52 18.56	— 0.55	—63.65	359 8 2.18	44.752	— 0.8	11.6	3 51	.....	.. ..	....
38	α Tauri	11	31 19.94	— 0.32	—63.87	22 32 4.52	45.854	+ 22.6	11.7	4 30	.....	.. ..	....
39	ι Aurigæ..........	11	51 38.61	— 0.47	—63.86	5 50 0.82	47.252	+ 5.6	11.6	4 50	.....	.. ..	....
	June 28, B.												
40	Sun I, N.........	11	27 13.50	— 0.38	—**63.88**	15 14 3.30	44.865	+ 14.8	**12.4**	6 26 9.24	+68.84	+23 33 50.8	....
41	Sun II, S........	11	29 31.19	— 0.38	—**63.88**	15 46 3.15	43.242	+ 15.4	**12.4**	6 28 26.93	—68.85	+23 2 18.4	....
42	α² Geminorum	11	29 22.74	— 0.46	—63.94	6 44 1.80	48.069	+ 6.4	13.8	7 28	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
25 7 30	29.96	86.5	84.0
7 53	29.96	87.2	84.4
13 13	29.90	83.0	82.0
14 0	29.91	81.5	81.5
14 18	29.91	80.5	79.8
3 38	30.04	82.0	81.3
3 54	30.04	82.9	82.2
4 35	30.05	84.5	83.8
5 13	30.05	84.6	83.8
26 6 21	30.05	85.6	84.9
7 17	30.04	86.1	85.8
7 55	30.03	87.1	86.1
14 2	30.01	80.9	79.0
14 53	30.005	79.0	77.6
16 45	30.01	76.5	75.2
17 28	30.01	75.9	74.6
27 15 6	29.92	80.0	78.0
15 42	29.90	79.0	76.9
16 16	29.89	78.0	76.7
3 40	29.885	81.4	81.7
4 34	29.88	83.1	83.7
4 56	29.88	84.0	83.7
28 6 29	29.87	86.3	85.9
7 15	29.85	87.0	87.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7, 14, 15, 24, 34, 40, 41.	Z. D. thread A used.
7, 24.	Bisections at II, III, IV, V, VI.
8, 32.	Bisections at I, II.
14, 40.	Bisections at I, II, III.
15, 41.	Bisections at V, VI, VII.
30.	Bisections at II, VI, VII.
34.	Bisections at III, IV, V.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 4.2	....	— 0.6	+ 3.6
7	+42 28.2	—14 47.8	...	+27 40.4
14	+ 2.3	—15 46.3	...	—15 44.0
15	+ 2.3	+15 46.4	...	+15 48.7
17	+ 1.4	....	0.0	+ 1.4
21	+ 4.3	....	— 0.7	+ 3.6
24	+44 18.3	14 48.2	...	+29 30.1
27	+ 0.4	....	...	+ 0.4
34	+45 47.2	—14 51.1	...	+30 56.1
40	+ 2.3	—15 46.1	...	—15 43.8
41	+ 2.4	+15 46.2	...	+15 48.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Venus I, C	6	37 26.37	− 0.37	**−63.93**	15 58 3.70	43.115	+ 15.5	**12.8**	7 36 22.07	+ 0.45	+22 53 36.9	....
2	Venus II	5	37 27.24	− 0.37	**−63.93**	... .	......	....	....	7 36 22.94	− 0.42	.. ..	....
3	α Hydræ	11	23 48.90	− 0.12	−64.08	47 4 4.40	46.105	+ 57.8	13.5	9 22	.....	.. ..	....
4	ε Leonis	11	41 19.88	− 0.39	−64.01	14 38 3.62	43.029	+ 14.1	12.4	9 40	.....	.. ..	....
5	μ Leonis	11	48 13.93	− 0.41	−63.98	12 22 2.68	47.610	+ 11.9	13.2	9 47	.....	.. ..	....
6	δ Scorpii	11	55 37.13	− 0.04	−64.46	61 10 3.22	45.490	+1 39.1	13.6	15 54	.....	.. ..	....
7	β¹ Scorpii	11	0 49.21	− 0.07	−64.52	58 22 3.40	44.906	+1 28.6	13.0	15 59	.....	.. ..	....
8	Moon I, N	11	8 55.60	− 0.06	**−64.47**	59 12 2.82	45.621	+1 31.8	**13.1**	16 7 51.07	+65.87	−20 25 40.8	....
9	α Scorpii	11	24 28.80	0.00	−64.45	65 2 4.42	45.429	+1 57.1	13.4	16 23	.....	.. ..	....
10	ζ Ophiuchi	11	32 50.77	− 0.17	−64.44	49 12 3.68	45.700	+1 3.4	12.4	16 31	.....	.. ..	....
	June 28, Br.												
11	η Tauri	11	42 42.85	− 0.42	−64.84	15 4 3.68	42.090	+ 14.6	11.3	3 41	.....	.. ..	....
12	ζ Persei	11	49 1.50	− 0.50	−64.80	7 16 3.08	44.435	+ 7.0	12.6	3 47	.....	.. ..	....
13	α Tauri	11	31 21.05	− 0.38	−64.90	22 32 4.20	45.908	+ 22.5	12.4	4 30	.....	.. ..	....
14	ι Aurigæ	10	51 39.68	− 0.54	−64.84	5 50 2.32	47.204	+ 5.6	12.2	4 50	.....	.. ..	....
15	β Tauri	11	21 8.74	− 0.51	−64.79	10 20 2.75	44.269	+ 9.9	12.4	5 20	.....	.. ..	....
	June 29, Br.												
16	Sun I, S	11	31 23.32	− 0.48	**−64.90**	15 50 3.12	39.992	+ 15.3	**12.6**	6 30 17.94	+68.91	+22 59 24.1	....
17	Sun II, N	11	33 41.14	− 0.48	**−64.90**	15 18 3.55	41.110	+ 14.7	**12.6**	6 32 35.76	−68.91	+23 30 59.8	....
18	α² Geminorum	11	29 23.87	− 0.59	−64.93	6 44 2.60	47.991	+ 6.4	13.0	7 28	.....	.. ..	....
19	α Canis Minoris	11	35 13.66	− 0.36	−64.97	33 22 4.15	45.459	+ 35.2	12.7	7 34	.....	.. ..	....
20	Venus I, C	6	42 43.15	− 0.50	**−64.94**	16 8 2.98	45.763	+ 15.5	**12.9**	7 41 37.71	+ 0.37	+22 42 46.3	....
21	Venus II	5	42 43.86	− 0.50	**−64.94**	... .	......	....	....	7 41 38.42	− 0.34	.. ..	....
22	α Lyncis	11	16 8.56	− 0.66	−64.98	4 2 2.42	47.081	+ 3.8	13.0	9 15	.....	.. ..	....
23	α Hydræ	11	23 49.94	− 0.26	−64.99	47 4 4.02	46.156	+ 57.1	13.5	9 22	.....	.. ..	....
24	α Scorpii	11	24 29.96	− 0.04	−65.57	65 2 3.50	45.436	+1 57.4	12.9	16 23	.....	.. ..	....
25	ζ Ophiuchi	11	32 51.88	− 0.18	−65.54	49 12 4.40	45.702	+1 3.6	13.4	16 31	.....	.. ..	....
26	Uranus C, C	11	51 29.88	− 0.08	**−65.58**	61 20 3.05	45.574	+1 40.3	**13.0**	16 50 24.22	.....	−22 30 33.8	....
27	Moon I	11	2 47.52	− 0.09	**−65.58**	60 16	......	....	....	17 1 41.85	+66.74	.. ..	....
28	θ Ophiuchi	11	17 5.65	− 0.06	−65.58	63 44 3.65	43.311	+1 51.0	13.4	17 16	.....	.. ..	....
29	b Ophiuchi	11	21 29.33	− 0.06	−65.62	62 54 3.65	46.605	+1 47.2	12.3	17 20	.....	.. ..	....
30	1 Aquilæ	11	30 58.83	− 0.19	−65.58	47 10 3.25	41.735	+ 59.4	13.6	18 29	.....	.. ..	....
31	Jupiter I, N	6	36 54.75	− 0.07	**−65.64**	61 56 3.70	42.952	+1 43.3	**13.0**	18 35 49.04	+ 1.80	−23 9 1.8	....
32	Jupiter II, S	5	36 58.36	− 0.07	**−65.64**	61 56 3.70	45.515	+1 43.4	**13.0**	18 35 52.65	− 1.81	−23 9 51.3	....
33	σ Sagittarii	11	50 17.67	− 0.04	−65.72	65 14 4.12	45.900	+1 59.1	12.8	18 49	.....	.. ..	....
34	Saturn I, N	6	59 33.88	− 0.08	**−65.65**	61 4 4.12	43.755	+1 39.8	**13.0**	18 58 28.15	+ 0.72	−22 17 14.2	....
35	Saturn II, S	5	59 35.32	− 0.08	**−65.65**	61 4 4.12	44.918	+1 39.8	**13.0**	18 58 29.59	− 0.72	−22 17 36.6	....
36	d Sagittarii	11	13 0.44	− 0.11	−65.69	57 58 4.05	42.904	+1 28.0	12.4	19 11	.....	.. ..	....
37	δ Aquilæ	11	21 39.96	− 0.28	−65.61	35 56 4.55	42.995	+ 40.0	13.0	19 20	.....	.. . .	....
	June 30, B.												
38	θ Ophiuchi	9	17 6.51	− 0.02	−66.48	63 44 3.50	43.384	+1 49.7	13.3	17 16	.....	.. ..	....
39	b Ophiuchi	11	21 30.18	− 0.03	−66.50	62 54 3.88	46.664	+1 46.0	12.4	17 20	.....	.. ..	....
40	Moon I, S	11	57 48.05	− 0.06	**−66.51**	60 8 4.28	44.599	+1 34.8	**13.4**	17 56 41.48	+67.21	−21 21 25.4	....
41	γ² Sagittarii	8	0 37.98	+ 0.04	−66.63	69 14	......	....	....	17 59	.....	.. ..	....
42	δ Ursæ Minoris	7	5 36.41	− 7.71	[−67.48]	312 16 1.58	42.869	− 59.6	[11.3]	18 4	.....	.. ..	....
43	η Serpentis	11	17 21.55	− 0.22	−66.36	41 46 2.98	44.472	+ 48.6	13.7	18 16	.....	.. ..	....
44	λ Sagittarii	11	23 2.49	− 0.01	−66.47	64 18 4.00	44.675	+1 52.7	13.8	18 21	.....	.. ..	....
45	Jupiter I, N	6	36 22.32	− 0.04	**−66.48**	61 56 3.75	44.915	+1 42.1	**13.4**	18 35 15.80	+ 1.83	−23 9 37.9	....
46	Jupiter II, S	5	36 25.98	− 0.04	**−66.48**	61 56 3.75	47.260	+1 42.1	**13.4**	18 35 19.46	− 1.83	−23 10 24.7	....
47	σ Sagittarii	11	50 18.55	0.00	−66.63	65 14 2.65	46.098	+1 57.7	13.7	18 49	.....	.. ..	....
48	51 H. Cephei S. P.	5	55 4.16	+ 8.73	[−66.26]	306 4 1.88	47.088	−1 14.3	[12.2]	6 54	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
28 9 17	29.82	88.4	88.3
9 51	29.81	88.4	88.8
15 47	29.79	81.1	79.4
16 35	29.79	79.4	78.0
3 38	29.79	83.0	83.2
3 58	29.79	83.9	83.7
4 35	29.795	86.1	86.0
4 56	29.795	87.1	87.0
5 25	29.785	88.4	88.2
29 6 33	29.785	90.5	90.5
7 52	29.76	92.0	92.2
9 27	29.745	93.4	92.9
16 16	29.735	78.5	76.1
16 47	29.73	77.2	75.6
17 32	29.73	76.0	74.8
18 44	29.735	74.9	73.6
19 25	29.74	74.7	73.5
30 17 10	29.88	85.5	84.0
17 44	29.88	84.2	83.2
18 40	29.88	83.5	82.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

8, 16, 17, 31, 32, 34, 35, 40, 45, 46.	Z. D. thread A used.
8, 40.	Bisections at II, III, IV, V, VI.
16.	Bisections at I, II, III.
17.	Bisections at V, VI, VII.
20.	Bisections at II, VI, VII.
31, 34, 45.	Bisections at I, VII.
32, 35.	Bisections at II, VI.
42.	Bisections at c_1, c_2, c_3, c_4, c_5.
44.	Bisections at I, II.
46.	Bisection at VI.
48.	Bisections at c_5, c_4, c_3, c_2, c_1.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 1.5	....	0.0	+ 1.5
8	+46 54.0	−14 56.0	...	+31 58.0
16	+ 2.4	+15 47.8	...	+15 50.2
17	+ 2.3	−15 47.8	...	−15 45.5
20	+ 1.5	....	0.0	+ 1.5
26	+ 0.4	....	...	+ 0.4
31	+ 1.9	− 24.7	...	− 22.8
32	+ 1.9	+ 24.8	...	+ 26.7
34	+ 0.9	− 11.2	...	− 10.3
35	+ 0.9	+ 11.2	...	+ 12.1
40	+48 6.9	+15 10.5	− 1.4	+63 16.0
45	+ 1.9	− 23.4	...	− 21.5
46	+ 1.9	+ 23.4	...	+ 25.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Saturn I, S......	5	59 15.98	− 0.04	**−66.46**	61 4 4.28	46.548	+1 38.6	**13.4**	18 58 9.48	+ 0.78	−22 18 6.5	....
2	Saturn II, N.....	6	59 17.53	− 0.04	**−66.46**	61 4 4.28	45.528	+1 38.6	**13.4**	18 58 11.03	− 0.77	−22 17 46.8	....
	June 30, Y.												
3	ι Aurigæ..........	5	52 11.50	− 0.58	−66.57	5 50	......	....	....	4 50	.....	.. ..	....
4	β Orionis..........	11	10 54.68	− 0.19	−66.78	47 10 2.70	42.882	+ 57.9	15.0	5 9	.....	.. ..	....
5	β Tauri	11	21 10.67	− 0.52	−66.67	10 20 2.22	44.341	+ 9.8	13.2	5 20	.....	.. ..	....
6	α Orionis..........	11	50 56.95	− 0.32	−66.75	31 28 4.02	43.416	+ 32.8	13.8	5 49	.....	.. ..	....
	July 1, Y.												
7	Sun I, N	3	39 42.07	− 0.47	**−66.77**	15 24 3.02	44.775	+ 14.8	**13.8**	6 38 34.83	+68.71	+23 23 54.2	....
8	Sun II, S........	11	41 59.50	− 0.47	**−66.77**	15 56 2.52	43.043	+ 15.3	**13.8**	6 40 52.26	−68.72	+22 52 24.4	....
9	α² Geminorum	11	29 25.73	− 0.56	−66.80	6 44 1.92	48.018	+ 6.4	13.3	7 28	.....	.. ..	....
10	α Canis Minoris....	10	35 15.52	− 0.31	−66.87	33 22 3.25	45.550	+ 35.1	13.6	7 34	.....	.. ..	....
11	β Geminorum	11	40 24.12	− 0.52	−66.78	10 36 2.12	42.985	+ 10.0	13.7	7 39	.....	.. ..	....
12	θ Ophiuchi........	11	17 7.64	0.00	−67.62	63 44 1.98	43.499	+1 49.8	14.1	17 16	.....	.. ..	....
13	γ² Sagittarii........	11	0 39.14	+ 0.06	−67.80	69 14 3.45	46.138	+2 22.8	14.9	17 59	.....	.. ..	....
14	μ Sagittarii........	11	9 2.46	− 0.04	−67.65	59 54 2.70	47.140	+1 33.8	13.7	18 7	.....	.. ..	....
15	1 Aquilæ..........	11	31 0.84	− 0.18	−67.58	47 10 2.80	41.875	+ 58.8	15.0	18 29	.....	.. ..	....
16	Jupiter I, S......	5	35 50.35	− 0.02	**−67.54**	61 58 3.95	43.032	+1 42.3	**14.5**	18 34 42.79	+ 1.66	−23 11 1.1	....
17	Jupiter II, N......	5	35 53.68	− 0.02	**−67.54**	61 58 3.95	40.675	+1 42.3	**14.5**	18 34 46.12	− 1.67	−23 10 16.1	....
18	Moon II, N......	11	55 28.96	− 0.06	**−67.58**	58 12 3.82	44.700	+1 27.9	**14.5**	18 54 21.32	−67.24	−19 25 18.9	....
19	Saturn I, N......	5	58 58.28	− 0.03	**−67.58**	61 6 3.60	40.805	+1 38.6	**14.5**	18 57 50.67	+ 0.65	−22 18 16.8	....
20	Saturn II, S	5	58 59.59	− 0.03	**−67.58**	61 6 3.60	41.905	+1 38.7	**14.5**	18 57 51.98	− 0.66	−22 18 37.3	....
21	d Sagittarii........	11	13 2.38	− 0.07	−67.64	57 58 2.38	43.159	+1 26.9	14.6	19 11	.....	.. ..	....
22	κ Aquilæ..........	11	32 45.51	− 0.18	−67.55	46 6 2.82	41.894	+ 56.6	14.9	19 31	.....	.. ..	....
	July 1, B.												
23	α Tauri............	10	31 23.98	− 0.35	−67.79	22 32 3.95	45.832	+ 22.3	12.6	4 30	.....	.. ..	....
24	ι Aurigæ..........	11	51 42.66	− 0.52	−67.77	5 50 0.10	47.366	+ 5.6	13.1	4 50	.....	.. ..	....
25	β Orionis..........	11	10 55.73	− 0.12	−67.89	47 10 4.82	42.715	+ 57.9	14.1	5 9	.....	.. ..	....
26	β Tauri............	11	21 11.72	− 0.47	−67.75	10 20 1.52	44.320	+ 9.8	12.8	5 20	.....	.. ..	....
	July 2, B.												
27	Sun I, S.........	11	43 51.18	− 0.41	**−67.88**	16 0 2.40	43.612	+ 15.4	**13.2**	6 42 42.89	+68.72	+22 48 15.9	....
28	Sun II, N	11	46 8.63	− 0.41	**−67.88**	15 28 2.68	44.907	+ 14.9	**13.2**	6 45 0.34	−68.73	+23 19 48.3	....
29	δ Aquilæ..........	11	21 42.80	− 0.24	−68.45	35 56 4.35	42.941	+ 40.2	12.5	19 20	.....	.. ..	....
30	κ Aquilæ..........	11	32 46.45	− 0.15	−68.51	46 6 4.15	41.635	+ 57.6	12.3	19 31	.....	.. ..	....
31	Moon II, N......	11	50 39.98	− 0.06	**−68.50**	55 40 3.75	53.582	+1 21.5	**12.4**	19 49 31.42	−66.93	−16 56 4.8	....
	July 2, Br.												
32	α Tauri	11	31 25.03	− 0.36	−68.81	22 32 4.88	45.836	+ 22.4	11.9	4 30	.....	.. ..	....
33	ι Aurigæ..........	11	51 43.74	− 0.52	−68.82	5 50 1.72	47.242	+ 5.6	12.3	4 50	.....	.. ..	....
34	β Eridani	9	4 9.03	− 0.20	−68.84	44 4 4.02	42.633	+ 52.0	12.7	5 2	.....	.. ..	....
35	β Orionis..........	11	10 56.79	− 0.18	−68.86	47 10 3.15	42.742	+ 57.9	13.1	5 9	.....	.. ..	....
36	α Orionis..........	11	50 59.08	− 0.31	−68.86	31 28 4.30	43.348	+ 32.8	13.0	5 49	.....	.. ..	....
	July 3, Br.												
37	Sun I, S.........	11	48 0.11	− 0.46	**−68.92**	16 6 3.25	38.903	+ 15.5	**12.6**	6 46 50.73	+68.64	+22 43 44.7	....
38	Sun II, N.........	11	50 17.40	− 0.46	**−68.92**	15 34 2.98	40.297	+ 15.0	**12.6**	6 49 8.02	−68.65	+23 15 15.7	....
39	α Canis Minoris....	11	35 17.63	− 0.32	−68.96	33 22 3.40	45.496	+ 35.2	12.9	7 34	.....	.. ..	....
40	β Geminorum	11	40 26.30	− 0.52	−68.95	10 36 1.98	42.940	+ 10.0	12.6	7 39	.....	.. ..	....
41	Venus I, C.......	6	3 39.10	− 0.46	**−68.97**	16 58 2.95	45.380	+ 16.3	**12.6**	8 2 29.67	+ 0.43	+21 52 53.2	....
42	Venus II	5	3 39.92	− 0.46	**−68.97**	... .	......	....	....	8 2 30.49	−0.39	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
30 19 2	29.88	83.0	82.3
4 55	30.00	92.1	91.8
5 27	30.00	92.8	92.1
5 56	30.00	94.0	93.5
1 6 41	29.995	95.2	95.0
7 45	29.99	96.6	96.5
17 23	29.97	85.5	84.7
18 5	29.965	85.2	84.1
18 43	29.955	84.8	83.5
19 21	29.955	84.5	84.1
19 40	29.955	84.3	83.9
4 32	30.00	91.5	92.2
4 58	30.00	92.5	92.2
5 27	30.00	93.2	93.0
2 6 45	29.99	95.8	95.8
19 24	29.87	76.0	73.0
19 58	29.86	74.5	72.3
4 28	29.85	88.0	87.0
5 13	29.85	90.5	89.9
5 54	29.85	91.2	90.9
3 6 50	29.84	91.8	91.5
7 45	29.82	93.5	93.1
8 9	29.81	94.7	94.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 2, 7, 8, 16, 17, 18, 19, 20, 27, 28, 31, 37, 38	Z. D. thread A used.
1, 17.	Bisections at II, VI.
2, 16.	Bisections at I, VII.
7, 27, 37.	Bisections at I, II, III.
8, 28, 38.	Bisections at V, VI, VII.
9, 26, 34.	Bisections at II, VI, VII.
14, 23.	Bisections at VI, VII.
15.	Bisections at I, II, VII.
18.	Bisections at III, IV, V.
19.	Bisection at VII.
20.	Bisection at VI.
31.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 0.9	+ 9.8	...	+ 10.7
2	+ 0.9	− 9.9	...	− 9.0
7	+ 2.3	−15 44.9	...	−15 42.6
8	+ 2.4	+15 44.8	...	+15 47.2
16	+ 1.9	+ 22.5	...	+ 24.4
17	+ 1.9	− 22.5	...	− 20.6
18	+47 35.3	−15 18.9	...	+32 16.4
19	+ 0.9	− 10.2	...	− 9.3
20	+ 0.9	+ 10.3	...	+ 11.2
27	+ 2.4	+15 46.2	...	+15 48.6
28	+ 2.3	−15 46.1	...	−15 43.8
31	+46 41.9	−15 27.6	...	+31 14.3
37	+ 2.4	+15 45.4	...	+15 47.8
38	+ 2.3	−15 45.5	...	−15 43.2
41	+ 1.6	....	0.0	+ 1.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″.	r	′ ″	″	h m s	s	° ′ ″	″
1	ϑ Ophiuchi........	11	17 9.63	+ 0.01	−69. 62	63 44 3.40	43.391	+1 50.8	14. 5	17 16	.....	.. ..	....
2	*b* Ophiuchi........	11	21 33.30	0.00	−69. 63	62 54 3.68	46.645	+1 46.9	13. 5	17 20	.....	.. ..	....
3	C. Z. XVII. 1751 .	10	28 22.34	+ 0.03	**−69. 59**	66 10 3.28	44.285	+2 4.0	**13. 8**	17 27 12.78	.....	−27 23 47.8	....
4	ϑ Herculis.........	11	54 4.67	− 0.52	[−69. 43]	1 36 2.28	42.828	+ 1.6	13. 6	17 52	.....	.. ..	....
5	δ Ursæ Minoris....	8	5 38.02	− 7.42	[−69. 83]	312 16	......	....	....	18 4	.....	.. ..	....
6	ι Aquilæ..........	11	31 2.76	− 0.13	−69. 53	47 10 3.30	41.724	+ 59.3	13. 8	18 29	.....	.. ..	....
7	Jupiter I, S	6	34 45.80	0.00	**−69. 60**	61 58 3.90	46.530	+1 43.3	**13. 6**	18 33 36.20	+ 1.69	−23 12 12.4	....
8	Jupiter II, N	5	34 49.18	0.00	**−69. 60**	61 58 3.90	44.252	+1 43.3	**13. 6**	18 33 39.58	− 1.69	−23 11 26.5	....
9	β Lyræ	11	47 38.80	− 0.47	[−69. 44]	5 36	......	....	....	18 46	.....	.. ..	....
10	51 H. Cephei S. P ...	3	55 9.07	+ 8.55	[−70. 65]	306 4	......	....	....	6 54	.....	.. ..	....
11	Saturn I, N......	6	58 22.50	− 0.01	**−69. 60**	61 6 3.60	44.055	+1 39.7	**13. 4**	18 57 12.89	+ 0.74	−22 19 18.9	....
12	Saturn II, S.....	5	58 23.98	− 0.01	**−69. 60**	61 6 3.60	45.180	+1 39.8	**13. 4**	18 57 14.37	− 0.74	−22 19 40.8	....
13	κ Aquilæ..........	11	32 47.65	− 0.14	−69. 70	46 6 4.02	41.692	+ 57.2	13. 0	19 31	.....	.. ..	....
14	β Sagittæ	11	37 49.63	− 0.32	−69. 63	21 36 4.12	44.666	+ 21.9	12. 4	19 36	.....	.. ..	....
15	α Aquilæ..........	11	47 10.55	− 0.26	−69. 48	30 14 3.98	45.329	+ 32.1	12. 7	19 46	.....	.. ..	....
16	Moon II, N	11	45 9.35	− 0.08	**−69. 63**	52 18 3.58	41.879	+1 11.5	**12. 8**	20 43 59.64	−66.46	−13 30 9.8	....
17	μ Aquarii..........	11	48 32.35	− 0.12	−69. 68	48 12 3.28	42.572	+1 1.7	12. 4	20 47	.....	.. ..	....
18	ι Pegasi...........	11	18 43.82	− 0.34	−69. 60	19 28 3.22	44.593	+ 19.6	12. 9	21 17	.....	.. ..	....
19	β Aquarii..........	11	27 34.14	− 0.14	−69. 66	44 50 3.92	46.406	+ 54.9	13. 0	21 26	.....	.. ..	....
20	ξ Aquarii..........	11	33 42.20	− 0.13	−69. 66	47 8 4.08	44.522	+ 59.5	13. 1	21 32	.....	.. ..	....
	July 4, B.												
21	α Tauri............	11	31 27.08	− 0.26	−70. 92	22 32 4.70	45.911	+ 22.4	13. 4	4 30	.....	.. ..	....
22	β Orionis..........	11	10 58.81	− 0.08	−70. 95	47 10 4.15	42.685	+ 57.9	13. 5	5 9	.....	.. ..	....
	July 5, B.												
23	Sun I, S.........	11	56 16.79	− 0.36	**−71. 00**	16 14 4.70	46.000	+ 15.6	**14. 1**	6 55 5.43	+68.59	+22 33 27.9	....
24	Sun II, N.........	11	58 33.98	− 0.36	**−71. 00**	15 42 4.08	47.237	+ 15.1	**14. 1**	6 57 22.62	−68.60	+23 5 2.9	....
25	β Canis Minoris....	6	22 59.47	− 0.24	−71. 09	30 22 3.32	43.855	+ 31.3*	[16. 5]	7 21	.....	.. ..	....
26	α² Geminorum	11	29 29.79	− 0.47	−70. 92	6 44 2.28	48.132	+ 6.4	14. 9	7 28	.....	.. ..	....
27	α Canis Minoris ...	11	35 19.65	− 0.21	−71. 07	33 22 3.92	45.506	+ 35.2	13. 9	7 34	.....	.. ..	....
28	β Geminorum	11	40 28.25	− 0.43	−70. 97	10 36 2.02	43.031	+ 10.0	14. 2	7 39	.....	.. ..	....
29	Venus I, C.......	5	14 0.78	− 0.36	**−71. 03**	17 26 2.55	47.695	+ 16.8	**14. 3**	8 12 49.39	+ 0.47	+21 24 10.4	....
30	Venus II	6	14 1.68	− 0.36	**−71. 03**	... .	......	...	....	8 12 50.29	− 0.43	.. ..	....
31	θ Aquarii..........	11	12 51.80	− 0.11	−71. 76	47 6 3.05	46.684	+ 58.8	13. 2	22 11	.....	.. ..	....
32	γ Aquarii	10	17 47.92	− 0.16	−71. 89	40 44 3.08	43.012	+ 47.0	13. 7	22 16	.....	.. ..	....
33	Moon II, N	11	32 6.95	− 0.13	**−71. 78**	43 20 2.32	48.264	+ 51.7	**13. 3**	22 30 55.04	−65.98	− 4 33 50.7	....
34	ζ Pegasi...........	11	37 46.72	− 0.26	−71. 80	28 32 4.15	43.874	+ 29.7	12. 8	22 36	.....	.. ..	....
35	α Pegasi...........	11	1 4.83	− 0.30	−71. 69	24 10 2.95	45.935	+ 24.6	13. 6	22 59	.....	.. ..	....
	July 5, Br.												
36	α Tauri............	11	31 28.32	− 0.41	−71. 98	22 32 3.48	46.004	+ 22.3	14. 0	4 30	.....	.. ..	....
37	ι Aurigæ..........	11	51 47.03	− 0.57	−71. 99	5 50 0.90	47.242	+ 5.5	13. 2	4 50	.....	.. ..	....
38	β Eridani..........	8	4 12.35	− 0.24	−72. 04	44 4	......	....	....	5 3	.....	.. ..	....
39	β Orionis..........	11	11 0.09	− 0.21	−72. 08	47 10 3.02	42.744	+ 57.6	13. 3	5 9	.....	.. ..	....
40	β Tauri............	11	21 16.10	− 0.52	−71. 99	10 20 2.25	44.293	+ 9.8	12. 9	5 20	.....	.. ..	....
	July 6, Br.												
41	Sun I, N.........	11	0 24.90	− 0.47	**−72. 10**	15 50 2.65	40.467	+ 15.2	**13. 4**	6 59 12.33	+68.58	+22 59 16.4	....
42	Sun II, S	11	2 42.06	− 0.47	**−72. 10**	16 22 2.38	38.838	+ 15.7	**13. 4**	7 1 29.49	−68.58	+22 27 44.4	....
43	α² Geminorum......	4	29 31.11	− 0.56	−72. 14	6 44 2.05	48.025	+ 6.3	13. 1	7 28	.....	.. ..	....
44	α Canis Minoris....	8	35 20.85	− 0.32	−72. 15	33 22 3.22	45.400	+ 35.0	12. 9	7 34	.....	.. ..	....
45	β Geminorum......	11	40 29.48	− 0.52	−72. 10	10 36 1.85	43.036	+ 10.0	14. 1	7 39	.... .	.. ..	....
	July 8, B.												
46	α Tauri............	11	31 31.26	− 0.24	−75. 02	22 32 4.20	45.781	+ 23.0	11. 3	4 30	....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
3 17 15	29. 74	77. 6	76. 5
17 33	29. 74	77. 1	76. 5
19 6	29. 73	75. 2	74. 2
19 51	29. 72	75. 0	74. 0
20 53	29. 715	74. 1	72. 8
21 38	29. 705	74. 0	72. 7
4 4 26	29. 765	86. 2	86. 0
5 2	29. 765	88. 2	88. 2
5 6 58	29. 765	91. 6	91. 6
7 32	29. 755	92. 0	91. 6
22 10	29. 67	79. 2	77. 8
23 0	29. 67	78. 0	76. 8
4 27	29. 73	89. 2	89. 0
5 15	29. 74	91. 7	90. 1
5 26	29. 74	91. 8	90. 2
6 7 2	29. 73	92. 8	92. 2
7 44	29. 72	94. 3	94. 4
8 4 27	29. 98	76. 4	75. 3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 3, 17, 18, 40, 43.	Bisections at II, VI, VII.
3, 7, 8, 11, 12, 16, 23, 24, 33, 41, 42.	Z. D. thread A used.
7.	Bisection at VII.
8, 12.	Bisections at II, VI.
11.	Bisections at I, VII.
16, 33.	Bisections at II, III, IV, V, VI.
23.	Bisection at III.
24, 42.	Bisections at V, VI, VII.
37, 44.	Bisections at VI, VII.
41.	Bisections at I, II, III.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+ 1.9	+ 22.9	...	+ 24.8
8	+ 1.9	− 23.0	...	− 21.1
11	+ 0.9	− 10.9	...	− 10.0
12	+ 0.9	+ 11.0	...	+ 11.9
16	+45 7.0	−15 36.1	...	+29 30.9
23	+ 2.4	+15 47.4	...	+15 49.8
24	+ 2.3	−15 47.5	...	−15 45.2
29	+ 1.6	....	0.0	+ 1.6
33	+39 47.9	−15 51.9	...	+23 56.0
41	+ 2.4	−15 46.0	...	−15 43.6
42	+ 2.4	+15 46.0	...	+15 48.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″.	r	′ ″	″	h m s	s	° ′ ″	″
1	ι Aurigæ	11	51 49.95	− 0.37	−75.03	5 50 1.88	47.206	+ 5.7	11.8	4 50	.....	.. ..	....
2	β Orionis	11	11 3.04	− 0.09	−75.09	47 10 3.62	42.491	+ 59.6	11.6	5 9	.....	.. ..	....
3	β Tauri	11	21 19.00	− 0.35	−74.99	10 20 1.92	44.249	+ 10.1	11.3	5 20	.....	.. ..	....
	July 9, B.												
4	Sun I, N	11	12 46.43	− 0.35	**−75.06**	16 8 3.68	45.095	+ 16.0	**12.0**	7 11 31.02	+68.43	+22 39 44.4	....
5	Sun II, S	11	15 3.29	− 0.35	**−75.06**	16 40 3.10	43.472	+ 16.6	**12.0**	7 13 47.88	−68.43	+22 8 12.6	....
6	α Canis Minoris	11	35 23.78	− 0.24	−75.14	33 22 3.50	45.398	+ 36.2	12.7	7 34	.....	.. ..	....
7	Venus I, C	6	34 30.72	− 0.36	**−75.08**	18 32 2.95	43.264	+ 18.4	**12.2**	8 33 15.28	+ 0.46	+20 19 31.3	....
8	Venus II	5	34 31.60	− 0.36	**−75.08**	... .	......	....	....	8 33 16.16	− 0.42	.. ..	....
9	α Lyncis	8	16 18.32	− 0.48	−74.95	4 2 1.90	47.230	+ 3.9	12.6	9 15	.....	.. ..	....
10	α Hydræ	11	23 59.97	− 0.17	−75.14	47 4 3.25	45.966	+ 58.8	12.0	9 22	.....	.. ..	....
11	ε Leonis	11	41 30.93	− 0.39	−75.11	14 38 4.28	42.974	+ 14.3	12.0	9 40	.....	.. ..	....
12	θ Ophiuchi	11	17 15.85	− 0.02	−75.80	63 44 4.28	43.124	+1 52.7	12.0	17 16	.....	.. ..	....
13	b Ophiuchi	11	21 39.49	− 0.03	−75.78	62 56 3.78	40.245	+1 48.8	11.9	17 20	.....	.. ..	....
14	C. Z. XVII. 1751	11	28 28.57	0.00	**−75.80**	66 12 3.15	48.039	+2 6.2	**11.6**	17 27 12.77	.....	−27 23 48.4	....
15	γ^2 Sagittarii	11	0 47.24	+ 0.03	−75.82	69 14 3.72	45.800	+2 26.5	12.0	17 59	.....	.. ..	....
16	δ Ursæ Minoris	8	5 42.99	− 6.39	[−76.59]	312 16	......	....	....	18 4	.....	.. ..	....
17	λ Sagittarii	11	23 11.80	− 0.01	−75.70	64 18 3.78	44.302	+1 55.6	11.1	18 21	.....	.. ..	....
18	Jupiter I, N	6	31 35.05	− 0.03	**−75.78**	62 0 3.48	48.405	+1 45.1	**11.6**	18 30 19.24	+ 1.81	−23 14 49.4	....
19	Jupiter II, S	5	31 38.66	− 0.03	**−75.78**	62 0 3.48	50.780	+1 45.1	**11.6**	18 30 22.85	− 1.80	−23 15 35.1	....
20	σ Sagittarii	11	50 27.79	− 0.01	−75.75	65 14 3.60	45.795	+2 0.7	11.8	18 49	.....	.. ..	....
21	51 H. Cephei S. P	8	55 15.69	+ 7.23	[−75.43]	306 4 2.28	46.896	−1 16.2	[9.8]	6 54	.....	.. ..	....
22	d Sagittarii	11	13 10.66	− 0.06	−75.83	57 58 4.18	42.720	+1 29.2	10.5	19 11	.....	.. ..	....
	July 10, Br.												
23	η Ophiuchi	11	6 3.09	− 0.12	−77.02	54 26 3.58	45.255	+1 17.2	11.6	17 4	.....	.. ..	....
24	θ Ophiuchi	11	17 17.17	− 0.04	−77.10	63 44 3.42	43.239	+1 51.6	12.3	17 16	.....	.. ..	....
25	b Ophiuchi	11	21 40.84	− 0.05	−77.11	62 54 3.68	46.515	+1 47.7	11.0	17 20	.....	.. ..	....
26	C. Z. XVII. 1751	8	28 29.95	− 0.02	**−77.08**	66 12 3.35	47.987	+2 4.9	**11.6**	17 27 12.85	.....	−27 23 47.1	....
27	θ Herculis	11	54 12.18	− 0.57	[−76.89]	1 36 1.30	42.664	+ 1.6	11.5	17 52	.....	.. ..	....
28	δ Ursæ Minoris	8	5 45.20	− 7.24	[−78.12]	312 16 2.90	42.710	−1 0.6	[11.6]	18 4	.....	.. ..	....
29	51 H. Cephei S. P	9	55 16.57	+ 8.20	[−77.16]	306 4 2.55	46.912	−1 15.6	[11.4]	6 54	.....	.. ..	....
30	ι Lyræ	11	5 7.15	− 0.55	[−76.96]	2 54 2.95	46.032	+ 2.9	[12.3]	19 3	.....	.. ..	....
	July 10, Y.												
31	γ Ceti	11	39 29.76	− 0.25	−77.32	36 2 0.88	42.955	+ 40.2	11.9	2 38	.....	.. ..	....
32	α Ceti	11	58 25.75	− 0.26	−77.37	35 8 4.20	46.170	+ 38.9	12.0	2 57	.....	.. ..	....
33	Moon II, N	10	14 15.58	− 0.37	**−77.36**	20 58 3.58	44.512	+ 21.2	**11.6**	3 12 57.85	−71.36	+17 49 48.7	....
34	η Tauri	11	42 55.72	− 0.40	−77.39	15 4 3.65	42.032	+ 14.9	11.3	3 41	.....	.. ..	....
35	ζ Persei	11	49 14.41	− 0.47	−77.38	7 16 2.95	44.348	+ 7.1	11.3	3 47	.....	.. ..	....
	July 15, Y.												
36	θ Ophiuchi	11	17 25.48	− 0.05	−85.41	63 44 3.82	43.292	+1 51.1	13.1	17 16	.....	.. ..	....
37	b Ophiuchi	7	21 49.24	− 0.06	−85.51	62 54 2.95	46.522	+1 47.3	11.9	17 20	.....	.. ..	....
38	C. Z. XVII. 1751	11	28 38.16	− 0.03	**−85.48**	66 12 3.20	48.210	+2 4.4	**12.8**	17 27 12.65	.....	−27 23 48.8	....
39	γ^2 Sagittarii	11	0 56.98	+ 0.01	−85.53	69 14 3.12	46.024	+2 24.4	13.4	17 59	.....	.. ..	....
40	δ Ursæ Minoris	5	5 52.76	− 8.49	[−85.54]	312 16 1.78	42.696	−1 0.3	[12.1]	18 4	.....	.. ..	....
41	β Lyræ	11	47 54.73	− 0.60	[−85.20]	5 36 1.28	45.394	+ 5.5	12.7	18 46	.....	.. ..	....
42	51 H. Cephei S. P	9	55 23.03	+ 9.63	[−84.07]	306 4 1.45	46.850	−1 15.2	[11.1]	6 54	.....	.. ..	....
	July 15, B.												
43	ι Aurigæ	11	52 1.05	− 0.47	−85.84	5 50 1.62	47.248	+ 5.6	12.2	4 50	.....	.. ..	....
44	β Eridani	11	4 26.43	− 0.22	−85.93	44 4 3.30	42.525	+ 52.8	12.2	5 3	.....	.. ..	....
45	β Orionis	11	11 14.17	− 0.19	−85.98	47 10 3.48	42.570	+ 58.8	13.5	5 9	.....	.. ..	....
46	β Tauri	11	21 30.19	− 0.52	−85.84	10 20 3.20	44.235	+ 10.0	12.2	5 20	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
8 5 25	29.985	79.2	77.5
9 7 15	29.98	81.0	79.7
8 40	29.96	82.6	81.2
9 47	29.96	84.7	81.8
17 6	29.95	74.0	71.3
17 51	29.94	72.2	70.7
18 37	29.94	72.0	71.0
19 9	29.935	71.3	70.2
10 17 7	29.805	75.8	74.1
17 35	29.805	74.9	73.6
18 10	29.80	74.4	73.1
19 10	29.79	73.5	72.1
2 54	29.78	75.1	74.0
3 53	29.765	77.9	76.4
15 17 12	29.82	77.4	76.1
18 13	29.81	76.6	75.7
19 6	29.80	76.2	75.4
4 45	29.805	80.5	80.0
5 23	29.80	82.2	81.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 5, 18, 19, 33. Z. D. thread A used.
4. Bisections at I, II, III.
5. Bisections at V, VI, VII.
9. Bisections at I, II.
18. Bisections at I, VII.
19. Bisections at II, VI.
21, 29, 42. Bisections at c_5, c_4, c_3, c_2, c_1.
26. Bisections at II, VI, VII.
28. Bisections at c_1, c_2 c_3, c_4, c_5.
33. Bisections at II, III, IV, V, VI.
37. Bisections at VI, VII.
40. Bisections at c_1, c_3, c_4, c_5.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 2.4	−15 45.8	...	−15 43.4
5	+ 2.5	+15 45.9	...	+15 48.4
7	+ 1.7	....	0.0	+ 1.7
18	+ 1.9	− 22.8	...	− 20.9
19	+ 1.9	+ 22.9	...	+ 24.8
33	+21 14.6	−16 16.6	...	+ 4 58.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	July 16, B.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N	10	41 26.92	− 0.42	**−86.13**	17 6 4.35	48.268	+ 16.7	**13.6**	7 40 0.37	+67.98	+21 40 43.7	....
2	Sun II, S	11	43 42.89	− 0.42	**−86.13**	17 38 2.72	46.793	+ 17.3	**13.6**	7 42 16.34	−67.99	+21 9 10.2	....
3	Venus I, C	5	9 40.60	− 0.34	**−86.26**	20 46 2.50	45.235	+ 20.4	**14.2**	9 8 14.00	+ 0.49	+18 4 54.0	....
4	Venus II	6	9 41.53	− 0.34	**−86.26**	... .	......	....	....	9 8 14.93	− 0.44	.. ..	....
5	α Lyncis	9	16 29.65	− 0.49	−86.27	4 2 1.70	47.360	+ 3.9	14.2	9 15	.....	.. ..	....
·	July 19, Br.												
6	ι Aurigæ	11	51 8.97	− 0.44	−33.67	5 50 1.48	47.222	+ 5.7	11.6	4 50	.....	.. ..	....
7	β Eridani	11	3 34.31	− 0.16	−33.78	44 4 4.25	42.414	+ 53.3	12.2	5 3	.....	.. ..	....
8	β Orionis	11	10 22.02	− 0.13	−33.80	47 10 3.15	42.471	+ 59.3	12.4	5 9	.....	.. ..	....
9	β Tauri	11	20 38.06	− 0.41	−33.71	10 20 2.02	44.224	+ 10.1	10.9	5 20	.....	.. ..	....
	July 20, Br.												
10	Sun I, S	11	56 40.68	− 0.38	**−33.94**	18 22 2.20	40.022	+ 18.2	**12.0**	7 56 6.36	+67.70	+20 27 20.9	....
11	Sun II, N	11	58 56.09	− 0.38	**−33.94**	17 50 2.55	41.187	+ 17.6	**12.0**	7 58 21.77	−67.71	+20 58 56.0	....
12	α Hydræ	11	23 18.91	− 0.17	−34.09	47 4 3.35	45.926	+ 58.4	12.2	9 22	.....	.. ..	....
13	Venus I, C	6	28 19.97	− 0.37	**−34.04**	22 14 3.30	44.825	+ 22.3	**12.0**	9 27 45.56	+ 0.40	+16 36 56.9	....
14	Venus II	5	28 20.72	− 0.37	**−34.04**	... .	......	....	....	9 27 46.31	− 0.35	.. ..	....
15	ε Leonis	11	40 49.87	− 0.43	−34.03	14 38 2.78	43.064	+ 14.2	11.6	9 40	.....	.. ..	....
16	μ Leonis	9	47 44.00	− 0.46	−34.08	12 22 1.78	47.560	+ 12.0	11.8	9 47	.....	.. ..	....
17	α Leonis	11	3 41.92	− 0.34	−34.07	26 24 3.15	44.855	+ 27.0	12.9	10 3	.....	.. ..	....
18	γ^1 Leonis	11	15 6.91	− 0.41	−34.07	18 30 2.62	46.840	+ 18.2	11.8	10 14	.....	.. ..	....
19	δ Leonis	11	9 26.83	− 0.43	−34.10	17 46 2.72	48.612	+ 17.4	11.9	11 8	.....	.. ..	....
20	υ Leonis	8	32 29.13	− 0.26	−34.23	39 8	......	....	....	11 31	.....	.. ..	....
21	Moon I, N	11	43 57.26	− 0.23	**−34.18**	41 52 6.32	41.526	+ 48.6	**12.0**	11 43 22.85	+62.28	− 3 3 43.7	....
22	γ Corvi	11	11 19.29	− 0.12	−34.20	55 50 2.55	44.368	+1 19.5	12.6	12 10	.....	.. ..	....
	July 21, B.												
23	ε Corvi	7	5 40.09	− 0.17	−35.86	60 54 3.58	45.437	+1 36.4	12.8	12 5	.....	.. ..	....
24	γ Corvi	4	11 21.10	− 0.21	−35.93	55 50 3.70	44.365	+1 19.1	13.3	12 10	.....	.. ..	....
25	δ^2 Corvi	11	25 22.77	− 0.22	−35.86	54 48 2.58	45.554	+1 16.2	13.1	12 24	.....	.. ..	....
26	Moon I, N	11	31 13.58	− 0.29	**−35.89**	46 10 2.18	44.091	+ 56.1	**13.3**	12 30 37.40	+62.14	− 7 22 35.0	....
27	ε Virginis	11	57 53.35	− 0.42	−35.86	27 22 3.52	43.331	+ 27.9	13.7	12 57	.....	.. ..	....
28	θ Virginis	11	5 28.03	− 0.30	−35.94	43 50 2.62	48.992	+ 51.8	13.6	13 4	.....	.. ..	....
29	θ Ophiuchi	11	16 36.59	− 0.01	−36.58	63 44 2.75	43.410	+1 50.6	13.7	17 16	.....	.. ..	....
30	b Ophiuchi	11	21 0.28	− 0.02	−36.61	62 54 3.02	46.691	+1 46.8	12.8	17 20	.....	.. ..	....
31	C. Z. XVII. 1751 ..	11	27 49.39	+ 0.02	**−36.48**	66 12 1.55	48.279	+2 3.9	**13.2**	17 27 12.93	.....	−27 23 47.5	....
32	δ Ursæ Minoris	8	5 0.61	− 8.30	[−34.79]	312 16 1.38	42.680	−1 0.2	[13.0]	18 4	.....	.. ..	....
33	μ Sagittarii	7	8 31.33	− 0.05	−36.43	59 54	......	....	....	18 7	.....	.. ..	....
34	η Serpentis	11	16 51.71	− 0.22	−36.45	41 46	......	....	....	18 16	.....	.. ..	....
35	Jupiter I	6	24 49.18	− 0.03	**−36.60**	62 10	......	....	....	18 24 12.55	+ 1.77	.. ..	....
36	Jupiter II	5	24 52.72	− 0.03	**−36.60**	... .	......	....	....	18 24 16.09	− 1.77	.. ..	....
37	β Lyræ	11	47 5.79	− 0.57	[−36.28]	5 36	......	....	....	18 46	.....	.. ..	....
38	51 H. Cephei S. P. ...	8	54 36.18	+ 9.42	[−35.92]	306 4	......	....	....	6 54	.....	.. ..	....
	July 23, B.												
39	ζ Virginis	8	30 20.97	− 0.26	−39.40	38 56	......	....	....	13 29	.....	.. ..	....
40	η Bootis	10	50 40.30	− 0.41	−39.36	19 58	......	....	....	13 50	.....	.. ..	....
41	π Hydræ	9	1 26.57	− 0.02	−39.54	65 2	......	....	....	14 0	.....	.. ..	....
42	Moon I	11	6 45.00	− 0.13	**−39.47**	53 52	......	....	....	14 6 5.40	+63.23	.. ..	....
43	α^2 Libræ	11	46 6.84	− 0.12	−39.53	54 28	......	....	....	14 45	.....	.. ..	....
44	γ Scorpii	11	58 59.54	− 0.04	−39.54	63 44	......	....	....	14 58	.....	.. ..	....
45	δ Ursæ Minoris	8	5 3.84	− 7.58	[−39.15]	312 16	......	....	....	18 4	.....	.. ..	....
46	1 Aquilæ	11	30 33.14	− 0.19	[−39.77]	47 10	......	....	....	18 29	.....	.. ..	....
47	α Lyræ	11	34 18.76	− 0.62	[−39.59]	0 10	......	....	....	18 33	.....	.. ..	....
48	51 H. Cephei S. P. ...	8	54 39.95	+ 8.52	[−38.43]	306 4	......	....	....	6 54	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
16 7 43	29.805	86.2	85.7
9 5	29.78	88.0	87.8
10 2	29.77	88.7	88.3
19 4 45	29.885	78.7	77.0
5 24	29.90	80.0	77.9
20 7 59	29.91	83.4	82.2
9 31	29.895	85.9	83.8
10 17	29.895	88.1	84.2
11 2	29.89	86.5	85.0
11 51	29.88	86.0	86.3
12 15	29.88	85.8	86.9
21 12 6	29.84	88.2	88.7
12 36	29.84	87.8	88.8
13 9	29.83	87.0	87.0
17 10	29.82	80.2	78.4
17 31	29.81	79.2	78.0
18 36	29.80	77.2	76.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 2, 10, 11, 21, 26.	Z. D. thread A used.
1, 10.	Bisections at I, II, III.
2, 11.	Bisections at V, VI, VII.
5.	Bisections at I, II.
16.	Bisection at VI.
21, 26.	Bisections at II, III, IV, V, VI.
23.	Bisections at II, VI, VII.
32.	Bisections at c_1, c_2, c_3, c_4, c_5.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 2.5	−15 46.7	...	−15 44.2
2	+ 2.6	+15 46.7	...	+15 49.3
3	+ 2.0	....	0.0	+ 2.0
10	+ 2.7	+15 47.5	...	+15 50.2
11	+ 2.7	−15 47.6	...	−15 44.9
13	+ 2.1	....	0.0	+ 2.1
21	+36 42.2	−15 3.4	...	+21 38.8
26	+39 21.3	−14 55.9	...	+24 25.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	July 28, B.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Ursæ Minoris....	7	5 10.57	− 6.92	[−47.94]	312 16 2.52	42.352	− 59.7	[10.3]	18 4	.....	.. ..	....
2	μ Sagittarii.......	7	8 42.80	− 0.02	−47.95	59 54 2.85	47.018	+1 33.9	11.8	18 7	.....	.. ..	....
3	η Serpentis........	11	17 3.05	− 0.16	−47.86	41 46 2.85	44.270	+ 48.7	12.7	18 16	.....	.. ..	....
4	λ Sagittarii........	11	22 43.96	+ 0.02	−47.86	64 18 3.95	44.506	+1 52.8	11.9	18 21	.....	.. ..	....
5	Moon I, N.......	11	30 17.59	− 0.03	**−47.89**	58 52 30.52	41.552	+1 30.2	**12.1**	18 29 29.67	+67.50	−20 4 49.8	....
6	β Lyræ...........	11	47 17.13	− 0.45	−47.77	5 36	......	....	....	18 46	.....	.. ..	....
7	σ Sagittarii........	11	50 0.09	+ 0.02	−47.99	65 14 3.48	45.902	+1 57.8	12.2	18 49	.....	.. ..	....
8	51 H. Cephei S. P....	5	54 49.68	+ 7.90	[−46.22]	306 4 4.28	46.536	−1 14.4	[12.6]	6 54	.....	.. ..	....
9	ζ Aquilæ..........	11	1 43.44	− 0.29	−47.87	25 8 3.38	43.740	+ 25.6	12.1	19 0	.....	.. ..	....
	July 28, Y.												
10	θ Geminorum	7	47 6.97	− 0.57	−48.64	4 46 1.45	46.610	+ 4.6	11.0	6 46	.....	.. ..	....
11	α² Geminorum	11	29 7.95	− 0.57	−48.66	6 44 0.70	48.124	+ 6.3	11.1	7 28	.....	.. ..	....
12	α Canis Minoris....	11	34 57.68	− 0.32	−48.74	33 24 3.15	39.041	+ 35.4	11.0	7 34	.....	.. ..	....
13	β Geminorum	11	40 6.32	− 0.54	−48.65	10 36 1.48	42.828	+ 10.1	10.3	7 39	.....	.. ..	....
	July 29, Y.												
14	Sun I............	10	32 35.23	− 0.45	**−48.77**	20 0	......	....	....	8 31 46.01	+66.78	.. ..	....
15	Sun II...........	10	34 48.80	− 0.45	**−48.77**	... .	......	....	....	8 33 59.58	−66.79	.. ..	....
16	ε Leonis	3	41 4.88	− 0.47	−48.99	14 38 2.98	43.072	+ 14.0	11.3	9 40	.....	.. ..	....
17	α Leonis	11	3 56.80	− 0.38	−48.91	26 24 2.18	44.858	+ 26.5	12.2	10 3	.....	.. ..	....
18	Venus I, C.......	6	11 18.62	− 0.38	**−48.91**	25 56 2.30	46.364	+ 26.0	**11.6**	10 10 29.33	+ 0.31	+12 54 24.4	....
19	Venus II	5	11 19.20	− 0.38	**−48.91**	... .	......	....	....	10 10 29.91	− 0.27	.. ..	....
20	γ¹ Leonis	8	15 21.73	− 0.46	−48.85	18 30 1.65	46.822	+ 17.9	11.7	10 14	.....	.. ..	....
21	δ Leonis	11	9 41.65	− 0.46	−48.94	17 46 2.28	48.630	+ 17.1	11.1	11 8	.....	.. ..	....
22	θ Ophiuchi	11	16 49.68	+ 0.03	−49.76	63 44 4.88	43.308	+1 49.1	13.0	17 15	.....	.. ..	....
23	b Ophiuchi........	10	21 13.42	+ 0.02	−49.83	62 54 1.60	46.720	+1 45.4	12.2	17 20	.....	.. ..	....
24	C. Z. XVII. 1751.	9	28 2.39	+ 0.06	**−49.83**	66 12 1.98	48.260	+2 2.2	**12.2**	17 27 12.62	.....	−27 23 47.6	....
25	γ² Sagittarii........	11	0 21.25	+ 0.09	−49.90	69 14 2.95	46.058	+2 22.2	11.0	17 59	.....	.. ..	....
26	δ Ursæ Minoris....	5	5 14.08	− 8.72	[−49.95]	312 16 0.90	42.466	− 59.5	[11.3]	18 4	.....	.. ..	....
27	Jupiter I, S......	5	21 33.12	+ 0.01	**−49.80**	62 10 2.35	46.622	+1 42.9	**12.2**	18 20 43.33	+ 1.65	−23 24 11.2	....
28	Jupiter II, N.....	6	21 36.42	+ 0.01	**−49.80**	62 10 2.35	44.262	+1 42.9	**12.2**	18 20 46.63	− 1.65	−23 23 26.1	....
29	Saturn I, S	6	50 12.30	0.00	**−49.78**	61 18 2.82	46.792	+1 39.4	**12.2**	18 49 22.52	+ 0.59	−22 32 11.4	....
30	Saturn II, N.....	5	50 13.48	0.00	**−49.78**	61 18 2.82	45.625	+1 39.4	**12.2**	18 49 23.70	− 0.59	−22 31 49.2	....
31	51 H. Cephei S. P....	7	54 49.37	+10.04	[−47.73]	306 4 0.75	46.576	−1 14.3	[10.2]	6 54	.....	.. ..	....
32	d Sagittarii........	11	12 44.81	− 0.03	−49.88	57 58 2.95	42.976	+1 27.0	12.4	19 11	.....	.. ..	....
33	Moon I, N.......	11	26 6.89	− 0.04	**−49.76**	56 50 3.68	42.749	+1 23.5	**12.2**	19 25 17.09	+67.48	−18 2 39.1	....
34	κ Aquilæ..........	11	32 27.90	− 0.14	−49.72	46 6 3.95	41.554	+ 56.7	12.4	19 31	.....	.. ..	....
35	γ Aquilæ..........	11	42 26.96	− 0.30	−49.66	28 28 3.80	45.484	+ 29.7	12.3	19 41	.....	.. ..	....
	July 29, B.												
36	α Orionis..........	11	50 41.05	− 0.31	−50.29	31 28 3.72	43.168	+ 32.9	11.6	5 49	.....	.. ..	....
37	η Geminorum	11	9 46.79	− 0.45	−50.31	16 18 3.48	48.010	+ 15.8	11.7	6 8	.....	.. ..	....
38	μ Geminorum	11	17 50.97	− 0.45	−50.36	16 18 2.18	42.659	+ 15.7	11.5	6 17	.....	.. ..	....
39	γ Geminorum	11	32 52.08	− 0.39	−50.37	22 22 2.60	44.999	+ 22.1	13.2	6 32	.....	.. ..	....
40	Mercury II, C ...	11	17 12.68	− 0.42	**−50.40**	19 6 1.60	43.279	+ 18.6	**12.3**	7 16 21.86	− 0.29	+19 45 32.3	....
	July 30, B.												
41	Sun I, N.........	9	36 31.40	− 0.41	**−50.50**	19 56 2.32	48.480	+ 19.5	**12.3**	8 35 40.49	+66.79	+18 50 37.3	....
42	Sun II, S........	11	38 44.99	− 0.41	**−50.50**	20 28 1.78	46.962	+ 20.1	**12.3**	8 37 54.08	−66.80	+18 19 3.6	....
43	α Hydræ	11	23 35.45	− 0.18	−50.60	47 4 3.55	45.945	+ 57.3	12.8	9 22	.....	.. ..	....
44	ε Leonis	3	41 6.47	− 0.46	−50.59	14 38 2.60	43.288	+ 14.0	13.0	9 40	.....	.. ..	....
45	γ¹ Leonis	5	15 23.39	− 0.43	−50.54	18 30 0.82	46.910	+ 17.9	12.5	10 14	.....	.. ..	....
46	γ² Sagittarii........	11	0 22.80	+ 0.07	−51.44	69 14 1.85	46.030	+2 23.4	10.6	17 59	.....	.. ..	....
47	μ Sagittarii........	11	8 46.23	− 0.02	−51.38	59 54 1.78	47.121	+1 34.2	11.2	18 7	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
28 18 0	29.79	81.2	81.0
19 3	29.78	80.8	80.2
6 51	29.805	89.4	88.8
7 25	29.81	90.3	88.5
29 8 35	29.815	91.5	90.6
9 32	29.795	92.7	92.0
11 16	29.77	94.8	93.7
17 24	29.75	85.0	84.1
18 8	29.75	83.2	82.2
18 46	29.75	82.1	81.0
19 36	29.745	80.5	79.0
5 47	29.78	88.0	88.5
6 35	29.79	90.2	89.8
7 20	29.79	91.0	90.2
30 8 39	29.790	91.5	90.2
9 8	29.785	91.8	91.3
9 45	29.77	92.8	92.2
10 24	29.765	92.6	91.2
17 52	29.75	80.2	78.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 26.	Bisections at c_1, c_2, c_3, c_4, c_5.
2, 7, 13, 20, 23, 42, 45.	Bisections at VI, VII.
5, 27, 28, 29, 30, 33, 41, 42.	Z. D. thread A used.
5, 33.	Bisections at II, III, IV, V, VI.
8, 31.	Bisections at c_5, c_4, c_3, c_2, c_1.
16, 27, 29.	Bisections at I, VII.
17, 22, 24.	Bisections at II, VI, VII.
28, 30.	Bisections at II, VI.
41.	Bisections at II, III.
44.	Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+47 54.4	−15 18.6	...	+32 35.8
18	+ 2.6	....	− 0.1	+ 2.5
27	+ 1.8	+ 22.5	...	+ 24.3
28	+ 1.8	− 22.6	...	− 20.8
29	+ 0.9	+ 11.1	...	+ 12.0
30	+ 0.9	− 11.1	...	− 10.2
33	+47 23.5	−15 29.2	...	+31 54.3
40	+ 3.5	....	0.0	+ 3.5
41	+ 3.0	−15 46.9	...	−15 43.9
42	+ 3.0	+15 46.8	...	+15 49.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Serpentis	11	17 6.52	− 0.16	−51.33	41 46 2.55	44.220	+ 48.9	11.9	18 16	.....	.. ..	....
2	Jupiter I, N.......	6	21 10.87	0.00	**−51.37**	62 10 2.55	45.275	+1 43.6	**11.1**	18 20 19.50	+ 1.78	−23 23 47.4	....
3	Jupiter II, S	5	21 14.44	0.00	**−51.37**	62 10 2.55	47.630	+1 43.7	**11.1**	18 20 23.07	− 1.79	−23 24 32.8	....
4	1 Aquilæ..........	11	30 44.60	− 0.12	−51.30	47 10 2.55	41.514	+ 59.0	10.8	18 29	.....	.. ..	....
5	Saturn I, N......	6	49 57.70	− 0.01	**−51.42**	61 18 3.00	46.932	+1 40.1	**11.1**	18 49 6.27	+ 0.77	−22 32 16.1	....
6	Saturn II, S	5	49 59.24	− 0.01	**−51.42**	61 18 3.00	47.952	+1 40.1	**11.1**	18 49 7.81	− 0.77	−22 32 35.8	....
	July 31, Br.												
7	λ Sagittarii	11	22 49.24	+ 0.06	−53.19	64 18 3.55	44.340	+1 54.5	10.0	18 21	.....	.. ..	....
8	1 Aquilæ..........	11	30 46.32	- 0.08	−53.06	47 10 2.75	41.409	+ 59.7	9.7	18 29	.....	.. ..	....
9	Saturn I, N......	6	49 43.43	+ 0.03	**−53.15**	61 20 3.48	41.748	+1 41.3	**9.7**	18 48 50.31	+ 0.76	−22 32 39.8	....
10	Saturn II, S	5	49 44.96	+ 0.03	**−53.15**	61 20 3.48	42.760	+1 41.3	**9.7**	18 48 51.84	− 0.77	−22 32 59.4	....
11	ζ Aquilæ..........	11	1 48.60	− 0.24	−53.09	25 8 3.38	43.576	+ 26.1	9.9	19 0	.....	.. ..	....
12	d Sagittarii........	11	12 48.15	0.00	−53.25	57 58 3.18	42.714	+1 28.5	9.1	19 11	.....	.. ..	....
13	α Delphini	11	35 59.70	− 0.26	−53.19	23 16 4.15	47.205	+ 24.0	9.6	20 35	.....	.. ..	....
14	μ Aquarii..........	11	48 16.28	− 0.07	−53.23	48 12	......	....	....	20 47	.....	.. ..	....
15	Moon II, N......	11	19 3.33	− 0.06	**−53.25**	49 50 3.52	37.940	+1 5.9	**9.2**	21 18 10.02	−66.83	−11 0 52.2	....
16	β Aquarii	11	27 18.19	− 0.10	−53.23	44 50 3.42	46.012	+ 55.3	9.0	21 26	.....	.. ..	....
17	ξ Aquarii..........	11	33 26.34	− 0.08	−53.31	47 8 3.58	44.136	+ 59.9	9.1	21 32	.....	.. ..	....
	July 31, L.												
18	α Orionis..........	11	50 44.49	− 0.24	−53.75	31 28 5.15	42.925	+ 33.7	9.4	5 49	.....	.. ..	....
19	μ Geminorum	11	17 54.32	− 0.34	−53.77	16 18 3.48	42.408	+ 16.1	8.4	6 17	.....	.. ..	....
20	γ Geminorum	11	32 55.48	− 0.30	−53.81	22 22 3.25	44.732	+ 22.6	9.3	6 32	.....	.. ..	....
21	ε Geminorum	11	38 46.50	− 0.36	−53.77	13 38 3.38	43.021	+ 13.4	9.1	6 37	.....	.. ..	....
22	Mercury II, C....	11	23 47.90	− 0.33	**−53.85**	18 46 3.78	46.409	+ 18.7	**9.3**	7 22 53.72	− 0.28	+20 4 27.0	....
	August 1, L.												
23	Sun I, S..........	11	44 22.37	− 0.32	**−53.96**	20 58 3.18	45.195	+ 21.0	**9.3**	8 43 28.09	+66.64	+17 49 35.2	....
24	Sun II, N........	11	46 35.65	− 0.32	**−53.96**	20 26 2.95	46.402	+ 20.5	**9.3**	8 45 41.37	−66.64	+18 21 10.1	....
25	ε Leonis	10	41 9.82	− 0.37	−54.02	14 38 3.55	42.865	+ 14.3	8.6	9 40	.....	.. ..	....
26	α Leonis	11	4 1.92	− 0.29	−54.12	26 24 4.00	44.665	+ 27.1	10.2	10 3	.....	.. ..	....
27	δ Leonis	11	9 46.70	− 0.35	−54.12	17 46 3.05	48.470	+ 17.5	9.1	11 8	.....	.. ..	....
28	β Leonis	11	44 56 79	− 0.32	−54.15	23 44 3.12	43.260	+ 24.0	10.0	11 44	.....	.. ..	....
29	ε Pegasi..........	11	40 18.63	− 0.21	−55.12	29 26 6.00	41.992	+ 31.6	10.0	21 39	.....	.. ..	....
30	μ Capricorni	11	48 53.32	− 0.06	−55.27	52 52 6.62	40.669	+1 13.8	9.8	21 47	....	.. ..	....
31	α Aquarii..........	11	1 41.20	− 0.15	−55.19	39 38 5.08	45.294	+ 46.4	10.0	22 0	.....	.. ..	....
32	Moon II, N......	11	13 38.74	− 0.11	**−55.20**	45 14 5.45	43.085	+ 56.3	**9.8**	22 12 43.43	−66.62	− 6 23 7.8	....
33	π Aquarii.... ..	11	21 12.44	− 0.16	−55.19	37 58 5.30	43.711	+ 43.6	9.9	22 20	.....	.. ..	....
34	η Aquarii..........	11	31 15.29	− 0.15	−55.16	39 28 6.45	44.005	+ 46.0	9.5	22 30	.....	.. ..	....
	August 1, B.												
35	η Geminorum	11	9 51.71	− 0.35	−55.25	16 18 2.80	47.909	+ 16.2	9.5	6 8	.....	.. ..	....
36	μ Geminorum	11	17 55.81	− 0.34	−55.23	16 18 2.95	42.515	+ 16.2	10.0	6 17	.....	.. ..	....
37	γ Geminorum	11	32 57.01	− 0.30	−55.32	22 22 4.32	44.720	+ 22.7	10.2	6 32	.....	.. ..	....
38	ε Geminorum	11	38 48.14	− 0.37	−55.38	13 38 2.72	43.148	+ 13.4	10.9	6 37	.....	.. ..	....
39	Mercury II, C.	6	27 44.24	− 0.33	**−55.38**	18 38 3.70	46.870	+ 18.6	**10.5**	7 26 48.53	− 0.28	+20 12 17.0	....
	August 2, B.												
40	Sun I, S	11	48 16.65	− 0.31	**−55.50**	21 12 2.72	49.062	+ 21.3	**11.0**	8 47 20.84	+66.66	+17 34 22.9	....
41	Sun II, N........	11	50 29.96	− 0.31	**−55.50**	20 40 2.35	50.073	+ 20.7	**11.0**	8 49 34.15	−66.65	+18 6 1.9	....
42	α Hydræ..........	11	23 40.46	0.12	−55.65	47 4 4.10	45.761	+ 58.7	11.5	9 22	.....	.. ..	....
43	ε Leonis	10	41 11.35	− 0.36	−55.55	14 38 2.55	43.192	+ 14.3	11.1	9 40	.....	.. ..	....
44	α Leonis	7	4 3.31	− 0.27	−55.53	26 24 4.10	44.732	+ 27.1	11.6	10 3	.....	.. ..	...
45	γ^1 Leonis	11	15 28.37	0.33	−55.62	18 30 2.20	46.858	+ 18.3	11.2	10 14	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
30	18	34	29.745	79.0	77.5
	19	34	29.755	78.5	76.6
31	18	28	29.735	73.7	71.8
	19	17	29.73	72.3	70.4
	20	32	29.72	71.5	69.8
	20	52	29.72	71.5	69.6
	21	39	29.715	70.9	69.0
	5	55	29.77	76.9	75.9
	6	42	29.78	78.9	77.1
	7	26	29.78	79.1	78.0
1	8	46	29.78	80.8	79.4
	11	12	29.75	82.2	80.4
	11	51	29.75	82.0	80.4
	21	52	29.78	70.1	67.1
	[illegible]	26	29.79	70.0	68.3
	6	3	29.84	76.5	75.0
	6	41	29.85	78.0	76.3
	7	30	29.85	79.7	78.0
2	8	50	29.84	82.3	81.0
	9	27	29.84	82.0	80.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 3, 5, 6, 9, 10, 15, 23, 24, 40, 41.	Z. D. thread A used.
2, 5, 9.	Bisections at I, VII.
3, 6, 10.	Bisections at II, VI.
15.	Bisections at II, III, IV, V, VI.
23, 40.	Bisections at I, II, III.
24, 41.	Bisections at V, VI, VII.
25, 28.	Bisections at II, VI, VII.
32.	Bisections at III, IV, V.
39.	Bisection at VII.
43.	Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 1.8	− 22.7	...	− 20.9
3	+ 1.8	+ 22.7	...	+ 24.5
5	+ 0.9	− 9.8	...	8.9
6	+ 0.9	+ 9.9	...	+ 10.8
9	+ 0.9	− 9.8	...	− 8.9
10	+ 0.9	+ 9.8	...	+ 10.7
15	+44 10.7	−15 49.5	...	+28 21.2
22	+ 3.3	....	+ 0.1	+ 3.4
23	+ 3.1	+15 47.4	...	+ 15 50.5
24	+ 3.0	−15 47.4	...	−15 44.4
32	+41 22.4	−15 57.7	...	+25 24.7
39	+ 3.2	....	+ 0.1	+ 3.3
40	+ 3.1	+15 49.5	...	+15 52.6
41	+ 3.1	−15 49.5	...	−15 46.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Venus I, C.......	6	29 54.88	− 0.26	**−55.64**	27 44 4.35	46.318	+ 28.7	**9.8**	10 28 58.98	+ 0.46	+11 6 18.8	....
2	Venus II.........	5	29 55.72	− 0.26	**−55.64**	... .	......	....	....	10 28 59.82	− 0.38	.. ..	....
	August 2, L.												
3	γ Geminorum	11	32 58.88	− 0.28	−57.19	22 22 4.18	44.706	+ 22.5	9.6	6 32	.....	.. ..	....
4	ε Geminorum	6	38 49.94	− 0.34	−57.19	13 38	......	....	....	6 37	.....	.. ..	....
5	α Canis Majoris....	11	41 45.60	− 0.06	−57.39	55 24 2.72	47.362	+1 18.7	9.3	6 40	.....	.. ..	....
	August 3, L.												
6	Sun I, N........	11	52 10.93	− 0.33	**−57.39**	20 56 2.50	48.612	+ 20.8	**10.0**	8 51 13.21	+66.46	+17 50 31.2	....
7	Sun II, S........	11	54 23.85	− 0.33	**−57.39**	21 28 2.32	47.125	+ 21.3	**10.0**	8 53 26.13	−66.46	+17 18 56.8	....
8	α Leonis	11	4 5.27	− 0.31	−57.45	26 24 5.00	44.671	+ 26.8	11.0	10 3	.....	.. ..	....
9	γ¹ Leonis	8	15 30.28	− 0 38	−57.48	18 30	......	....	....	10 14	.....	.. ..	....
10	Venus I, C.......	6	34 31.67	− 0.31	**−57.49**	28 12 5.75	45.528	+ 28.9	**10.0**	10 33 33.87	+ 0.43	+10 38 32.5	....
11	Venus II	5	34 32.46	− 0.31	**−57.49**	... .	......	....	....	10 33 34.66	− 0.36	.. ..	....
	August 7, Br.												
12	α Orionis..........	11	50 56.02	− 0.26	−65.09	31 28 3.48	42.994	+ 33.9	9.7	5 49	.....	.. ..	....
13	θ Aurigæ..........	11	54 6.19	− 0.46	−65.05	1 38 1.75	48.193	+ 1.7	10.0	5 53	.....	.. ..	....
14	μ Geminorum	11	18 5.88	− 0.35	−65.14	16 18 2.82	42.461	+ 16.2	8.9	6 17	.....	.. ..	....
15	γ Geminorum	11	33 7.05	− 0.31	−65.22	22 22 4.28	44.661	+ 22.7	9.2	6 32	.....	.. ..	....
16	Mercury II, C....	11	59 47.29	− 0.35	**−65.26**	18 26 3.08	45.152	+ 18.3	**9.9**	7 58 41.68	− 0.23	+20 24 52.8	....
	August 8, Br.												
17	Sun I, N.........	11	11 31.54	− 0.34	**−65.36**	22 20 2.65	40.768	+ 22.5	**10.1**	9 10 25.84	+66.02	+16 28 59.9	....
18	Sun II, S	11	13 43.59	− 0.34	**−65.36**	22 52 4.28	39.425	+ 23.1	**10.1**	9 12 37.89	−66.03	+15 57 20.8	....
19	γ¹ Leonis...........	11	15 38.29	− 0.38	−65.49	18 30 3.38	46.749	+ 18.3	10.0	10 14	.....	.. ..	....
20	Venus I, C.......	6	57 20.45	− 0.31	**−65.49**	30 34 3.05	47.586	+ 32.2	**10.5**	10 56 14.65	+ 0.46	+ 8 15 53.0	....
21	Venus II	5	57 21.28	− 0.31	**−65.49**	... .	......	....	....	10 56 15.48	− 0.37	.. ..	....
22	δ Leonis	9	9 58.02	− 0.40	−65.42	17 46 2.85	48.578	+ 17.5	10.6	11 8	.....	.. ..	....
23	ν Ursæ Majoris	..	.. ..	....	.....	5 14 1.58	42.580	+ 5.0	10.8	11 13	.....	.. ..	....
24	β Leonis	11	45 8.15	− 0.36	−65.52	23 44 2.70	43.358	+ 24.0	10.7	11 44	.....	.. ..	....
25	γ Corvi.............	11	11 50.57	− 0.15	−65.64	55 50 2.55	44.165	+1 19.9	10.9	12 10	.....	.. ..	....
26	θ Herculis..........	11	54 1.03	− 0.56	[−66.03]	1 36 0.45	42.328	+ 1.6	[10.9]	17 52	.....	.. ..	....
27	δ Ursæ Minoris	8	5 26.66	− 7.02	[−67.11]	312 16 1.52	42.320	−1 0.4	[10.6]	18 4	.....	.. ..	....
28	51 H. Cephei S. P....	6	55 13.37	+ 7.88	[−66.67]	306 4 1.98	46.437	−1 15.4	[10.4]	6 54	.....	.. ..	....
29	ι Lyræ..............	11	4 56.23	− 0.55	[−66.11]	2 54 1.42	45.655	+ 2.9	[11.5]	19 3	.....	.. ..	....
30	ε Tauri	11	23 59.84	− 0.29	−66.82	19 54 2.88	42.608	+ 20.1	10.9	4 22	.....	.. ..	....
31	α Tauri	11	31 24.05	− 0.28	−66.90	22 32 3.30	45.595	+ 23.1	9.7	4 30	.....	.. ..	....
32	ι Aurigæ...........	11	51 42.77	− 0.40	−66.88	5 52 1.48	40.841	+ 5.7	9.6	4 50	.....	.. ..	....
33	Moon II..........	11	58 33.94	− 0.31	**−66.88**	18 48	......	....	....	4 57 26.75	−71.58	.. ..	....
34	β Eridani...........	11	34 7.95	− 0.14	−66.93	44 4 3.65	42.212	+ 53.4	10.7	5 3	....	.. ..	....
	August 8, B.												
35	γ Geminorum	11	33 8.66	− 0.37	−66.75	22 22 3.78	44.789	+ 22.6	11.0	6 32	.....	.. ..	....
36	ε Geminorum	11	38 59.78	− 0.44	−66.79	13 38 3.50	43.178	+ 13.3	12.0	6 37	.....	.. ..	....
37	β Canis Minoris....	11	22 55.85	− 0.31	−66.93	30 22 3.52	43.492	+ 32.0	12.3	7 21	.....	.. ..	....
38	α² Geminorum	11	29 26.31	− 0.50	−66.88	6 44 1.40	48.210	+ 6.5	12.7	7 28	.....	.. ..	....
39	Mercury II, C....	11	6 22.67	− 0.40	**−66.93**	18 32 2.48	42.988	+ 18.3	**12.2**	8 5 15.34	− 0.22	+20 19 37.2	....
	August 9, B.												
40	Sun I, N.........	11	15 21.95	− 0.36	**−67.03**	22 34 4.90	50.505	+ 22.7	**12.2**	9 14 14.56	+66.00	+16 11 52.8	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
2	10	34	29.82	83.0	81.8
	6	34	29.72	80.1	80.0
	6	43	29.72	80.8	81.0
3	8	54	29.72	84.8	84.7
	10	4	29.72	86.0	86.0
	10	36	29.72	86.9	86.3
7	5	55	29.95	76.0	75.8
	6	37	29.96	78.1	77.6
	8	2	29.955	81.0	80.7
8	9	13	29.935	82.1	82.0
	10	18	29.92	83.7	83.0
	11	3	29.92	85.9	84.0
	11	50	29.91	85.5	84.0
	12	15	29.90	85.1	84.5
	17	47	29.88	77.8	76.5
	18	9	29.88	77.1	76.1
	19	9	29.88	75.9	74.9
	4	20	29.91	73.0	72.9
	4	34	29.91	73.9	73.9
	5	9	29.92	75.5	75.5
	6	34	29.94	80.3	80.0
	7	24	29.945	83.2	82.8
	7	36	29.945	84.0	83.2
	8	9	29.95	85.0	84.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

6, 7, 17, 18, 40.	Z. D. thread A used.
6, 17, 40.	Bisections at I, II, III.
7, 18.	Bisections at V, VI, VII.
13, 23.	Bisections at II, VI, VII.
27.	Bisections at c_1, c_2, c_3, c_4, c_5.
28.	Bisections at c_5, c_4, c_3, c_2, c_1.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 2.7	....	− 0.1	+ 2.6
6	+ 3.1	−15 47.1	...	−15 44.0
7	+ 3.2	+15 47.2	...	+15 50.4
10	+ 2.8	....	− 0.1	+ 2.7
16	+ 2.7	....	+ 0.2	+ 2.9
17	+ 3.3	−15 49.5	...	−15 46.2
18	+ 3.4	+15 49.5	...	+15 52.9
20	+ 3.1	....	− 0.1	+ 3.0
39	+ 2.6	....	+ 0.2	+ 2.8
40	+ 3.3	−15 48.7	...	−15 45.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun II, S........	11	17 33.95	− 0.36	**−67.04**	23 6 4.22	49.203	+ 23.3	**12.2**	9 16 26.55	−65.99	+15 40 15.3	....
2	α Leonis	11	4 14.97	− 0.34	−67.11	26 24 3.52	44.826	+ 26.9	12.5	10 3	.....	.. ..	....
3	γ^1 Leonis	11	15 39.98	− 0.40	−67.16	18 30 1.90	46.959	+ 18.2	12.4	10 14	.....	.. ..	....
4	Venus I, C.......	6	1 52.02	− 0.31	**−67.19**	31 4 2.48	45.278	+ 32.6	**12.2**	11 0 44.52	+ 0.44	+ 7 46 39.1	....
5	Venus II	5	1 52.82	− 0.31	**−67.19**	... .	....	....	....	11 0 45.32	− 0.36	.. ..	....
6	δ Leonis	11	9 59.80	− 0.40	−67.20	17 46 2.15	48.722	+ 17.4	12.4	11 8	.....	.. ..	....
7	ν Ursæ Majoris....	11	14 17.02	− 0.51	−67.17	5 14 0.50	42.756	+ 5.0	12.3	11 13	.....	.. ..	....
8	δ Ursæ Minoris....	7	5 25.10	− 6.58	[−66.36]	312 16 9.30	42.074	−1 0.2	[14.1]	18 4	.....	.. ..	....
9	β Lyræ	11	47 37.06	− 0.54	[−67.70]	5 36 9.30	44.760	+ 5.5	[14.7]	18 46	.....	.. ..	....
10	51 H. Cephei S. P....	8	55 16.01	+ 7.29	[−68.34]	306 4 9.38	46.208	−1 15.2	[13.8]	6 54	.....	.. ..	....
11	ζ Aquilæ..........	11	2 3.42	− 0.39	[−67.80]	25 8 11.40	43.314	+ 25.9	[14.3]	19 0	.....	.. ..	....
	August 9, Y.												
12	κ Orionis..........	11	44 14.31	− 0.15	−68.83	48 32 12.42	46.081	+1 2.2	14.8	5 43	.....	.. ..	....
13	α Orionis..........	11	50 59.86	− 0.26	−68.88	31 28 12.80	42.705	+ 33.6	13.4	5 49	.....	.. ..	....
14	Moon II..........	11	0 30.86	− 0.37	**−68.85**	19 2	....	....	....	5 59 21.64	−71.06	.. ..	....
15	η Geminorum	11	10 5.54	− 0.38	−68.85	16 18 11.90	47.636	+ 16.1	13.4	6 8	.....	.. ..	....
16	μ Geminorum	11	18 9.66	− 0.38	−68.84	16 18 11.55	42.251	+ 16.0	13.4	6 17	.....	.. ..	....
17	β Canis Minoris....	11	22 57.96	− 0.31	−69.02	30 22 12.20	43.206	+ 31.9	15.5	7 21	.....	.. ..	....
18	α^2 Geminorum	11	29 28.43	− 0.50	−68.98	6 44 9.88	47.871	+ 6.5	14.6	7 28	.....	.. ..	....
19	α Canis Minoris....	11	35 18.12	− 0.29	−69.02	33 22 13.20	44.912	+ 35.8	14.7	7 34	.....	.. ..	....
20	β Geminorum	11	40 26.77	− 0.47	−68.95	10 36 11.82	42.639	+ 10.2	14.5	7 39	.....	.. ..	....
21	Mercury II, C	11	13 15.84	− 0.42	**−69.04**	18 40 12.08	41.914	+ 18.3	**14.8**	8 12 6.38	− 0.22	+20 11 50.8	....
	August 10, Y.												
22	Sun I, S	11	19 12.45	− 0.40	**−69.13**	23 24 11.45	47.145	+ 23.5	**14.8**	9 18 2.92	+65.81	+15 22 52.5	....
23	Sun II, N........	11	21 24.08	− 0.40	**−69.13**	22 52 12.20	48.085	+ 22.9	**14.8**	9 20 14.55	−65.82	+15 54 31.8	....
24	α Leonis	11	4 17.11	− 0.38	−69.21	26 24 12.42	44.512	+ 26.8	15.3	10 3	.....	.. ..	....
25	γ^1 Leonis	11	15 42.11	− 0.45	−69.23	18 30 11.78	46.522	+ 18.1	13.8	10 14	.....	.. ..	....
26	δ Leonis	10	10 1.90	− 0.46	−69.24	17 46 11.52	48.339	+ 17.3	14.4	11 8	.....	.. ..	....
27	β Leonis	11	45 11.95	− 0.42	−69.27	23 44 11.50	43.169	+ 23.7	15.4	11 44	.....	.. ..	....
	August 13, B.												
28	δ Ursæ Minoris....	3	4 28.66	− 6.08	[−11.88]	312 16 10.15	41.877	−1 0.9	[12.8]	18 4	.....	.. ..	....
29	51 H. Cephei S. P....	8	54 22.26	+ 6.71	[−12.46]	306 4 9.88	46.089	−1 16.0	[12.3]	6 54	.....	.. ..	....
30	ζ Aquilæ..........	11	1 8.21	− 0.38	[−12.62]	25 8 12.95	43.144	+ 26.2	[13.5]	19 0	.....	.. ..	....
31	ι Lyræ............	11	4 2.64	− 0.50	[−12.62]	2 54 10.60	45.226	+ 2.9	[13.6]	19 3	.....	.. ..	....
	August 16, B.												
32	δ Ursæ Minoris	8	4 29.65	− 7.33	[−12.59]	312 16 9.72	41.963	−1 0.0	[13.8]	18 4	.....	.. ..	....
33	β Lyræ............	11	46 42.13	− 0.56	[−12.84]	5 36 9.08	44.685	+ 5.4	[14.4]	18 46	.....	.. ..	....
34	51 H. Cephei S. P....	7	54 21.31	+ 8.24	[−11.99]	306 4 9.42	46.073	−1 15.0	[13.2]	6 54	.....	.. ..	....
35	ζ Aquilæ..........	11	1 8.55	− 0.39	[−12.97]	25 8 11.58	43.281	+ 25.8	[14.8]	19 0	.....	.. ..	....
	August 19, Y.												
36	θ Herculis..........	11	53 7.83	− 0.66	[−12.93]	1 36 9.80	41.954	+ 1.6	[14.9]	17 52	.....	.. ..	....
37	δ Ursæ Minoris....	8	4 32.14	− 6.81	[−16.55]	312 16 10.22	41.939	−1 0.1	[14.3]	18 4	.....	.. ..	....
38	β Lyræ............	11	46 42.31	− 0.61	[−13.01]	5 36 9.35	44.652	+ 5.4	[14.6]	18 46	.....	.. ..	....
39	51 H. Cephei S. P....	9	54 20.38	+ 7.39	[− 9.23]	306 4 9.30	46.080	−1 15.0	[13.9]	6 54	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
9 9 17	29.945	86.2	86.0
9 56	29.94	86.8	86.8
10 18	29.93	87.0	87.1
11 3	29.935	88.8	88.0
11 18	29.93	89.0	87.8
17 58	29.885	79.0	78.0
18 42	29.88	78.0	76.8
19 0	29.88	77.8	76.3
5 48	29.845	78.5	77.6
6 22	29.845	80.5	80.2
7 26	29.85	83.7	83.0
7 45	29.845	84.2	83.8
8 19	29.84	85.0	84.8
10 9 21	29.83	86.4	85.9
10 1	29.83	87.1	86.5
10 23	29.825	87.8	87.2
10 56	29.82	88.0	87.6
11 52	29.80	89.7	88.1
13 18 8	29.935	74.8	73.2
18 43	29.935	73.6	72.6
19 9	29.935	73.0	72.1
16 18 4	29.90	80.5	80.0
18 26	29.90	80.2	79.2
19 5	29.90	79.2	78.2
19 17 57	29.885	80.4	79.3
19 4	29.89	79.6	78.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 22, 23.	Z. D. thread A used.
1, 23.	Bisections at V, VI, VII.
8, 32, 37.	Bisections at c_1, c_2, c_3, c_4, c_5.
10, 29, 34, 39.	Bisections at c_5, c_4, c_3, c_2, c_1.
22.	Bisections at I, II, III.
25.	Bisections at II, VI, VII.
28.	Bisections at d_1, d_2, d_3.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 3.4	+15 48.7	...	+15 52.1
4	+ 3.1	....	− 0.1	+ 3.0
21	+ 2.6	....	+ 0.2	+ 2.8
22	+ 3.5	+15 49.6	...	+15 53.1
23	+ 3.4	−15 49.6	...	−15 46.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	August 20, B.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Bootis..........	11	50 13.18	− 0.42	−12.64	19 58 11.85	42.584	+ 19.7	14.3	13 50	.....	.. ..	....
2	κ Virginis.........	11	7 52.11	− 0.19	−12.64	48 38 10.62	48.438	+1 1.6	15.3	14 7	.....	.. ..	....
3	α Bootis...........	11	11 23.66	− 0.43	−12.61	19 8 11.55	48.144	+ 18.9	14.3	14 11	.....	.. ..	....
4	Moon I, N.......	11	35 50.68	− 0.13	**−12.64**	55 4 12.05	47.899	+1 17.8	**14.7**	14 35 37.91	+63.66	−16 18 18.1	....
5	ε Bootis...........	11	40 54.76	− 0.50	−12.58	11 22 9.88	43.240	+ 11.0	14.5	14 40	.....	.. ..	....
6	α² Libræ...........	11	45 39.68	− 0.14	−12.74	54 28 11.92	44.618	+1 15.9	15.1	14 45	.....	.. ..	....
7	δ Ursæ Minoris....	8	4 26.51	− 6.74	[−11.33]	312 16 9.65	41.943	−1 0.1	[14.0]	18 4	.....	.. ..	....
8	α Lyræ	11	33 51.39	− 0.62	[−12.54]	0 10 8.35	43.020	+ 0.2	[15.4]	18 33	.....	.. ..	....
9	β Lyræ	11	46 41.72	− 0.56	[−12.49]	5 36 8.08	44.748	+ 5.4	[15.4]	18 46	.....	.. ..	....
10	51 H. Cephei S. P...	9	54 23.34	+ 7.43	[−11.87]	306 4 8.82	46.093	−1 14.9	[14.1]	6 54	.....	.. ..	....
	August 20, Y.												
11	α² Geminorum	11	29 38.89	− 0.55	−79.13	6 44 10.02	47.885	6.6	14.8	7 28	.....	.. ..	....
12	α Canis Minoris....	11	35 28.56	− 0.35	−79.19	33 22 12.80	44.858	+ 36.2	14.0	7 34	.....	.. ..	....
13	β Geminorum	11	40 37.22	− 0.52	−79.12	10 36 12.38	42.560	+ 10.3	13.5	7 39	.....	.. ..	....
14	Mercury II, C....	11	39 13.35	− 0.44	**−79.33**	22 56 12.78	46.080	+ 23.1	**14.4**	9 37 53.58	− 0.18	+15 54 25.0	....
	August 21, Y.												
15	Sun I, N.........	11	0 37.28	− 0.41	**−79.36**	26 20 11.60	43.373	+ 27.0	**14.6**	9 59 17.51	+64.95	+12 28 1.0	....
16	Sun II, S........	10	2 47.19	− 0.41	**−79.36**	26 52 11.85	42.173	+ 27.7	**14.6**	10 1 27.42	−64.96	+11 56 20.6	....
17	δ Leonis	11	10 12.10	− 0.49	−79.43	17 46 12.05	48.345	+ 17.5	14.3	11 8	.....	.. ..	....
18	Venus I, C.......	6	55 12.63	− 0.35	**−79.53**	37 8 12.45	41.705	+ 41.0	**15.0**	11 53 52.75	+ 0.41	+ 1 43 32.1	....
19	Venus II	5	55 13.36	− 0.35	**−79.53**	... .	......	....	....	11 53 53.48	− 0.32	.. ..	....
20	γ Corvi............	11	12 4.46	− 0.22	−79.56	55 50 10.85	43.954	+1 19.7	16.3	12 10	.....	.. ..	....
21	δ² Corvi...........	11	26 6.18	− 0.23	−79.55	54 48 10.78	45.089	+1 16.7	15.9	12 24	.....	.. ..	....
22	β Corvi	7	30 32.89	− 0.17	−79.63	61 40 11.20	47.208	+1 40.2	14.6	12 29	.....	.. ..	....
23	α Canum Venat....	11	52 45.17	− 0.68	[−79.47]	0 0 9.05	45.190	+ 0.1	14.3	12 51	.....	.. ..	....
24	Moon I, N.......	11	27 8.45	− 0.27	**−79.83**	57 28 11.30	44.276	+1 25.0	**15.8**	15 25 48.35	+64.64	−18 41 13.9	....
25	α Serpentis........	11	40 46.35	− 0.44	−79.80	32 6 11.65	45.958	+ 34.1	15.2	15 39	.....	.. ..	....
26	ε Serpentis........	11	47 15.79	− 0.43	−79.82	34 4 12.12	44.932	+ 36.8	16.1	15 45	.....	.. ..	....
27	β Scorpii	11	1 4.29	− 0.26	−79.96	58 22 10.50	44.666	+1 28.1	16.3	15 59	.....	.. ..	....
	August 21, Br.												
28	δ Geminorum	11	15 36.25	− 0.47	−80.94	16 40 11.48	48.650	+ 16.5	14.6	7 14	.....	.. ..	....
29	β Canis Minoris....	11	23 10.25	− 0.36	−81.01	30 22 11.92	43.172	+ 32.2	15.3	7 21	.....	.. ..	....
30	α² Geminorum	11	29 40.84	− 0.57	−81.03	6 44 10.40	47.790	+ 6.5	14.4	7 28	.....	.. ..	....
31	α Canis Minoris....	11	35 30.45	− 0.34	−81.07	33 22 11.90	44.902	+ 36.1	14.7	7 34	.....	.. ..	....
32	β Geminorum	11	40 39.09	− 0.53	−80.96	10 36 10.38	42.705	+ 10.3	14.2	7 39	.....	.. ..	....
	August 22, Br.												
33	Sun I, N	11	4 21.04	− 0.39	**−81.27**	26 40 12.60	43.375	+ 27.4	**15.2**	10 2 59.38	+64.95	+12 8 0.1	....
34	Sun II, S	11	6 30.95	− 0.39	**−81.27**	27 12 10.70	42.397	+ 28.1	**15.2**	10 5 9.29	−64.96	+11 36 17.6	....
35	δ Leonis	11	10 13.95	− 0.46	−81.31	17 46 11.80	48.371	+ 17.5	14.6	11 8	.....	.. ..	....
36	Venus I, C........	6	59 37.27	− 0.31	**−81.46**	37 38 11.70	44.618	+ 41.9	**15.7**	11 58 15.50	+ 0.40	+ 1 12 36.8	....
37	Venus II	5	59 37.98	− 0.31	**−81.46**	... .	......	....	....	11 58 16.21	− 0.31	.. ..	....
38	γ Corvi............	11	12 6.32	− 0.17	−81.48	55 50 10.42	43.968	+1 19.8	16.4	12 10	.....	.. ..	....
39	δ² Corvi............	11	26 8.11	− 0.18	−81.54	54 48 10.65	45.081	+1 16.8	15.8	12 24	.....	.. ..	....
40	β Corvi............	11	30 34.76	− 0.12	−81.55	61 40 11.50	47.340	+1 40.4	15.9	12 29	.....	.. ..	....
41	α Serpentis........	11	40 48.09	− 0.40	−81.60	32 6 11.35	46.074	+ 34.1	15.2	15 39	.....	.. ..	....
42	ε Serpentis........	11	47 17.61	− 0.38	−81.70	34 4 11.62	44.941	+ 36.7	15.7	15 45	.....	.. ..	....
43	δ Scorpii	11	55 53.94	− 0.17	−81.73	61 10 11.05	45.150	+1 38.5	15.2	15 54	.....	.. ..	....
44	β Scorpii	11	1 6.01	− 0.20	−81.76	58 22 9.90	44.689	+1 28.1	16.3	15 59	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
20 13 48	29.87	84.8	85.3
14 22	29.875	84.7	84.8
14 51	29.875	83.0	84.8
17 52	29.900	81.0	79.8
18 38	29.91	79.8	79.0
19 0	29.91	79.5	78.8
7 27	29.93	80.0	79.3
7 46	29.93	80.9	80.0
9 44	29.93	84.0	83.6
21 10 4	29.93	84.8	84.0
11 17	29.93	86.1	85.7
12 16	29.92	88.2	86.3
12 37	29.915	87.3	86.4
12 58	29.905	86.8	86.3
15 33	29.895	85.0	85.1
16 29	29.9	83.2	83.0
7 11	29.98	80.8	80.2
7 46	29.98	82.7	81.8
22 10 6	29.98	85.7	84.8
11 15	29.97	86.7	85.8
11 53	29.96	86.9	86.0
12 38	29.94	86.6	86.0
15 36	29.94	85.5	86.0
16 5	29.94	84.5	84.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 15, 16, 24, 33, 34.	Z. D. thread A used.
4, 24.	Bisections at II, III, IV, V, VI.
5, 11, 13, 31, 32.	Bisections at II, VI, VII.
7.	Bisections at c_1, c_2, c_3, c_4, c_5.
10.	Bisections at c_5, c_4, c_3, c_2, c_1.
15, 33.	Bisections at I, II, III.
16, 34.	Bisections at V, VI, VII.
22, 25, 30.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+44 22.6	−14 48.3	...	+29 34.3
14	+ 2.6	.....	+ 0.1	+ 2.7
15	+ 3.9	−15 50.2	...	−15 46.3
16	+ 3.9	+15 50.2	...	+15 54.1
18	+ 3.8	....	− 0.1	+ 3.7
24	+45 42.2	−14 49.8	...	+30 52.4
33	+ 3.9	−15 51.2	...	−15 47.3
34	+ 4.0	+15 51.2	...	+15 55.2
36	+ 3.8	....	− 0.1	+ 3.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Moon I, N	11	18 50.75	— 0.19	—**81.77**	59 2 10.92	41.451	+1 30.7	**15.6**	16 17 28.79	+65.63	—20 14 25.3	....
2	μ Sagittarii	11	9 16.85	— 0.18	—82.05	59 54 11.42	46.816	+1 34.8	15.5	18 7	.....	.. ..	....
	August 25, Br.												
3	δ Geminorum	11	14 36.28	— 0.40	—20.94	16 40 11.62	48.625	+ 16.6	14.2	7 14	.....	.. ..	....
4	β Canis Minoris ...	11	22 10.15	— 0.31	—20.87	30 22 12.10	43.108	+ 32.5	14.6	7 21	.....	.. ..	....
5	α² Geminorum	10	28 40.78	— 0.48	—20.96	6 44 10.28	47.886	+ 6.6	14.1	7 28	.....	.. ..	....
6	α Canis Minoris ...	11	34 30.37	— 0.29	—20.96	33 22 11.92	44.869	+ 36.5	13.9	7 34	.....	.. ..	....
7	β Geminorum	11	39 39.07	— 0.44	—20.94	10 36 10.35	42.701	+ 10.4	13.2	7 39	.....	.. ..	....
	August 26, Br.												
8	Sun I, S.........	11	18 3.60	— 0.36	—**20.91**	28 34 12.25	42.017	+ 30.0	**14.0**	10 17 42.33	+64.65	+10 14 19.6	....
9	Sun II	9	20 12.89	— 0.36	—**20.91**	28 20	......	....	....	10 19 51.62	—64.64	.. ..	....
10	δ Leonis	9	9 13.58	— 0.45	—20.94	17 46 12.40	48.288	+ 17.6	13.3	11 8	.....	. .. .	....
11	β Leonis	11	44 23.48	— 0.42	—20.88	23 44 11.82	43.084	+ 24.1	13.8	11 44	.....	.. ..	....
12	Venus I, C.......	6	16 5.90	— 0.31	—**20.90**	39 42 12.68	44.561	+ 45.4	**14.0**	12 15 44.69	+ 0.45	— 0 51 28.3	....
13	Venus II	5	16 6.68	— 0.31	—**20.90**	... .	......	....	....	12 15 45.47	— 0.33	.. ..	....
14	ε Virginis	11	57 37.99	— 0.41	—20.90	27 22 12.45	42.895	+ 28.3	14.8	12 57	.....	.. ..	....
15	α Virginis	11	20 21.85	— 0.25	—20.87	49 28 11.65	47.981	+1 3.9	13.8	13 20	.....	.. ..	....
16	ϑ Ophiuchi	2	16 20.86	— 0.13	—21.14	63 44 11.35	42.948	+1 51.5	14.1	17 15	.....	.. ..	....
17	b Ophiuchi	11	20 44.54	— 0.13	—21.16	62 54 11.50	46.230	+1 47.7	13.8	17 20	.....	.. ..	....
18	α Ophiuchi	11	30 44.73	— 0.40	—20.97	26 12 12.50	46.719	+ 27.3	14.6	17 30	.....	.. ..	....
19	ϑ Herculis.........	11	53 15.53	— 0.60	[—20.84]	1 36 9.40	41.870	+ 1.6	13.9	17 52	.....	.. ..	....
20	δ Ursæ Minoris	8	4 33.59	— 6.90	[—20.63]	312 16 10.90	41.851	—1 0.6	[14.0]	18 4	.....	.. ..	....
21	Jupiter I, N......	6	14 29.68	— 0.14	-**21.07**	62 18 11.90	38.185	+1 45.2	**14.3**	18 14 8.47	+ 1.65	—23 29 39.2	....
22	Jupiter II, S	5	14 32.98	-- 0.14	—**21.07**	62 18 11.90	40.438	+1 45.3	**14.3**	18 14 11.77	— 1.65	—23 30 22.6	....
23	Saturn I, S	6	43 59.95	— 0.14	—**21.06**	61 28 11.50	44.638	+1 41.9	**14.3**	18 43 38.75	+ 0.71	—22 41 39.2	....
24	Saturn II, N	5	44 1.36	— 0.14	—**21.06**	61 28 11.50	43.732	+1 41.9	**14.3**	18 43 40.16	— 0.70	—22 41 22.0	....
25	51 H. Cephei S. P ...	7	54 35.20	+ 7.65	[—21.33]	306 4 11.32	45.929	—1 15.6	[14.1]	6 54	.....	.. ..	....
26	ι Lyræ............	11	4 10.82	- 0.59	[--20.89]	2 54 10.30	45.131	+ 2.9	14.2	19 3	.....	.. ..	....
27	γ Aquilæ	11	41 58.35	— 0.38	—21.06	28 28 12.38	45.020	+ 30.1	14.7	19 41	.....	.. ..	....
28	α Aquilæ..........	10	46 22.28	— 0.37	—20.93	30 14 11.60	44.662	+ 32.4	14.9	19 46	.....	.. ..	....
29	Moon I..........	11	56 0.98	— 0.19	—**21.03**	55 28	......	....	....	19 55 39.76	+67.40	.. ..	....
30	ϑ Aquilæ..........	11	6 37.08	— 0.30	—20.98	39 58 12.55	41.641	+ 46.5	14.3	20 6	.....	.. ..	....
31	α² Capricorni.......	11	12 59.22	— 0.22	—21.06	51 42 10.60	41.267	+1 10.2	14.7	20 12	.....	.. ..	....
32	π Capricorni.......	10	22 4.92	— 0.18	—21.10	57 22 10.78	43.734	+1 26.6	14.7	20 21	.....	.. ..	....
	August 27, B.												
33	α Delphini	11	35 27.73	— 0.44	—21.02	23 16 12.42	46.710	+ 24.1	13.5	20 35	.....	.. ..	....
34	μ Aquarii..........	11	47 44.35	— 0.31	—20.98	48 12 11.28	41.970	+1 2.5	13.2	20 47	.....	.. ..	....
35	Moon I, S	11	51 33.60	— 0.31	—**20.96**	52 10 10.68	44.380	+1 12.1	**13.1**	20 51 12.33	+67.30	—13 23 4.8	....
36	1 Pegasi...........	6	17 55.85	— 0.46	—20.92	19 28 11.82	43.370	+ 19.8	12.3	21 17	.....	.. ..	....
37	β Aquarii..........	11	26 46.31	— 0.33	—20.94	44 50 11.58	45.678	+ 55.7	13.3	21 26	.....	.. ..	....
	August 27, Y.												
38	ε Hydræ	7	41 55.14	— 0.38	—20.96	32 4 13.08	44.360	+ 35.0	14.3	8 41	.....	.. ..	....
39	α Lyncis	11	15 24.72	— 0.56	—20.90	4 2 10.82	47.190	+ 4.0	14.3	9 15	.....	.. ..	....
40	α Leonis	10	3 28.95	— 0.41	—20.90	26 24 13.58	44.381	+ 27.6	14.1	10 3	.....	.. ..	....
	August 28, Y.												
41	Sun I, S.........	11	25 22.47	— 0.40	—**20.92**	29 16 11.52	42.173	+ 31.2	**14.1**	10 25 1.15	+64.57	+ 9 32 19.4	....
42	Sun II, N	11	27 31.61	— 0.40	—**20.92**	28 44 12.50	42.835	+ 30.5	**14.1**	10 27 10.29	—64.57	+10 4 4.0	....
43	β Leonis	11	44 23.55	— 0.43	—20.94	23 44 12.85	42.930	+ 24.4	14.0	11 44	.....	.. ..	....
44	Venus I, C	11	24 49.86	— 0.34	-**20.92**	40 44 11.85	44.879	+ 47.7	**14.1**	12 24 28.60	+ 0.42	— 1 53 35.7	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
22 16 24	29.94	83.9	83.2
18 0	29.95	80.0	78.6
18 57	29.955	78.4	77.0
25 7 11	29.91	75.9	74.8
7 46	29.91	77.0	75.6
26 10 21	29.89	79.8	78.5
11 12	29.885	81.0	79.9
12 20	29.87	82.1	80.8
13 25	29.85	81.5	81.0
17 10	29.83	76.5	75.1
17 33	29.83	75.1	74.0
18 25	29.84	74.5	73.6
19 11	29.85	73.9	72.9
20 27	29.845	73.2	72.2
27 20 36	29.96	72.0	70.8
21 31	29.96	71.0	69.5
8 47	30.055	75.0	73.1
9 34	30.05	76.8	75.0
28 10 28	30.055	77.8	76.4
11 50	30.035	79.1	77.1
12 32	30.03	80.0	77.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 8, 21, 22, 23, 24, 35, 41, 42.	Z. D. thread A used.
1, 35.	Bisections at II, III, IV, V, VI.
8, 42.	Bisections at V, VI, VII.
17.	Bisections at II, VI, VII.
20.	Bisections at c_1, c_2, c_3, c_4, c_5.
21, 23.	Bisections at I, VII.
22, 24.	Bisections at II, VI.
25.	Bisections at c_4, c_3, c_2, c_1.
27, 28, 39.	Bisections at I, II.
31.	Bisections at I, II, VI.
36, 43.	Bisections at VI, VII.
41.	Bisections at I, II, III.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+46 42.5	—14 54.2	...	+31 48.3
8	+ 4.2	+15 52.1	...	+15 56.3
12	+ 4.1	....	— 0.1	+ 4.0
21	+ 1.7	— 21.7	...	— 20.0
22	+ 1.7	+ 21.7	...	+ 23.4
23	+ 0.8	+ 8.6	...	+ 9.4
24	+ 0.8	— 8.6	...	— 7.8
35	+45 41.6	+15 49.6	...	+61 31.2
41	+ 4.3	+15 52.3	...	+15 56.6
42	+ 4.2	—15 52.2	...	—15 48.0
44	+ 4.3	....	— 0.1	+ 4.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Virginis	11	20 21.97	− 0.29	−20.97	49 28 2.72	48.428	+1 4.7	14.4	13 20	.....	.. ..	....
2	η Bootis	11	50 21.35	− 0.45	−20.88	19 58 11.82	42.562	+ 20.1	14.0	13 50	.....	.. ..	....
3	α Bootis	11	11 31.86	− 0.45	−20.91	19 8 11.52	48.085	+ 19.3	13.3	14 11	.....	.. ..	....
4	θ Herculis	11	53 15.67	− 0.58	[−21.04]	1 36 10.38	41.856	+ 1.6	[14.8]	17 52	.....	.. ..	....
5	δ Ursæ Minoris	9	4 35.66	− 4.29	[−26.07]	312 16 12.10	41.816	−1 1.3	[14.0]	18 4	.....	.. ..	....
6	51 H. Cephei S. P. ...	4	54 37.75	+ 4.27	[−19.62]	306 4 11.48	45.891	−1 16.5	[13.0]	6 54	.....	.. ..	....
7	β Aquarii..........	11	26 46.38	− 0.26	−21.08	44 50 12.60	45.589	+ 56.2	13.2	21 26	.....	.. ..	....
8	ξ Aquarii..........	11	32 54.38	− 0.24	−21.00	47 8 12.40	43.758	+1 0.9	13.4	21 32	.....	.. ..	....
9	Moon I, S	11	47 2.03	− 0.25	**−21.01**	47 50 11.78	42.137	+1 2.5	**13.9**	21 46 40.77	+67.24	−9 2 12.8	....
10	α Aquarii..........	11	1 7.37	− 0.30	−20.96	39 38 12.32	44.986	+ 46.9	14.9	22 0	.....	.. ..	....
11	θ Aquarii..........	11	12 2.05	− 0.24	−21.02	47 6 11.48	45.891	+1 1.0	14.0	22 11	.....	.. ..	....
	August 29, Br.												
12	π Aquarii..........	11	20 38.76	− 0.38	−20.99	37 58 12.68	43.300	+ 43.9	13.1	22 20	.....	.. ..	....
13	η Aquarii..........	11	30 41.70	− 0.37	−21.02	39 28 12.90	43.660	+ 46.4	13.0	22 30	.....	.. ..	....
14	Moon II, N	11	44 50.12	− 0.37	**−21.01**	42 22 11.95	40.738	+ 51.4	**13.0**	22 44 28.74	−67.39	− 3 33 36.0	....
15	λ Aquarii..........	11	47 52.52	− 0.33	−21.04	46 56 12.08	45.110	+1 0.2	12.9	22 47	.....	.. ..	....
16	φ Aquarii..........	11	9 37.16	− 0.34	−20.99	45 26 12.32	40.911	+ 57.1	13.0	23 9	.....	.. ..	....
	August 29, B.												
17	α² Geminorum	11	28 40.73	− 0.50	−20.79	6 44 10.92	47.810	+ 6.6	12.9	7 28	.....	.. ..	....
18	α Canis Minoris....	11	34 30.36	− 0.34	−20.82	33 22 11.98	44.844	+ 36.6	13.7	7 34	.....	.. ..	....
19	β Geminorum	11	39 39.06	0.48	−20.79	10 36 11.08	42.710	+ 10.4	13.8	7 39	.....	.. ..	....
20	α Leonis	11	3 28.93	− 0.38	−20.89	26 24 12.60	44.468	+ 27.3	14.4	10 3	.....	.. ..	....
	August 30, B.												
21	Sun I, S.........	11	32 39.74	− 0.36	**−20.86**	29 58 12.80	44.123	+ 31.7	**14.6**	10 32 18.52	+64.53	+ 8 49 40.7	....
22	Sun II, N........	11	34 48.81	− 0.36	**−20.86**	29 26 13.72	44.605	+ 31.0	**14.6**	10 34 27.59	−64.54	+ 9 21 28.8	....
23	β Leonis	11	44 23.50	− 0.41	−20.91	23 44 11.85	43.144	+ 24.0	14.7	11 44	.....	.. ..	....
24	Venus I, C.......	5	33 33.40	− 0.34	**−20.89**	41 46 11.65	44.944	+ 48.8	**15.3**	12 33 12.17	+ 0.48	− 2 55 36.7	....
25	Venus II	6	33 34.23	− 0.34	**−20.89**	... .	......	....	....	12 33 13.00	− 0.35	.. ..	....
26	ε Virginis	11	57 37.88	− 0.42	−20.82	27 22 12.20	43.008	+ 28.3	16.0	12 57	.....	.. ..	....
27	α Virginis	11	20 21.90	− 0.30	−20.91	49 28 12.65	47.985	+1 3.8	15.0	13 20	.....	.. ..	....
28	ζ Virginis	11	30 2.19	− 0.37	−20.95	38 56 11.92	44.912	+ 44.0	16.1	13 29	.....	.. ..	....
	August 31, L.												
29	γ Pegasi...........	11	8 34.12	- 0.42	−21.31	24 12 14.12	45.901	+ 25.3	12.7	0 8	.....	.. ..	....
30	44 Piscium	11	20 45.20	− 0.38	−21.18	37 26 12.40	46.596	+ 43.0	13.2	0 20	.....	.. ..	....
31	Moon II, N	11	37 50.81	− 0.41	**−21.28**	32 0 12.82	41.427	+ 35.2	**12.9**	0 37 29.12	−68.62	+ 6 48 26.0	....
32	δ Piscium	11	43 58.45	− 0.40	−21.33	31 48 12.80	43.026	+ 34.9	12.7	0 43	.....	.. ..	....
33	ε Piscium	11	58 13.95	− 0.40	−21.32	31 30 11.98	41.102	+ 34.5	13.0	0 57	.....	.. ..	....
	September 1, L.												
34	6 B. Ursæ Minoris S.P..	6	13 47.63	+ 7.88	[−21.71]	307 8 13.15	42.304	−1 13.9	[14.5]	12 13	.....	.. ..	....
35	f Piscium	11	13 7.30	− 0.37	−21.54	35 44 13.22	46.462	+ 40.6	12.9	1 12	.....	.. ..	....
36	α Ursæ Minoris	8	24 54.56	−12.22	[−19.82]	310 6 12.12	43.310	−1 6.6	[13.9]	1 24	.....	.. ..	....
37	Moon II, N	11	36 12.25	− 0.41	**−21.46**	27 16 13.40	44.299	+ 29.1	**12.5**	1 35 50.38	−69.62	+11 31 36.0	....
38	ο Piscium	11	40 35.57	− 0.39	−21.41	30 12 12.98	40.755	+ 32.8	12.1	1 40	.....	.. ..	....
39	ζ Ceti..............	6	46 59.77	− 0.30	−21.50	49 40 12.52	42.172	+1 6.3	13.0	1 46	.....	.. ..	....
40	β Arietis	9	49 36.06	− 0.45	−21.37	18 32 12.52	42.020	+ 18.9	12.0	1 49	.....	.. ..	....
	September 3, B.												
41	ο Cephei	7	15 3.29	− 0.89	[−22.43]	331 18 11.22	42.150	− 30.9	12.5	23 14	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
28 13 27	30.02	78.9	76.7
14 16	30.01	78.6	76.9
18 0	30.00	72.2	71.0
19 14	30.00	70.8	69.5
21 19	30.00	67.2	66.0
22 18	30.00	65.9	64.7
29 22 18	29.90	67.8	66.2
22 36	29.895	67.8	66.1
23 13	29.88	67.1	65.9
7 23	29.87	73.1	72.5
7 43	29.87	74.1	73.3
10 4	29.86	79.8	78.6
30 10 35	29.85	80.6	79.0
11 43	29.84	81.8	80.8
12 23	29.83	82.3	80.8
13 17	29.81	82.6	81.2
13 35	29.805	82.0	81.6
31 0 3	29.72	67.8	64.2
1 2	29.74	66.9	64.0
1 0 20	29.74	66.1	63.7
1 4	29.74	65.9	62.6
1 55	29.75	65.5	63.3
3 23 16	29.94	65.8	64.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 36.	Bisections at c_1, c_2, c_3, c_4, c_5.
6.	Bisections at c_5, c_4, c_3, c_2, c_1.
9, 14, 21, 22, 31, 37.	Z. D. thread A used.
9, 14, 31, 37.	Bisections at II, III, IV, V, VI.
15, 40, 41.	Bisections at VI, VII.
21.	Bisections at I, II, III.
22.	Bisections at V, VI, VII.
26.	Bisections at I, II, VII.
34.	Bisections at c_5, c_4, c_3, c_2.
38.	Bisections at II, VI, VII.
39.	Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
9	+43 25.0	+16 1.5	...	+59 26.5
14	+39 52.0	−16 11.8	...	+23 40.2
21	+ 4.4	+15 54.0	...	+15 58.4
22	+ 4.3	−15 54.0	...	−15 49.7
24	+ 4.4	....	− 0.1	+ 4.3
31	+31 40.1	−16 22.2	...	+15 17.9
37	+27 22.7	−16 22.2	...	+11 0.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	λ Andromedæ	11	33 9.95	− 0.54	−21.49	352 56 10.25	43.774	− 7.0	12.6	23 32	.....	.. ..	....
2	B. D. +46° 4226..	11	55 9.25	− 0.55	**−21.49**	351 48 11.52	44.718	− 8.0	**12.7**	23 54 47.21	.....	+47 3 21.4	....
3	α Andromedæ	11	3 42.49	− 0.41	−21.50	10 18 10.38	44.960	+ 10.3	[12.8]	0 3	.....	.. ..	....
4	6 B. Ursæ Minoris s. p.	7	13 42.21	+ 7.96	[−16.97]	307 8 10.82	42.397	−1 14.4	[13.8]	12 13	.....	.. ..	....
5	ο Cassiopeiæ	11	39 39.57	− 0.55	−21.49	351 6 11.28	46.350	− 8.8	12.6	0 39	.....	.. ..	....
6	α Ursæ Minoris....	8	25 0.82	−12.14	[−24.53]	310 6 9.90	43.369	−1 6.9	13.1	1 24	.....	.. ..	....
7	ζ Arietis	11	9 38.35	− 0.36	−21.59	18 10 11.90	45.044	+ 18.7	13.2	3 9	.....	.. ..	....
8	*f* Tauri	11	25 49.77	− 0.32	−21.50	26 14 12.82	46.965	+ 28.0	13.2	3 25	.....	.. ..	....
9	Moon II, N	11	37 26.94	− 0.36	**−21.52**	20 30 10.95	40.028	+ 21.3	**13.1**	3 37 5.06	−71.34	+18 19 8.7	....
10	η Tauri	11	42 1.57	− 0.38	−21.53	15 4 11.20	41.400	+ 15.3	12.7	3 41	.....	.. ..	....
11	ζ Persei	11	48 20.30	− 0.43	−21.47	7 16 9.55	43.856	+ 7.3	13.4	3 47	.....	.. ..	....
	September 3, L.												
12	α Canis Minoris	11	34 31.31	− 0.28	−21.71	33 22 14.02	44.601	+ 36.9	11.4	7 34	.....	.. ..	....
13	β Geminorum......	11	39 39.93	− 0.38	−21.64	10 36 11.42	42.601	+ 10.5	11.8	7 39	.....	.. ..	....
14	ε Hydræ	10	41 55.92	− 0.28	−21.72	32 4 11.90	44.339	+ 34.9	12.6	8 41	.....	.. ..	....
15	α Hydræ	11	23 6.93	− 0.22	−21.72	47 4 13.45	45.069	+ 59.7	11.8	9 22	.....	.. ..	....
	September 4, L.												
16	Sun I, S	11	50 48.53	− 0.28	**−21.76**	31 48 13.28	40.795	+ 34.3	**12.1**	10 50 26.49	+64.33	+ 7 0 38.9	....
17	Sun II, N........	11	52 57.19	− 0.28	**−21.76**	31 16 13.08	41.242	+ 33.6	**12.1**	10 52 35.15	−64.33	+ 7 32 28.9	....
18	α Canum Venat....	9	51 47.10	− 0.44	−21.80	0 0 11.15	45.080	+ 0.1	12.0	12 51	.....	.. ..	....
19	Venus I, C........	6	55 25.65	− 0.23	**−21.81**	44 20 11.58	44.955	+ 53.6	**12.1**	12 55 3.61	+ 0.50	− 5 29 44.8	....
20	Venus II	5	55 26.50	− 0.23	**−21.81**	... .	......	....	....	12 55 4.46	− 0.35	.. ..	....
21	α Virginis	11	20 22.76	− 0.20	−21.92	49 28 12.48	47.816	+1 4.1	12.2	13 20	.....	.. ..	....
22	η Bootis...........	11	50 22.08	− 0.34	−21.81	19 58 12.25	42.482	+ 20.0	12.4	13 49	.....	.. ..	....
23	α Bootis...........	11	11 32.63	− 0.34	−21.89	19 8 12.45	48.028	+ 19.1	12.5	14 11	.....	.. ..	....
24	ρ Bootis...........	7	27 57.41	− 0.40	−21.74	8 2	......	....	....	14 27	.....	.. ..	....
	September 4, Hd.												
25	α Aquarii..........	10	1 8.33	− 0.30	−21.91	39 38 12.75	45.022	+ 46.4	14.2	22 0	.....	.. ..	....
26	B. D. −4° 5617 ...	11	3 29.77	− 0.28	**−21.96**	42 50 11.60	47.380	+ 52.0	**13.7**	22 3 7.53	.....	− 4 0 28.1	....
27	B. D. −4° 5638 . .	11	9 20.14	− 0.28	**−21.96**	42 56 12.00	45.361	+ 52.1	**13.7**	22 8 57.90	.....	− 4 5 49.9	....
28	θ Aquarii..........	11	12 3.12	− 0.26	−22.06	47 6 11.22	45.919	+1 0.3	13.8	22 11	.....	.. ..	....
29	γ Aquarii..........	11	16 58.95	− 0.29	−21.91	40 44 11.52	42.106	+ 48.3	13.8	22 16	.....	.. ..	....
30	π Aquarii..........	11	20 39.65	− 0.30	−21.94	37 58 11.80	43.322	+ 43.8	13.0	22 20	.....	.. ..	....
	September 4, L.												
31	ε Tauri	11	23 15.77	− 0.34	−21.88	19 54 12.88	42.048	+ 20.5	12.8	4 22	.....	.. ..	....
32	α Tauri	11	30 39.95	− 0.33	−21.94	22 32 12.58	45.152	+ 23.5	12.9	4 30	.....	.. ..	....
33	Moon II, N	11	39 27.58	− 0.35	**−21.89**	18 56 11.98	40.130	+ 19.5	**12.6**	4 39 5.34	−71.50	+19 53 7.1	....
34	*i* Tauri............	11	46 0.44	− 0.34	−21.87	20 10 11.95	46.416	+ 20.8	11.8	4 45	.....	.. ..	....
35	11 Orionis..........	11	59 20.06	− 0.33	−21.88	23 34 12.82	47.175	+ 24.7	12.8	4 58	.....	.. ..	....
	September 4, Y.												
36	α Lyncis	11	15 25.61	− 0.48	−21.73	4 2 9.65	47.172	+ 4.0	13.3	9 15	.....	.. ..	....
37	α Hydræ..........	10	23 7.10	− 0.26	−21.84	47 4 12.72	45.236	+ 59.3	14.0	9 22	.....	.. ..	....
38	ε Leonis	10	40 37.98	− 0.42	−21.81	14 38 12.70	42.830	+ 14.4	13.0	9 40	.....	.. ..	....
39	γ^1 Leonis	10	14 54.78	− 0.41	−21.77	18 30 10.20	46.718	+ 18.4	13.9	10 14	.....	.. ..	....
	September 5, Y.												
40	Sun I, N.........	11	54 25.54	− 0.35	**−21.76**	31 38 11.95	42.020	+ 33.9	**13.7**	10 54 3.43	+64.22	+ 7 10 18.8	....
41	Sun II, S	11	56 33.98	− 0.35	**21.76**	32 10 12.05	41.193	+ 34.6	**13.7**	10 56 11.87	−64.22	+ 6 38 31.4	....
42	Mercury I, C	6	27 5.73	− 0.36	**− 21.75**	33 56 11.75	41.938	+ 36.8	**13.8**	11 26 43.62	+ 0.20	+ 4 55 31.3	....
43	Mercury II	5	27 6.12	− 0.36	**−21.75**	... .	......	....	....	11 26 44.01	− 0.19	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
3 0 8	29.935	65.2	64.2
0 50	29.935	65.0	64.2
1 30	29.935	64.8	63.8
3 6	29.935	64.2	63.5
3 51	29.94	63.1	62.0
7 32	29.99	71.5	70.6
7 47	29.99	72.2	70.9
8 45	30.00	74.9	73.2
9 26	30.01	76.8	74.9
4 10 53	29.995	78.2	77.2
13 23	29.96	81.8	80.7
13 53	.....	....	80.7
14 14	29.95	82.0	80.9
21 52	29.94	71.0	69.8
22 24	29.94	70.2	69.0
4 26	29.94	66.0	64.3
5 2	29.94	66.1	64.9
9 10	29.995	78.3	77.5
9 59	29.99	80.4	79.7
5 10 57	29.99	82.0	81.0
11 32	29.985	82.9	82.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4.	Bisections at c_4, c_3, c_2, c_1, b_3.
5.	Bisections at VI, VII.
6.	Bisections at c_1, c_2, c_3, c_4, c_5.
9, 16, 17, 33, 40, 41.	Z. D. thread A used.
9.	Bisections at II, III, IV, V, VI.
16.	Bisections at I, III.
17, 41.	Bisections at V, VI, VII.
25.	Bisections at I, II.
33.	Bisections at II, IV, VI.
40.	Bisections at I, II, III.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
9	+20 42.3	−16 13.7	...	+ 4 28.6
16	+ 4.6	+15 55.0	...	+15 59.6
17	+ 4.5	−15 54.9	...	−15 50.4
19	+ 4.7	....	− 0.1	+ 4.6
33	+19 2.2	−16 6.6	...	+ 2 55.6
40	+ 4.6	−15 53.6	...	−15 49.0
41	+ 4.7	+15 53.7	...	+15 58.4
42	+ 3.6	....	0.0	+ 3.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Canum Venat....	11	51 47.20	− 0.61	−21.74	0 0 9.55	45.162	+ 0.1	13.7	12 51	.....	.. ..	....
2	Venus I, C	11	59 48.72	− 0.33	**−21.72**	44 50 11.72	46.822	+ 54.3	**14.0**	12 59 26.67	+ 0.44	− 6 0 19.5	...
3	α Virginis	11	20 22.71	− 0.31	−21.76	49 28 12.28	47.925	+1 3.8	14.6	13 20	.....	.. ..	....
4	α Bootis	11	11 32.56	− 0.51	−21.66	19 8 11.98	48.132	+ 19.0	13.9	14 11	.....	.. ..	....
5	ρ Bootis	11	27 57.55	− 0.60	−21.70	8 2 10.00	47.098	+ 7.8	14.5	14 27	.....	.. ..	....
6	ε Bootis	11	41 3.65	− 0.58	−21.67	11 22 10.25	43.260	+ 11.0	13.8	14 40	.....	.. ..	....
7	11 Orionis	11	59 19.98	− 0.39	−21.71	23 34 11.95	47.259	+ 24.6	13.4	4 58	.....	.. ..	....
8	β Tauri	11	20 27.61	− 0.47	−21.74	10 20 10.98	43.814	+ 10.3	13.2	5 20	.....	.. ..	....
9	Moon II, N	11	41 7.55	− 0.43	**−21.74**	18 42 11.85	47.138	+ 19.1	**13.4**	5 40 45.38	−70.96	+20 4 54.0	....
10	ν Orionis	11	2 20.20	− 0.39	−21.80	24 4 12.72	44.826	+ 25.1	13.7	6 1	.....	.. ..	....
11	μ Geminorum	11	17 23.34	− 0.43	−21.72	16 18 11.48	42.219	+ 16.4	13.1	6 17	.....	.. ..	....
	September 5, B.												
12	α Lyncis	11	15 25.58	− 0.48	−21.68	4 2 11.98	47.130	+ 4.0	14.7	9 15	.....	.. ..	....
13	α Hydræ	11	23 7.00	− 0.25	−21.73	47 4 11.95	45.322	+ 59.3	14.9	9 22	.....	.. ..	....
14	ε Leonis	11	40 37.87	− 0.42	−21.68	14 38 12.15	42.936	+ 14.4	14.4	9 40	.....	.. ..	....
15	α Leonis	11	3 29.77	− 0.36	−21.68	26 24 12.92	44.552	+ 27.4	16.2	10 3	.....	.. ..	....
	September 6, B.												
16	Sun I, N	11	58 2.19	− 0.35	**−21.72**	31 58 12.42	49.253	+ 34.4	**15.3**	10 57 40.12	+64.18	+ 6 48 0.7	....
17	Sun II, S.........	11	0 10.55	− 0.35	**−21.72**	32 30 11.40	48.537	+ 35.1	**15.3**	10 59 48.48	−64.18	+ 6 16 12.4	....
18	Mercury I, C	6	33 30.60	− 0.34	**−21.73**	34 42 13.80	45.220	+ 38.0	**15.3**	11 33 8.53	+ 0.23	+ 4 8 26.6	....
19	Mercury II	5	33 31.06	− 0.34	**−21.73**	... .	......	....	....	11 33 8.99	− 0.23	.. ..	....
20	β Leonis	11	44 24.31	− 0.41	−21.72	23 44 12.48	43.132	+ 24.1	14.7	11 44	.....	.. ..	....
21	γ Corvi	11	11 6.61	− 0.23	−21.77	55 50 11.58	43.778	+1 20.5	16.2	12 10	.....	.. ..	....
22	ε Virginis	11	57 38.75	− 0.40	−21.75	27 22 12.10	42.962	+ 28.4	15.4	12 57	.....	.. ..	....
23	Venus I, C	11	4 11.85	− 0.30	**−21.75**	45 20 11.85	48.231	+ 55.4	**15.3**	13 3 49.80	+ 0.44	− 6 30 46.5	....
24	ζ Virginis	11	30 2.89	− 0.34	−21.74	38 56 11.80	44.880	+ 44.3	15.8	13 29	.....	.. ..	....
	September 6, L.												
25	β Cancri	8	11 33.08	− 0.43	−21.76	29 22 13.22	43.005	+ 31.2	14.5	8 11	.....	.. ..	....
26	α Lyncis	11	15 25.78	− 0.59	−21.75	4 2 9.15	47.204	+ 3.9	13.0	9 15	.....	.. ..	...
27	α Hydræ	6	23 7.07	− 0.33	−21.71	47 4	......	....	....	9 22	.....	.. ..	....
28	α Leonis	11	3 29.95	− 0.44	−21.77	26 24 12.60	44.441	+ 27.1	13.3	10 3	.....	.. ..	....
29	γ^1 Leonis	11	14 54.92	− 0.49	−21.81	18 30 11.72	46.579	+ 18.3	12.4	10 14	.....	.. ..	....
	September 7, L.												
30	Sun I, N	11	1 38.75	− 0.41	**−21.79**	32 22 12.58	44.258	+ 34.6	**13.0**	11 1 16.55	+64.12	+ 6 25 33.8	...
31	Sun II, S.........	11	3 46.99	− 0.41	**−21.79**	32 54 12.25	43.445	+ 35.3	**13.0**	11 3 24.79	−64.12	+ 5 53 46.3	....
32	Mercury I, C	6	39 50.40	− 0.40	**−21.80**	35 30 13.95	42.091	+ 38.7	**13.0**	11 39 28.20	+ 0.22	+ 3 21 23.5	....
33	Mercury II	5	39 50.82	− 0.40	**−21.80**	... .	......	....	....	11 39 28.62	− 0.20	.. ..	....
34	β Leonis	11	44 24.46	− 0.46	−21.82	23 44 13.95	42.992	+ 23.9	13.2	11 44	.....	.. ..	....
35	ε Virginis	11	57 38.85	− 0.44	−21.82	27 22 12.80	42.745	+ 28.0	13.3	12 57	.....	.. ..	....
36	Venus I, S........	6	8 35.68	- 0.34	**−21.82**	45 52 11.88	43.255	+ 55.8	**13.0**	13 8 13.52	+ 0.45	− 7 1 13.7	....
37	Venus II, N	5	8 36.44	− 0.34	**−21.82**	45 52 11.88	42.668	+ 55.8	**13.0**	13 8 14.28	− 0.31	− 7 1 2.5	....
38	α Virginis	11	20 22.79	− 0.32	−21.85	49 28 11.72	47.932	+1 3.3	13.1	13 20	.....	.. ..	....
39	η Bootis	11	50 22.18	− 0.48	−21.80	19 58 15.28	42.265	+ 19.7	11.5	13 49	.....	.. ..	....
	September 7, Hd.												
40	μ Capricorni	11	48 20.45	− 0.39	−21.84	52 50 11.35	46.941	+1 12.6	14.4	21 47	.....	.. ..	....
41	B. D. −5° 5682...	11	56 29.68	− 0.44	**−21.80**	44 24 11.55	49.610	+ 54.0	**14.3**	21 56 7.44	.....	− 5 35 12.2	....
42	α Aquarii..........	11	1 8.36	− 0.46	−21.78	39 38 11.60	45.165	+ 45.6	15.2	22 0	.....	.. ..	....
43	B. D. −4° 5617...	11	3 29.78	− 0.45	**−21.80**	42 50 11.22	47.484	+ 51.1	**14.3**	22 3 7.53	.....	− 4 0 28.2	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
5 12 55	29.97	86.0	83.2
14 17	29.95	84.2	83.4
14 46	29.95	84.1	83.6
4 51	29.96	69.0	68.3
5 26	29.96	69.6	68.9
6 23	29.975	70.8	70.2
9 12	30.01	79.5	77.6
10 5	30.005	80.8	79.8
6 11 0	30.00	82.0	81.0
11 46	29.99	82.8	81.9
12 36	29.98	83.0	82.2
13 32	29.97	82.8	81.2
8 14	29.89	75.9	75.0
9 18	29.89	80.0	79.8
10 5	29.87	81.4	81.8
10 15	......	....	82.0
7 11 4	29.85	83.0	83.0
11 46	29.84	84.0	84.0
12 59	29.82	86.0	85.0
13 9	......	....	85.0
13 20	29.81	85.9	84.8
13 52	29.80	85.0	84.8
21 42	29.755	75.7	74.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 31, 35.	Bisections at VI, VII.
3, 39.	Bisections at II, VI, VII.
5.	Bisections at I, II, VI.
9, 16, 17, 30, 31.	Z. D. thread A used.
9.	Bisections at II, III, IV, V, VI.
16, 30.	Bisections at I, II, III.
17.	Bisections at V, VI, VII.
25, 42.	Bisections at I, II.
36.	Bisections at I, VII.
37.	Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 4.8	....	− 0.1	+ 4.7
9	+18 41.4	−15 58.6	...	+ 2 42.8
16	+ 4.6	−15 54.1	...	−15 49.5
17	+ 4.7	+15 54.1	...	+15 58.8
18	+ 3.6	... .	0.0	+ 3.6
23	+ 4.8	....	− 0.1	+ 4.7
30	+ 4.7	−15 53.7	...	−15 49.0
31	+ 4.8	+15 53.7	...	+15 58.5
32	+ 3.7	....	0.0	+ 3.7
36	+ 4.9	+ 5.7	− 0.2	+ 10.4
37	+ 4.9	− 5.7	...	− 0.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	B. D. −4° 5638 ...	11	9 20.15	− 0.44	**−21.80**	42 56 11.90	45.430	+ 51.3	**14.3**	22 8 57.91	.....	− 4 5 49.7	....
2	θ Aquarii	11	12 3.03	− 0.42	−21.80	47 6 11.78	45.954	+ 59.3	14.1	22 11	.....	.. ..	....
3	γ Aquarii	11	16 58.98	− 0.46	−21.76	40 44 11.40	42.165	+ 47.4	14.1	22 16	.....	.. ..	....
4	π Aquarii	11	20 39.72	− 0.47	−21.83	37 58 11.72	43.392	+ 43.0	13.7	22 20	.....	.. ..	....
	September 7, L.												
5	δ Geminorum	11	14 37.45	− 0.43	−21.74	16 40 11.92	48.400	+ 16.6	[11.5]	7 14	.....	.. ..	....
6	β Canis Minoris	11	22 11.44	− 0.36	−21.82	30 22 11.90	43.202	+ 32.4	[14.3]	7 21	.....	.. ..	....
7	α^2 Geminorum	11	28 41.99	− 0.49	−21.81	6 44 9.98	47.940	+ 6.6	[13.6]	7 28	.....	.. ..	....
8	α Canis Minoris	11	34 31.58	− 0.34	−21.83	33 22	......	....	....	7 34	.....	.. ..	....
9	Moon II	11	39 19.96	− 0.41	**−21.80**	22 26	......	....	....	7 38 57.75	−68.13	.. ..	....
	September 8, Y.												
10	α^2 Geminorum	11	28 41.71	− 0.39	−21.60	6 44 11.45	47.872	+ 6.8	13.9	7 28	.....	.. ..	....
11	α Canis Minoris	11	34 31.39	− 0.28	−21.67	33 22 13.62	44.662	+ 37.7	13.0	7 34	.....	.. ..	....
12	β Geminorum	11	39 40.06	− 0.38	−21.64	10 36 11.70	42.671	+ 10.8	13.3	7 39	.....	.. ..	....
13	α Leonis	10	3 29.73	− 0.36	−21.61	26 24 11.80	44.290	+ 28.1	12.4	10 3	.....	.. ..	....
14	γ^1 Leonis	11	14 54.65	− 0.41	−21.60	18 30 11.85	46.588	+ 19.0	13.2	10 14	.....	.. ..	....
	September 9, Y.												
15	Sun I, S	11	8 50.68	− 0.33	**−21.57**	33 38 13.35	46.883	+ 37.6	**13.0**	11 8 28.78	+64.14	+ 5 8 39.7	....
16	Sun II, N	11	10 58.95	− 0.33	**−21.57**	33 6 13.02	47.183	+ 36.8	**13.0**	11 10 37.05	−64.13	+ 5 40 32.7	....
17	β Leonis	11	44 24.07	− 0.38	−21.51	23 44 12.08	42.985	+ 24.7	12.5	11 44	.....	.. ..	....
18	Mercury I, C	6	52 13.87	− 0.30	**−21.56**	37 2 12.72	46.994	+ 42.4	**13.0**	11 51 52.01	+ 0.15	+ 1 47 47.0	....
19	Mercury II	5	52 14.16	− 0.30	**−21.56**	... .	......	....	....	11 51 52.30	− 0.14	.. ..	....
20	γ Corvi	11	11 6.41	− 0.18	−21.62	55 50 11.72	43.511	+1 22.4	13.4	12 10	.....	.. ..	....
21	δ^2 Corvi	9	25 8.15	− 0.19	−21.67	54 48 12.55	44.592	+1 19.3	12.6	12 24	.....	.. ..	....
22	α Canum Venat	11	51 46.76	− 0.56	−21.39	0 0 9.58	45.249	+ 0.1	12.7	12 51	.....	.. ..	....
23	ε Virginis	11	57 38.47	− 0.36	−21.53	27 22 13.00	42.800	+ 28.9	13.4	12 57	.....	.. ..	....
24	Venus S	..	.. ..	....	.....	46 52 12.35	43.955	+ 59.7	**13.0**	13 17	.....	− 8 1 31.5	....
25	Venus N	..	.. ..	....	.....	46 52 12.35	43.315	+ 59.7	**13.0**	.. ..	.....	− 8 1 19.3	....
26	ξ Aquarii	11	32 54.94	− 0.22	−21.60	47 8 12.65	43.515	+1 1.3	11.5	21 32	.....	.. ..	....
27	ε Pegasi	11	39 45.30	− 0.33	−21.51	29 26 13.00	41.404	+ 32.2	12.2	21 39	.....	.. ..	....
28	μ Capricorni	11	48 20.02	− 0.19	−21.61	52 52 12.00	40.429	+1 15.1	12.7	21 47	.....	.. ..	....
29	B. D. −5° 5682 ...	11	56 29.18	− 0.24	**−21.57**	44 24	......	....	....	21 56 7.37	.....	.. ..	....
30	α Aquarii	11	1 7.91	− 0.27	−21.52	39 38 12.65	44.855	+ 47.2	12.4	22 0	.....	.. ..	....
31	B. D. −4° 5617 ...	11	3 29.31	− 0.25	**−21.56**	42 50 12.35	47.258	+ 52.9	**12.3**	22 3 7.50	.....	− 4 0 28.8	....
32	B. D. −4° 5638 ...	11	9 19.73	− 0.25	**−21.56**	42 56 12.32	45.155	+ 53.1	**12.3**	22 8 57.92	.....	− 4 5 50.5	....
33	θ Aquarii	11	12 2.59	− 0.22	−21.56	47 6 12.32	45.718	+1 1.4	12.2	22 11	.....	.. ..	....
34	γ Aquarii	11	16 58.62	− 0.26	−21.60	40 44 12.35	41.971	+ 49.1	13.2	22 16	.....	.. ..	....
35	π Aquarii	11	20 39.26	− 0.28	−21.56	37 58 12.68	43.160	+ 44.5	11.8	22 20	.....	.. ..	....
36	B. D. +46° 4226 ..	11	55 9.05	− 0.62	**−21.39**	351 48 11.38	44.596	− 8.2	**12.9**	23 54 47.04	.....	+47 3 24.3	....
37	6 B. Ursæ Minoris S.P.	9	13 41.23	+ 9.80	[−19.13]	307 8 11.10	42.217	−1 15.1	[12.4]	12 13	.....	.. ..	....
38	π Andromedæ	11	32 1.98	− 0.48	−21.34	5 40 10.30	45.692	+ 5.7	12.7	0 31	.....	.. ..	....
39	ο Cassiopeiæ	11	39 39.56	− 0.62	−21.29	351 6 11.70	46.324	− 8.9	12.3	0 39	.....	.. ..	....
40	β Andromedæ.	11	4 37.74	− 0.50	−21.29	3 46 10.62	42.048	+ 3.8	13.8	1 4	.....	.. ..	....
41	α Ursæ Minoris	7	25 5.33	−14.81	[−22.18]	310 6 10.80	43.235	−1 7.7	[12.6]	1 24	.....	.. ..	....
	September 10, L.												
42	α Leonis	11	3 29.59	− 0.46	−21.34	26 24 13.78	44.382	+ 27.2	13.2	10 3	.....	.. ..	....
43	γ^1 Leonis	10	14 54.51	− 0.50	−21.34	18 30 12.22	46.576	+ 18.3	12.4	10 14	.....	.. ..	....
	September 11, L.												
44	Sun I, S	11	16 2.38	− 0.42	**−21.36**	34 28 12.62	43.100	+ 37.3	**13.4**	11 15 40.60	+64.05	+ 4 23 8.4	....
45	Sun II, N	11	18 10.49	− 0.42	**−21.36**	33 56 12.60	43.465	+ 36.6	**13.4**	11 17 48.71	−64.06	+ 4 54 59.9	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
7	22	25	29.755	75.2	74.7
	7	16	29.80	73.8	73.3
	7	43	29.81	74.9	74.0
8	7	25	29.98	60.7	58.7
	8	44	29.99	64.6	61.9
	10	8	29.99	67.7	65.0
9	11	12	29.99	69.8	68.1
	11	48	29.985	70.6	68.8
	12	46	29.97	73.9	71.0
	13	23	29.95	73.7	71.5
	21	44	29.93	62.5	60.9
	22	21	29.94	61.8	60.3
	0	2	29.915	60.2	58.8
	0	45	29.90	59.6	58.3
	1	38	29.895	58.8	57.2
10	10	5	29.74	79.3	78.7
	10	16	.....	....	79.1
11	11	18	29.74	82.3	81.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 13, 26, 32, 38.	Bisections at VI, VII.
6.	Bisections at I, II.
15, 16.	Z. D. thread A used.
15, 44.	Bisections at I, II, III.
16, 45.	Bisections at V, VI, VII.
17, 40.	Bisections at II, VI, VII.
24.	Bisections at I, VII.
25.	Bisections at II, VI.
30.	Bisection at II.
37.	Bisections at c_5, c_4, c_3, c_2, c_1.
41.	Bisections at c_1, c_2, c_3, c_4, c_5.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
15	+ 4.9	+15 56.5	...	+16 1.4
16	+ 4.8	−15 56.4	...	−15 51.6
18	+ 3.9	...	0.0	+ 3.9
24	+ 5.0	+ 6.2	− 0.2	+ 11.0
25	+ 5.0	− 6.2	...	− 1.2
44	+ 4.9	+15 55.7	...	+16 0.6
45	+ 4.9	−15 55.8	...	+15 50.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Virginis	6	20 22.34	− 0.34	−21. 41	49 28 12.48	47.962	+1 3.3	14. 6	13 20	. . . . .	.. ..	. . . .
2	η Bootis	10	50 21.74	− 0.49	−21. 39	19 58 12.92	42.630	+ 19.7	15. 0	13 49	. . . . .	.. ..	. . . .
3	α Bootis	10	11 32.26	− 0.50	−21. 45	19 8 11.92	48.200	+ 18.8	14. 4	14 11	. . . . .	.. ..	. . . .
	September 12, Y.												
4	λ Andromedæ	11	33 10.17	− 0.71	−21. 46	352 56 14.58	43.443	− 6.8	14. 2	23 32	. . . . .	.. ..	. . . .
5	B. D.+46° 4226 . .	11	55 9.13	− 0.72	**−21.42**	351 48 10.78	44.648	− 7.9	**14.2**	23 54 46.99	. . . . .	+47 3 24.9	. . . .
6	22 Andromedæ	11	5 37.69	− 0.70	−21. 48	353 20 9.72	43.869	− 6.4	13. 4	0 5	. . . . .	.. ..	. . . .
7	6 B. Ursæ Minoris s. p.	6	13 40.30	+10.36	[−19. 36]	307 8 11.20	42.062	−1 12.5	[13. 3]	12 13	. . . . .	.. ..	. . . .
8	π Andromedæ	11	32 2.15	− 0.58	−21. 37	5 40 10.70	45.817	+ 5.6	15. 0	0 31	. . . . .	.. ..	. . . .
9	β Andromedæ	11	4 37.95	− 0.60	−21. 35	3 46 8.98	42.171	+ 3.7	14. 4	1 4	. . . . .	.. ..	. . . .
10	α Ursæ Minoris	7	25 6.87	−15.84	[−21. 22]	310 6 10.92	43.122	−1 5.2	[14.0]	1 24	. . . . .	.. ..	. . . .
	September 12, B.												
11	α Lyncis	11	15 25.43	− 0.53	−21. 34	4 2 10.08	47.269	+ 4.0	14. 3	9 15	. . . . .	.. ..	. . . .
12	α Hydræ	11	23 6.90	− 0.31	−21. 47	47 4 12.55	45.282	+ 59.1	14. 9	9 22	. . . .	.. ..	. . . .
13	ο Leonis	11	36 15.75	− 0.40	−21. 41	28 30 12.85	45.931	+ 29.9	15. 3	9 35	. . . . .	.. ..	. . . .
14	ε Leonis	11	40 37.75	− 0.47	−21. 41	14 38 12.12	42.972	+ 14.4	14. 2	9 40	. . . . .	.. ..	. . . .
	September 13, B.												
15	Sun I, N	11	23 13.54	− 0.39	**−21.39**	34 38 11.48	45.302	+ 37.9	**14.9**	11 22 51.76	+64.06	+ 4 9 13.2	. . . .
16	Sun II, S	11	25 21.67	− 0.39	**−21.39**	35 10 11.32	44.828	+ 38.7	**14.9**	11 24 59.89	−64.07	+ 3 37 19.6	. . . .
17	Mercury I, C	5	16 5.50	− 0.37	**−21.39**	40 6 12.50	47.594	+ 46.2	**14.9**	12 15 43.74	+ 0.31	− 1 16 26.1	. . . .
18	Mercury II	6	16 6.08	− 0.37	**−21.39**	. . . .	. . . . . .	. . . .	. . . .	12 15 44.32	− 0.27	.. ..	. . . .
19	ε Virginis	11	57 38.36	− 0.42	−21. 38	27 22 12.52	43.038	+ 28.4	16. 0	12 57	. . . . .	.. ..	. . . .
	September 15, Y.												
20	α Lyncis	11	15 25.51	− 0.47	−21. 41	4 2 9.95	47.319	+ 4.0	14. 6	9 15	. . . . .	.. ..	. . . .
21	α Hydræ	11	23 6.89	− 0.28	−21. 44	47 4 11.22	45.349	+ 59.1	15. 0	9 22	. . . . .	.. ..	. . . .
22	ε Leonis	11	40 37.76	− 0.42	−21.42	14 38 11.88	42.915	+ 14.4	14. 3	9 40	. . . . .	.. ..	. . . .
23	α Leonis	11	3 29.68	− 0.37	−21. 45	26 24 12.48	44.569	+ 27.3	15. 2	10 3	. . . . .	.. ..	. . . .
	September 16, Y.												
24	Sun I, N	11	33 59.93	− 0.35	**−21.35**	35 48 12.05	42.723	+ 39.4	**15.2**	11 33 38.23	+63.97	+ 3 0 1.2	. . . .
25	Sun II, S	11	36 7.87	− 0.35	**−21.35**	36 20 12.48	42.228	+ 40.2	**15.2**	11 35 46.17	−63.97	+ 2 28 7.1	. . . .
26	α Virginis	11	20 22.20	− 0.32	−21. 32	49 28 12.00	48.072	+1 3.5	16. 7	13 20	. . . . .	.. ..	. . . .
27	Venus I, S	3	48 30.92	− 0.32	**−21.27**	50 16 11.95	47.990	+1 5.3	**15.2**	13 48 9.33	+ 0.47	−11 26 51.8	. . . .
28	Venus II, N	5	48 31.70	− 0.32	**−21.27**	50 16 11.95	47.382	+1 5.3	**15.2**	13 48 10.11	− 0.31	−11 26 40.3	. . . .
29	α Bootis	11	11 31.97	− 0.49	−21. 22	19 8 11.38	48.302	+ 18.9	15. 4	14 11	. . . . .	.. ..	. . . .
	September 20, Y.												
30	α Leonis	11	3 28.79	− 0.34	−20. 52	26 24 13.62	44.232	+ 28.5	10. 6	10 3	. . . . .	.. ..	. . . .
31	γ¹ Leonis	11	14 53.65	− 0.37	−20. 48	18 30 10.98	46.510	+ 19.2	9. 5	10 14	. . . . .	.. ..	. . . .
	September 21, Y.												
32	Sun I, S	11	51 55.56	− 0.32	**−20.49**	38 16 12.92	42.930	+ 44.9	**10.4**	11 51 34.75	+64.04	+ 0 31 46.1	. . . .
33	Sun II, N	11	54 3.63	− 0.32	**−20.49**	37 44 12.50	42.985	+ 44.1	**10.4**	11 53 42.82	−64.03	+ 1 3 43.9	. . . .
34	Mercury C	..	.. . .	. . . .	. . . . .	45 56 13.08	43.283	+ 58.5	**10.7**	13 0	. . . . .	− 7 5 19.8	. . . .
35	η Bootis	11	50 20.67	− 0.42	−20. 48	19 58 13.30	42.275	+ 20.6	10. 2	13 49	. . . . .	.. ..	. . . .
36	Venus I, C	6	11 4.48	− 0.31	**−20.48**	52 36 11.00	46.012	+1 13.9	**10.9**	14 10 43.69	+ 0.30	−13 46 25.4	. . . .
37	Venus II	5	11 4.96	− 0.31	**−20.48**	. . . .	. . . . . .	. . . .	. . . .	14 10 44.17	− 0.18	.. ..	. . . .
38	ε Bootis	11	41 2.00	− 0.47	−20. 38	11 22 11.98	43.106	+ 11.4	11. 2	14 40	. . . . .	.. ..	. . . .
39	α² Libræ	11	45 47.18	− 0.32	−20. 50	54 28 12.95	44.086	+1 19.1	10. 9	14 45	. . . . .	.. ..	. . . .
40	γ Scorpii	8	58 39.86	− 0.28	−20. 54	63 42 11.68	47.919	+1 54.3	11. 7	14 58	. . . . .	.. ..	. . . .

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
11 13 22	29. 72	84. 1	83. 5
13 52	. . . . .	. . . .	84. 1
14 13	29. 70	84. 2	83. 7
12 11 28	29. 51	71. 2	70. 0
0 36	29. 50	70. 8	69. 6
9 14	29. 62	74. 8	73. 2
9 49	29. 63	75. 3	74. 3
13 11 26	29. 64	76. 0	75. 8
12 10	29. 615	76. 2	74. 8
13 3	29. 63	78. 0	75. 1
15 9 20	29. 90	78. 6	77. 8
10 9	29. 905	80. 9	79. 3
16 11 37	29. 88	83. 4	82. 5
13 33	29. 855	86. 4	84. 3
14 15	29. 845	85. 6	84. 4
20 9 58	30. 065	60. 8	60. 1
10 59	30. 065	63. 2	62. 0
21 11 55	30. 065	64. 9	64. 3
13 8	30. 050	67. 8	65. 9
14 17	30. 04	69. 0	66. 4
15 4	30. 03	67. 2	65. 5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 8.	Bisections at II, VI, VII.
7.	Bisections at c_3, c_2.
10.	Bisections at c_1, c_2, c_3, c_4, c_5.
15, 16, 24, 25, 32, 33.	Z. D. thread A used.
15.	Bisections at II, III.
16, 25, 33.	Bisections at V, VI, VII.
19, 36.	Bisections at I, II, VI.
22, 35.	Bisections at VI, VII.
24, 32.	Bisections at I, II, III.
27.	Bisections at I, VII.
28.	Bisections at II, VI.
34.	Bisections at I, II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
15	+ 5.0	−15 56.8	. . .	−15 51.8
16	+ 5.1	+15 56.7	. . .	+16 1.8
17	+ 4.2	. . . .	− 0.1	+ 4.1
24	+ 5.1	−15 57.0	. . .	−15 51.9
25	+ 5.2	+15 57.0	. . .	+16 2.2
27	+ 5.5	+ 5.9	− 0.3	+ 11.1
28	+ 5.5	− 5.9	. . .	− 0.4
32	+ 5.4	+15 58.9	. . .	+16 4.3
33	+ 5.4	−15 58.9	. . .	−15 53.5
34	+ 4.9	. . . .	− 0.1	+ 4.8
36	+ 5.8	. . . .	− 0.1	+ 5.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	μ Sagittarii........	11	8 14.97	− 0.27	−20.58	59 54 12.82	46.336	+1 38.3	11.1	18 7	.....	.. ..	....
2	λ Sagittarii........	11	22 16.27	− 0.24	−20.61	64 18 12.78	43.670	+1 58.3	9.2	18 21	.....	.. ..	....
3	Moon I, S.......	11	36 6.50	− 0.28	**−20.60**	58 48 11.90	44.423	+1 34.5	**10.5**	18 35 45.62	+66.59	−20 1 32.2	....
4	σ Sagittarii........	11	49 32.35	− 0.24	−20.60	65 14 14.18	45.175	+2 3.8	11.3	18 49	.....	.. ..	....
5	d Sagittarii........	11	12 15.27	− 0.28	−20.60	57 58 12.68	42.118	+1 31.5	10.4	19 11	.....	.. ..	....
	September 22, L.												
6	d Sagittarii........	11	12 15.27	− 0.45	−20.44	57 58 13.15	42.205	+1 31.0	11.3	19 11	.....	.. ..	....
7	δ Aquilæ..........	11	20 54.76	− 0.50	−20.45	35 56 13.60	41.868	+ 41.4	10.9	19 20	.....	.. ..	....
8	Moon I, S.......	11	30 19.42	− 0.46	**−20.46**	56 50 12.80	47.523	+1 27.3	**10.7**	19 29 58.50	+66.78	−18 1 10.4	....
9	β Sagittæ..........	11	37 0.33	− 0.53	−20.44	21 36 12.35	43.365	+ 22.7	10.2	19 36	.....	.. ..	....
10	γ Aquilæ..........	11	41 57.58	− 0.51	−20.52	28 28 13.52	44.475	+ 31.0	10.5	19 41	.....	.. ..	....
	September 22, Y.												
11	ε Leonis..........	11	40 36.83	− 0.36	−20.41	14 38 13.08	42.788	+ 14.8	10.6	9 40	.....	.. ..	....
12	α Leonis..........	11	3 28.80	− 0.33	−20.50	26 24 15.18	44.130	+ 28.1	11.5	10 3	.....	.. ..	....
13	γ^1 Leonis..........	11	14 53.75	− 0.36	−20.56	18 30 12.52	46.594	+ 19.0	12.2	10 14	.....	.. ..	....
	September 23, Y.												
14	Sun I, N........	11	59 6.55	− 0.33	**−20.45**	38 30 13.28	45.420	+ 44.8	**11.9**	11 58 45.77	+64.03	+ 0 16 59.6	....
15	Sun II, S........	11	1 14.60	− 0.33	**−20.45**	39 2 13.32	45.103	+ 45.6	**11.9**	12 0 53.82	−64.02	− 0 14 57.6	....
16	Mercury I, C....	11	11 29.07	− 0.30	**−20.43**	47 18 13.60	42.769	+1 0.6	**12.2**	13 11 8.34	+ 0.18	− 8 27 11.8	....
17	α Virginis..........	11	20 21.22	− 0.29	−20.39	49 28 12.45	47.745	+1 5.4	13.0	13 20	.....	.. ..	....
18	η Bootis...........	11	50 20.55	− 0.42	−20.38	19 58 12.30	42.555	+ 20.3	12.1	13 49	.....	.. ..	....
19	α Bootis...........	11	11 30.95	0.43	−20.33	19 8 12.70	48.070	+ 19.4	12.0	14 11	.....	.. ..	....
20	Venus I, N......	6	20 11.67	− 0.28	**−20.42**	53 30 11.70	45.088	+1 15.4	**12.5**	14 19 50.97	+ 0.43	−14 40 8.7	....
21	Venus II, S......	5	20 12.36	− 0.28	**−20.42**	53 30 11.70	45.722	+1 15.4	**12.5**	14 19 51.66	− 0.26	−14 40 21.0	....
22	β Libræ...........	11	12 3.92	− 0.31	−20.56	47 52 11.88	42.565	+1 1.7	12.6	15 11	.....	.. ..	....
23	θ Herculis.........	11	53 14.21	− 0.61	[−20.20]	1 36 10.78	41.606	+ 1.6	[11.8]	17 52	.....	.. ..	....
24	δ Ursæ Minoris....	11	4 18.49	− 5.70	[−18.21]	312 16 11.15	41.655	−1 1.5	[11.8]	18 3	.....	.. ..	....
25	51 H. Cephei S. P....	11	54 48.83	+ 6.00	[−20.09]	306 4 10.38	45.714	−1 16.9	[12.1]	6 54	.....	.. ..	....
26	ι Lyræ............	11	4 9.61	− 0.60	[−20.27]	2 54 10.70	44.809	+ 2.9	[12.0]	19 3	.....	.. ..	....
27	θ Aquilæ..........	11	6 36.29	− 0.34	−20.46	39 58 13.95	41.379	+ 47.4	12.6	20 6	.....	.. ..	....
28	α^2 Capricorni........	11	12 58.51	− 0.26	−20.61	51 42 11.75	41.042	+1 11.5	13.3	20 12	.....	.. ..	....
29	Moon I, S.......	11	24 49.68	− 0.25	**−20.57**	53 48 11.78	46.340	+1 17.4	**13.0**	20 24 28.86	+66.88	−15 1 49.2	....
30	ψ Capricorni.......	11	40 39.17	− 0.16	−20.65	64 26 11.82	46.544	+1 57.8	13.9	20 40	.....	.. ..	....
31	μ Aquarii..........	11	47 43.69	− 0.28	−20.56	48 12 12.90	41.788	+1 3.2	12.3	20 47	.....	.. ..	....
	September 23, B.												
32	α Hydræ..........	11	23 5.91	− 0.26	−20.32	47 4 14.08	45.030	+1 0.8	14.3	9 22	.....	.. ..	....
33	ο Leonis..........	11	36 14.83	− 0.36	−20.33	28 30 13.42	45.838	+ 30.7	14.1	9 35	.....	.. ..	....
34	ε Leonis..........	11	40 36.82	− 0.43	−20.31	14 38 11.98	42.968	+ 14.8	12.9	9 40	.....	.. ..	....
35	α Leonis..........	11	3 28.65	− 0.37	−20.29	26 24 13.85	44.421	+ 28.0	13.7	10 3	.....	.. ..	....
	September 24, B.												
36	Sun I, S..........	11	2 41.86	− 0.30	**−20.34**	39 24 13.32	49.708	+ 45.9	**14.2**	12 2 21.22	+64.17	0 38 21.5	....
37	Sun II, N........	11	4 50.20	− 0.30	**−20.34**	38 52 13.00	49.670	+ 45.0	**14.2**	12 4 29.56	−64.17	− 0 6 21.9	...
38	Mercury I, C....	10	16 44.73	− 0.26	**−20.35**	47 58 13.75	42.720	+1 1.5	**14.4**	13 16 24.12	+ 0.18	− 9 7 9.7	....
39	α Virginis..........	11	20 21.22	− 0.26	−20.42	49 28 12.48	47.844	+1 4.9	14.4	13 20	.....	.. ..	....
40	η Bootis...........	11	50 20.51	− 0.43	−20.33	19 58 12.70	42.641	+ 20.2	14.0	13 49	.....	.. ..	....
41	α Bootis...........	10	11 30.83	− 0.44	−20.21	19 8 12.15	48.242	+ 19.3	14.5	14 11	.....	.. ..	....
42	Venus I, C.......	11	24 46.47	− 0.25	**20.37**	53 56 11.28	46.778	+1 15.9	**14.6**	14 24 25.85	+ 0.50	−15 6 39.2	....
43	α^2 Libræ...........	11	45 47.07	− 0.26	−20.48	54 28 12.75	44.408	+1 17.2	15.2	14 45	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
21 18 0	30.03	63.2	61.9
18 46	30.025	60.8	59.3
19 15	30.025	60.5	59.0
22 19 16	30.04	63.2	61.8
19 46	30.04	62.6	61.1
9 45	30.065	67.2	65.5
10 22	30.065	69.4	67.1
23 12 2	30.05	70.5	70.0
13 5	30.035	72.8	71.6
13 56	30.025	74.8	72.8
15 16	30.01	73.1	72.3
17 49	30.00	70.6	69.5
19 10	29.99	67.3	66.3
20 18	29.995	66.0	65.7
20 53	29.995	65.4	65.8
9 22	30.035	67.4	66.2
10 7	30.035	69.4	68.7
24 12 6	30.010	73.8	73.6
13 11	29.995	75.6	74.8
13 49	29.98	78.1	75.7
14 20	29.975	78.0	76.4
14 49	29.97	77.5	77.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 14, 15, 29, 36, 37.	Z. D. thread A used.
3, 29.	Bisections at II, III, IV, V, VI.
5, 32.	Bisections at II, VI, VII.
8.	Bisections at III, IV, V.
12.	Bisections at VI, VII.
14, 36.	Bisections at I, II, III.
15, 37.	Bisections at V, VI, VII.
20.	Bisections at I, VII.
21.	Bisections at II, VI.
24.	Bisections at c_1, c_2, c_3, c_4, c_5.
25.	Bisections at c_5, c_4, c_3, c_2, c_1.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+47 27.1	+15 10.4	...	+62 37.5
8	+47 4.1	+15 23.2	...	+62 27.3
14	+ 5.5	−15 58.6	...	−15 53.1
15	+ 5.5	+15 58.6	...	+16 4.1
16	+ 5.1	....	− 0.2	4.9
20	+ 5.9	− 6.3	...	− 0.4
21	+ 5.9	+ 6.3	− 0.3	+ 11.9
29	+46 7.0	+15 37.7	...	+61 44.7
36	+ 5.6	+15 59.8	...	+16 5.4
37	+ 5.5	−15 59.7	...	−15 54.2
38	+ 5.2	....	− 0.2	+ 5.0
42	+ 6.0	....	− 0.1	+ 5.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ψ Capricorni.......	11	40 39.14	— 0.18	—20.62	64 26 12.42	46.592	+1 57.1	14.6	20 40	.....	.. ..	....
2	μ Aquarii..........	11	47 43.65	— 0.27	—20.54	48 12 12.42	41.864	+1 2.8	12.8	20 47	.....	.. ..	....
3	Moon I, S	11	19 36.19	— 0.28	**—20.51**	49 56 11.15	44.963	+1 7.0	**13.2**	21 19 15.40	+67.02	—11 9 11.6	....
4	β Aquarii..........	11	26 45.65	— 0.29	—20.46	44 50 12.00	45.572	+ 55.9	12.6	21 26	.....	.. ..	....
5	ξ Aquarii..........	11	32 53.77	— 0.28	—20.47	47 8 12.05	43.735	+1 0.6	12.6	21 32	.....	.. ..	....
6	o Cephei	10	15 1.63	— 0.93	[—20.70]	331 18 11.62	41.710	— 30.8	12.1	23 14	.....	.. ..	....
7	λ Andromedæ	11	33 8.95	— 0.59	—20.33	352 56 10.30	43.422	— 6.9	12.2	23 32	.....	.. ..	....
8	B. D. + 46° 4226 ..	11	55 8.14	— 0.60	**—20.31**	351 48 11.58	44.328	— 8.1	**12.4**	23 54 47.23	.....	+47 3 28.6	....
9	α Andromedæ	11	3 41.53	— 0.46	—20.29	10 18	......	....	....	0 3	.....	.. ..	....
10	22 Andromedæ	11	5 36.47	— 0.58	—20.28	353 20 11.30	43.550	— 6.5	12.3	0 5	.....	.. ..	....
11	6 B. Ursæ Minoris s. p.	8	13 40.61	+ 7.61	[—18.12]	307 8 10.52	41.888	—1 14.2	[12.1]	12 13	.....	.. ..	....
12	π Andromedæ	11	32 1.13	— 0.49	—20.31	5 40 10.02	45.648	+ 5.7	13.2	0 31	.....	.. ..	....
13	α Ursæ Minoris	8	25 4.88	-11.82	[—16.93]	310 6 11.28	42.843	—1 6.7	[11.6]	1 24	.....	.. ..	....
	September 25, L.												
14	α Aquarii..........	11	1 7.06	— 0.40	—20.62	39 38 13.35	44.588	+ 48.3	11.3	22 0	.....	.. ..	....
15	θ Aquarii..........	11	12 1.68	— 0.37	—20.56	47 6 12.25	45.735	+1 2.7	11.9	22 11	.....	.. ..	....
16	Moon I, S	11	14 50.89	— 0.39	**—20.55**	45 24 13.98	42.703	+ 59.1	**11.3**	22 14 29.95	+67.36	— 6 33 10.3	....
17	π Aquarii..........	11	20 38.24	— 0.40	—20.46	37 58 13.48	42.961	+ 45.5	10.6	22 20	.....	.. ..	....
18	η Aquarii..........	..	.. ..	....	.....	39 28 14.65	43.318	+ 48.1	11.3	22 30	.....	.. ..	....
	September 25, Y.												
19	α Hydræ	10	23 5.98	— 0.34	—20.27	47 4 14.22	44.842	+1 2.2	11.4	9 22	.....	.. ..	....
20	ε Leonis	11	40 36.78	— 0.43	—20.23	14 38 12.72	42.831	+ 15.1	11.0	9 40	.....	.. ..	....
21	α Leonis	11	3 28.69	— 0.39	—20.28	26 24 13.02	44.346	+ 28.7	11.9	10 3	.....	.. ..	....
22	γ^{1} Leonis	11	14 53.58	— 0.42	—20.28	18 30 11.55	46.589	+ 19.3	10.9	10 14	.....	.. ..	....
	September 26, Y.												
23	Sun I............	9	9 53.75	— 0.36	**—20.31**	40 0	......	....	....	12 9 33.08	+64.05	.. ..	....
24	Sun II...........	11	12 1.85	— 0.36	**—20.31**	... .	......	....	....	12 11 41.18	—64.05	.. ..	....
25	Mercury I, C.....	3	27 8.23	— 0.33	**—20.33**	49 16 2.32	42.838	+1 6.3	**11.7**	13 26 47.57	+ 0.08	—10 25 8.0	....
26	Mercury II	6	27 8.37	-- 0.33	**—20.33**	... .	......	....	....	13 26 47.71	— 0.06	.. ..	....
27	α Bootis	10	11 30.92	— 0.41	—20.35	19 8 13.18	47.935	+ 19.9	11.4	14 11	.....	.. ..	....
28	ε Bootis	11	41 1.90	— 0.44	—20.37	11 22 12.10	43.210	+ 11.5	12.7	14 40	.....	.. ..	....
29	β Libræ...........	11	12 3.72	— 0.33	—20.38	47 52 12.60	42.421	+1 3.1	12.1	15 11	.....	.. ..	....
30	α Coronæ Borealis..	11	30 51.93	— 0.44	—20.27	11 48 11.45	44.882	+ 12.0	12.2	15 30	.....	.. ..	....
31	α Serpentis	3	39 46.36	- 0.38	—20.44	32 6	......	....	....	15 39	.....	.. ..	....
32	λ Aquarii..........	11	47 52.11	— 0.29	—20.62	46 56 12.15	45.029	+1 2.1	11.7	22 47	.....	.. ..	....
33	α Pegasi...........	11	0 14.85	— 0.39	—20.49	24 10 12.78	44.414	+ 26.1	11.4	22 59	.....	.. ..	....
34	Moon I, S........	11	10 56.00	— 0.33	**—20.52**	40 16 12.08	41.688	+ 49.4	**11.4**	23 10 35.15	+67.99	— 1 28 0.9	....
35	θ Piscium	11	23 21.85	— 0.35	—20.50	33 0 12.65	44.610	+ 37.8	11.1	23 23	.....	.. ..	....
36	ι Piscium	11	35 16.61	— 0.35	—20.49	33 44 12.62	46.880	+ 39.0	11.4	23 34	.....	.. ..	....
	September 27, B.												
37	τ Pegasi...........	11	16 9.56	— 0.36	—20.67	15 40 11.58	40.010	+ 16.2	10.9	23 15	.....	.. ..	....
38	θ Piscium	11	23 21.97	— 0.32	—20.65	33 0 12.58	44.498	+ 37.5	10.6	23 23	.....	.. ..	....
39	λ Andromedæ	11	33 8.99	— 0.43	—20.52	352 56 11.12	43.296	— 7.1	11.2	23 32	.....	.. ..	....
40	B. D. + 46° 4226 ..	11	55 8.21	— 0.43	**—20.59**	351 48 11.28	44.271	— 8.2	**11.0**	23 54 47.19	.....	+47 3 28.7	....
41	22 Andromedæ	11	5 36.64	— 0.43	—20.59	353 20	......	....	....	0 5	.....	.. ..	....
42	Moon I, N	11	8 20.58	— 0.33	**—20.58**	34 26 12.70	46.703	+ 39.7	**11.0**	0 7 59.67	+68.94	+ 4 20 38.6	....
43	σ Andromedæ	11	13 35.08	— 0.40	—20.54	2 36 10.52	46.426	+ 2.7	10.6	0 13	.....	.. ..	....
44	44 Piscium	11	20 44.91	— 0.31	—20.67	37 26 13.15	46.188	+ 44.2	10.9	0 20	.....	.. ..	....
45	π Andromedæ	11	32 1.22	— 0.39	—20.47	5 40 9.58	45.571	+ 5.8	12.0	0 31	.....	.. ..	....
	September 29, Y.												
46	α Leonis	11	3 29.10	— 0.34.	—20.67	26 24 12.32	44.615	+ 27.7	15.0	10 3	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
24 20 35	29.97	68.8	68.3
21 36	29.97	68.2	67.9
23 18	29.97	66.0	66.0
0 1	29.97	65.4	65.4
1 31	29.975	66.6	66.5
25 22 3	30.20	55.9	54.1
22 35	30.20	54.9	53.4
9 27	30.275	59.8	58.7
10 8	30.275	62.2	60.7
26 12 13	30.28	65.0	64.3
13 32	30.25	65.9	64.8
14 48	30.22	65.2	63.8
15 42	30.21	66.5	65.9
22 52	30.23	57.3	56.0
23 43	30.23	55.7	54.3
27 23 21	30.12	59.2	57.8
0 0	30.12	58.5	57.2
0 46	30.12	58.2	57.8
29 9 57	29.88	70.9	70.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 34, 42.	Z. D. thread A used.
3, 16, 42.	Bisections at II, III, IV, V, VI.
6, 37, 38, 44.	Bisections at VI, VII.
11.	Bisections at c_5, c_4, c_3, c_2, c_1.
13.	Bisections at c_1, c_2, c_3, c_4, c_5.
15.	Bisections at I, II.
27.	Bisection at VI.
34.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+44 26.9	+15 53.2	...	+60 20.1
16	+41 57.0	+16 8.2	...	+58 5.2
25	+ 5.4	....	— 0.2	+ 5.2
34	+38 36.8	+16 21.1	...	+54 57.9
42	+34 6.9	—16 30.7	...	+17 36.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ^1 Leonis	11	14 54.11	− 0.40	−20.76	18 30 10.30	46.926	+ 18.7	15.0	10 14	.....	.. ..	....
2	δ Leonis	11	9 13.55	− 0.42	−20.70	17 46 10.00	48.725	+ 17.8	14.7	11 8	.....	.. ..	....
3	β Leonis	11	44 23.32	− 0.38	−20.64	23 44 11.88	43.331	+ 24.4	15.5	11 44	.....	.. ..	....
	September 30, Y.												
4	Sun I, N	11	24 19.45	− 0.25	**−20.68**	41 14 13.08	44.212	+ 48.5	**15.1**	12 23 58.52	+64.23	− 2 26 37.5	....
5	Sun II, S........	11	26 27.90	− 0.25	**−20.68**	41 46 12.72	44.113	+ 49.4	**15.1**	12 26 6.97	−64.22	− 2 58 38.5	....
6	α Virginis	11	20 21.43	− 0.18	−20.72	49 28 11.28	47.938	+1 4.5	14.7	13 20	.....	.. ..	....
7	η Bootis	11	50 20.79	− 0.41	−20.67	19 58 11.12	42.872	+ 20.0	15.8	13 49	.....	.. ..	....
8	α Bootis	5	11 31.10	− 0.42	−20.55	19 8 11.30	48.355	+ 19.1	14.9	14 11	.....	.. ..	....
9	α^2 Libræ	11	45 47.15	− 0.12	−20.76	54 28 10.00	44.538	+1 16.8	14.7	14 45	.....	.. ..	....
10	Venus I, N......	6	52 36.25	− 0.10	**−20.66**	56 28 11.25	43.080	+1 22.8	**15.1**	14 52 15.49	+ 0.50	−17 37 34.5	....
11	Venus II, S	5	52 37.04	− 0.10	**−20.66**	56 28 11.25	43.785	+1 22.8	**15.1**	14 52 16.28	− 0.29	−17 37 48.2	....
12	β Libræ	11	12 3.77	− 0.18	−20.62	47 52 11.88	42.768	+1 0.7	15.6	15 11	.....	.. ..	....
13	σ Arietis	11	46 26.81	− 0.27	−20.60	24 10 12.62	45.054	+ 25.6	15.1	2 46	.....	.. ..	....
14	ε Arietis	11	53 58.40	− 0.32	−20.55	17 54 11.85	44.884	+ 18.5	15.0	2 53	.....	.. ..	....
15	Moon II, N......	11	13 57.65	− 0.30	**−20.56**	21 36 11.52	43.967	+ 22.7	**15.2**	3 13 36.79	−72.23	+17 11 53.4	....
16	f Tauri	11	25 49.43	− 0.26	−20.55	26 14 12.08	47.011	+ 28.2	15.6	3 25	.....	.. ..	....
17	η Tauri	11	42 1.30	− 0.34	−20.55	15 4 10.75	41.402	+ 15.4	15.0	3 41	.....	.. ..	....
	September 30, B.												
18	o Leonis	11	36 14.96	− 0.19	−20.49	28 30 12.78	45.978	+ 30.9	15.7	9 35	.....	.. ..	....
19	ε Leonis	11	40 36.96	0.29	−20.44	14 38 12.82	43.076	+ 14.9	14.8	9 40	.....	.. ..	....
20	μ Leonis	11	47 31.08	− 0.30	−20.54	12 22 11.02	47.772	+ 12.5	15.4	9 47	.....	.. ..	....
21	α Leonis	11	3 28.80	− 0.20	−20.49	26 24 12.55	44.579	+ 28.2	14.9	10 3	.....	.. ..	....
	October 1, B.												
22	Sun I, S.........	11	27 56.10	− 0.13	**−20.55**	42 8 12.15	48.345	+ 50.9	**14.9**	12 27 35.42	+64.38	− 3 21 58.5	....
23	Sun II, N........	11	30 4.86	− 0.13	**−20.55**	41 36 11.48	48.227	+ 50.0	**14.9**	12 29 44.18	−64.38	− 2 49 57.0	....
24	α Ursæ Minoris S. P.	8	24 45.98	+11.89	[−19.15]	307 40 9.98	43.001	−1 12.2	[14.0]	1 24	.....	.. ..	....
25	Mercury I, C	11	52 15.42	− 0.08	**−20.58**	52 16 11.80	47.966	+1 12.2	**14.7**	13 51 54.76	+ 0.20	−13 26 58.7	....
26	α Bootis	11	11 30.91	− 0.28	20.51	19 8 11.95	48.292	+ 19.4	14.4	14 11	.....	.. ..	....
27	ε Bootis	11	41 1.95	− 0.32	−20.59	11 22 11.40	43.410	+ 11.3	14.7	14 40	.....	.. ..	....
28	α^2 Libræ	11	45 46.98	− 0.07	−20.64	54 28 11.95	44.375	+1 17.9	14.7	14 45	.....	.. ..	....
29	Venus I, C......	11	57 17.71	− 0.05	**−20.61**	56 52 11.28	42.570	+1 25.2	**14.6**	14 56 57.05	+ 0.53	−18 1 28.3	....
30	β Libræ	11	12 3.74	− 0.11	−20.67	47 52 11.58	42.694	+1 1.5	14.7	15 11	.....	.. ..	....
31	α Ursæ Minoris	7	25 9.99	−12.08	[−18.95]	310 6 10.25	42.910	−1 7.0	[14.0]	1 24	.....	.. ..	....
32	β Arietis	11	49 35.82	− 0.29	[−20.73]	18 32 12.50	42.006	+ 19.0	[14.3]	1 49	.....	.. ..	....
33	γ Trianguli	11	11 51.93	− 0.37	[−20.87]	5 28 9.80	43.311	+ 5.5	[13.8]	2 11	.....	.. ..	....
	October 2, L.												
34	β Orionis..........	..	.. ..	....	.....	47 10 13.25	41.545	+1 1.7	13.1	5 10	.....	.. ..	....
35	τ Orionis..........	..	.. ..	....	.....	45 48 13.00	42.075	+ 58.9	12.7	5 13	.....	.. ..	....
36	Moon N	..	.. ..	....	.....	18 54 11.30	41.831	+ 19.6	**13.2**	5 20	.....	+19 57 50.4	....
37	χ Aurigæ..........	..	.. ..	....	.....	6 44 10.90	45.002	+ 6.8	13.3	5 27	.....	.. ..	....
38	ε Orionis..........	..	.. ..	....	.....	40 6 12.50	45.472	+ 48.3	13.6	5 32	.....	.. ..	....
	October 2, Br.												
39	μ Leonis	11	47 31.77	− 0.20	−21.29	12 22 11.10	47.610	+ 12.5	12.7	9 47	.....	.. ..	....
40	α Leonis	11	3 29.59	− 0.14	−21.30	26 24 12.42	44.452	+ 28.2	12.8	10 3	.....	.. ..	....
41	γ^1 Leonis	11	14 54.48	− 0.18	−21.29	18 30 12.30	46.704	+ 19.0	12.6	10 14	.....	.. ..	....
42	δ Leonis	11	9 13.88	− 0.20	−21.21	17 46 12.20	48.529	+ 18.2	13.1	11 8	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
29 10 58	29.88	73.8	73.6
11 38	29.88	75.1	74.8
30 12 28	29.89	75.7	75.5
13 15	29.885	77.1	76.4
13 57	29.88	79.0	77.8
14 58	29.875	78.8	78.2
15 17	29.875	78.7	78.1
2 44	29.94	62.8	61.3
3 47	29.94	60.7	59.0
9 30	30.015	65.5	63.2
10 7	30.02	66.8	64.2
1 12 31	29.98	70.1	69.0
13 16	29.955	71.5	69.7
13 57	29.945	73.0	71.0
14 48	29.92	73.2	72.0
15 17	29.915	73.2	72.2
1 8	29.76	62.3	60.3
2 19	29.725	61.5	60.5
2 5 5	29.53	54.8	51.8
5 37	29.54	54.0	51.0
9 36	29.58	57.8	56.3
10 19	29.58	59.1	57.3
11 13	29.58	61.1	59.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 5, 15, 22, 23.	Z. D. thread A used.
4, 22.	Bisections at I, II, III.
5, 23.	Bisections at V, VI, VII.
8, 10.	Bisections at I, VII.
11.	Bisections at II, VI.
15, 36.	Bisections at II, III, IV, V, VI.
24.	Bisections at c_5, c_4, c_3, c_2, c_1.
29, 39, 40.	Bisections at II, VI, VII.
31.	Bisections at c_1, c_2, c_3, c_4, c_5.
35.	Bisections at I, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 5.8	−16 0.4	...	−15 54.6
5	+ 5.9	+16 0.5	...	+16 6.4
10	+ 6.4	− 7.0	...	− 0.6
11	+ 6.4	+ 7.0	− 0.3	+ 13.1
15	+22 10.5	−16 30.8	...	+ 5 39.7
22	+ 5.9	+16 0.7	...	+16 6.6
23	+ 5.9	−16 0.8	...	−15 54.9
25	+ 5.9	....	− 0.3	+ 5.6
29	+ 6.5	....	− 0.2	+ 6.3
36	+19 3.3	−16 11.5	...	+ 2 51.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	October 3, Br.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N.........	11	35 11.78	− 0.10	**−21.26**	42 24 11.95	43.530	+ 51.5	**13.1**	12 34 50.42	+64.40	− 3 36 28.3	....
2	Sun II, S........	11	37 20.57	− 0.10	**−21.26**	42 56 11.88	43.502	+ 52.4	**13.1**	12 36 59.21	−64.39	− 4 8 31.0	....
3	η Bootis...........	11	50 21.19	− 0.23	−21.26	19 58 12.28	42.695	+ 20.5	13.6	13 49	.....	.. ..	....
4	α Bootis.....	11	11 31.63	− 0.23	−21.29	19 8 12.02	48.228	+ 19.6	13.1	14 11	.....	.. ..	....
5	ε Bootis...........	11	41 2.49	− 0.28	−21.19	11 22 11.12	43.255	+ 11.4	13.0	14 40	.....	.. ..	....
6	δ Bootis...........	5	11 53.29	− 0.32	−21.26	5 10 9.82	45.062	+ 5.2	13.7	15 11	.....	.. ..	....
7	θ Aurigæ..........	..	.. ..	....	.....	1 38 10.25	47.805	+ 1.8	11.5	5 53	.....	.. ..	....
8	η Geminorum	..	.. ..	....	.....	16 18 11.42	47.518	+ 17.3	11.7	6 9	.....	.. ..	....
9	Moon S...........	..	.. ..	....	.....	20 6 12.20	44.553	+ 21.7	**11.8**	6 21	.....	+18 41 39.0	....
10	γ Geminorum	..	.. ..	....	.....	22 22 12.18	44.324	+ 24.3	12.0	6 32	.....	.. ..	....
11	ε Geminorum	..	.. ..	....	.....	13 38 11.90	42.778	+ 14.3	12.2	6 38	.....	.. ..	....
12	θ Geminorum	..	.. ..	....	.....	4 46 10.70	46.315	+ 5.0	11.6	6 47	.....	.. ..	....
	October 3, B.												
13	α Leonis	11	3 29.35	− 0.11	−21.07	26 24 12.75	44.377	+ 28.8	12.2	10 3	.....	.. ..	....
14	γ^1 Leonis	11	14 54.24	− 0.15	−21.06	18 30 11.88	46.670	+ 19.4	11.8	10 14	.....	.. ..	....
15	ρ Leonis	11	27 59.19	− 0.11	−21.09	29 2 12.52	44.571	+ 32.1	12.8	10 27	.....	.. ..	....
16	δ Leonis	11	9 13.67	− 0.17	−21.02	17 46 12.68	48.432	+ 18.6	11.9	11 8	.....	.. ..	....
	October 4, B.												
17	Sun I, N...	11	38 49.45	− 0.07	**−21.03**	42 46 13.40	47.095	+ 53.4	**12.5**	12 38 28.35	+64.54	− 3 59 40.6	....
18	Sun II, S........	11	40 58.52	− 0.07	**−21.03**	43 18 13.70	47.000	+ 54.4	**12.5**	12 40 37.42	−64.53	− 4 31 42.5	....
19	Mercury I, C.....	11	6 40.41	− 0.03	**−21.00**	53 56 12.90	43.986	+1 18.6	**12.5**	14 6 19.38	+ 0.21	−15 5 52.0	....
20	α Bootis...........	11	11 31.25	− 0.20	−20.95	19 8 12.30	48.136	+ 19.9	11.7	14 11	.....	.. ..	....
21	ε Bootis...........	11	41 2.22	− 0.25	−20.96	11 22 11.60	43.331	+ 11.6	13.2	14 40	.....	.. ..	....
22	ε Coronæ Borealis..	11	53 51.92	− 0.25	−20.99	11 42 11.08	41.729	+ 11.9	12.8	15 53	.....	.. ..	....
23	β^1 Scorpii..........	11	0 4.42	− 0.01	−21.05	58 22 12.42	43.970	+1 32.9	13.6	15 59	.....	.. ..	....
24	ζ Geminorum	11	58 38.46	− 0.26	−20.47	18 8 12.82	45.002	+ 19.5	11.6	6 58	.....	.. ..	....
25	δ Geminorum	11	14 36.75	− 0.27	−20.41	16 40 12.22	48.511	+ 17.8	11.7	7 14	.....	.. ..	....
26	Moon II, S.......	11	22 2.65	− 0.25	**−20.46**	22 2 12.62	46.280	+ 24.1	**11.9**	7 21 41.94	−68.79	+16 45 3.2	....
27	α^2 Geminorum	11	28 41.29	− 0.33	−20.43	6 44 10.95	47.915	+ 7.1	12.3	7 28	.....	.. ..	....
28	α Canis Minoris....	11	34 30.83	− 0.18	−20.54	33 22 13.18	44.602	+ 39.1	11.9	7 34	.....	.. ..	....
	October 4, L.												
29	α Leonis	11	3 29.03	− 0.11	−20.73	26 24 12.25	44.270	+ 29.1	10.9	10 3	.....	.. ..	....
30	γ^1 Leonis	10	14 53.92	− 0.14	−20.73	18 30 12.95	46.512	+ 19.7	10.0	10 14	.....	.. ..	....
31	β Leonis Minoris...	11	22 32.46	− 0.22	−20.63	1 38 10.38	46.780	+ 1.7	10.5	10 22	.....	.. ..	....
32	δ Leonis	11	9 13.37	− 0.15	−20.72	17 46 12.75	48.336	+ 18.7	10.0	11 8	.....	.. ..	....
	October 5, L.												
33	Sun I, N.........	11	42 27.43	− 0.07	**−20.60**	43 14 12.58	42.007	+ 54.4	**10.2**	12 42 6.76	+64.50	− 4 22 50.9	....
34	Sun II, S........	11	44 36.43	− 0.07	**−20.60**	43 46 12.18	41.980	+ 55.4	**10.2**	12 44 15.76	−64.50	− 4 54 53.2	....
35	α Virginis.........	8	20 21.16	− 0.06	−20.57	49 28 14.00	47.270	+1 7.7	9.8	13 20	.....	.. ..	....
36	η Bootis...........	11	50 20.36	− 0.20	−20.46	19 58 12.22	42.535	+ 21.0	9.9	13 49	.....	.. ..	....
37	Mercury C, C.....	11	11 20.23	− 0.05	**−20.53**	54 26 14.28	46.898	+1 20.6	**10.2**	14 10 59.65	+ 0.05	−15 36 54.7	....
38	ε Bootis...........	11	41 1.75	− 0.26	−20.49	11 22 11.02	43.205	+ 11.6	10.0	14 40	.....	.. ..	....
39	β Libræ...........	11	12 3.59	− 0.10	−20.57	47 52	.... ..	....	....	15 11	.....	.. ..	....
40	Venus I, N	6	16 14.67	− 0.06	**−20.50**	58 22 11.48	44.345	+1 33.3	**10.2**	15 15 54.11	+ 0.59	−19 32 14.5	....
41	Venus II, S......	5	16 15.58	− 0.06	**−20.50**	58 22 11.48	45.150	+1 33.3	**10.2**	15 15 55.02	− 0.32	−19 32 29.8	....
42	α Serpentis........	11	39 46.09	− 0.18	−20.48	32 6 13.35	45.645	+ 36.2	10.4	15 39	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
3	12	39	29.57	61.8	61.0
	13	54	29.56	62.0	60.6
	14	16	29.56	63.0	60.7
	15	14	29.565	62.0	60.0
	5	46	29.74	44.9	42.1
	6	14	29.745	44.4	41.0
	6	43	29.74	43.8	41.0
	6	59	29.75	44.0	41.6
	9	58	29.83	51.6	50.8
	10	32	29.84	53.1	52.1
	11	12	29.845	54.4	53.1
4	12	41	29.85	56.0	54.4
	14	2	29.84	57.3	56.5
	14	48	29.84	58.0	56.5
	16	4	29.855	58.0	56.0
	6	52	30.015	42.5	42.0
	7	39	30.025	43.8	42.7
	10	5	30.07	49.9	48.9
	10	32	30.08	51.1	50.1
	11	11	30.07	53.3	52.3
5	12	44	30.05	55.8	54.7
	13	22	30.04	56.1	54.9
	13	51	......	....	55.0
	14	13	30.02	57.8	56.1
	14	43	......	....	57.0
	15	18	30.02	58.8	57.0
	15	41	30.02	58.1	57.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 2, 9, 17, 18, 26.	Z. D. thread A used.
1, 17, 33.	Bisections at I, II, III.
2, 18, 34.	Bisections at V, VI, VII.
5, 7, 23, 29, 35, 37.	Bisections at VI, VII.
6.	Bisections at I, II.
9, 26.	Bisections at II, III, IV, V, VI.
12, 13.	Bisections at II, VI, VII.
36.	Bisections at I, II, VI.
40.	Bisections at II, VI.
41.	Bisections at I, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 5.9	−16 1.3	...	−15 55.4
2	+ 6.0	+16 1.3	...	+16 7.3
9	+20 2.3	+15 59.2	...	+36 1.5
17	+ 6.0	−16 0.9	...	−15 54.9
18	+ 6.1	+16 0.9	...	+16 7.0
19	+ 6.3	....	− 0.3	+ 6.0
26	+21 36.5	+15 46.9	...	+37 23.4
33	+ 6.0	−16 1.1	...	−15 55.1
34	+ 6.1	+16 1.1	...	+16 7.2
37	+ 6.4	....	− 0.3	+ 6.1
40	+ 6.8	− 7.8	...	− 1.0
41	+ 6.8	+ 7.8	− 0.3	+ 14.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	15 Argus	11	3 41.95	+ 0.10	—20. 16	62 50 12.42	46.026	+1 54.3	10. 8	8 3	.....	.. ..	....
2	ζ¹ Cancri	11	6 55.23	— 0.12	—20. 04	20 54 11.88	45.492	+ 22.5	10. 5	8 6	.....	.. ..	....
3	β Cancri	11	11 31.76	— 0.08	—20. 07	29 22 13.00	42.699	+ 33.1	10. 7	8 11	.....	.. ..	....
4	Moon II, S.......	11	18 3.79	— 0.10	**—20.08**	25 0 12.98	47.701	+ 27.4	**10.5**	8 17 43.61	—66.83	+13 49 45.7	....
5	30 Monocerotis	10	21 5.47	— 0.01	—20. 05	42 26 12.55	42.838	+ 53.6	10. 1	8 20	.....	.. ..	....
	October 6, Br.												
6	ε Hydræ	11	41 54.14	— 0.09	—19. 39	32 4 12.18	44.205	+ 37.3	11. 1	8 41	.....	.. ..	....
7	Moon II, S.......	11	11 8.95	— 0.11	**—19.37**	28 36 12.68	44.103	+ 32.5	**11.3**	9 10 49.47	—65.02	+10 11 35.9	....
8	α Lyncis	11	15 23.74	— 0.25	—19. 33	4 2 10.60	47.235	+ 4.3	10. 8	9 15	.....	.. ..	....
9	α Hydræ	11	23 5.03	— 0.01	—19. 41	47 4 12.45	44.856	+1 3.8	11. 3	9 22	.....	.. ..	....
10	ο Leonis	10	36 13.94	— 0.11	—19. 42	28 30 12.88	45.744	+ 32.2	12. 0	9 35	.....	.. ..	....
11	ε Leonis	11	40 35.85	— 0.18	—19. 30	14 38 11.78	42.954	+ 15.5	11. 0	9 40	.....	.. ..	....
	October 7, Br.												
12	Sun I, S	10	49 43.78	— 0.03	**—19.25**	44 28 13.12	44.838	+ 57.5	**11.3**	12 49 24.50	+64.69	— 5 41 2.4	....
13	Sun II, N..........	11	51 53.16	— 0.03	**—19.25**	43 56 12.28	44.535	+ 56.5	**11.3**	12 51 33.88	—64.69	— 5 8 57.1	....
14	α Bootis............	11	11 29.41	— 0.16	—19. 16	19 8 13.48	48.069	+ 20.2	11. 4	14 11	.....	.. ..	....
15	Mercury C, C	11	20 24.69	+ 0.03	**—19.20**	55 26 12.00	43.657	+1 24.1	**11.3**	14 20 5.52	+ 0.06	—16 35 52.0	....
16	ε Bootis............	11	41 0.32	— 0.20	—19. 14	11 22 11.85	43.236	+ 11.7	11. 1	14 40	.....	.. ..	....
17	β Libræ............	8	12 2.10	— 0.01	—19. 19	47 52 12.50	42.331	+1 4.0	11. 3	15 11	.....	.. ..	....
18	Venus I, C........	6	25 47.95	+ 0.05	**—19.16**	59 4 12.25	46.578	+1 36.5	**11.3**	15 25 28.84	+ 0.69	—20 15 0.1	....
19	Venus II	5	25 49.00	+ 0.05	**—19.16**	... .	......	....	....	15 25 29.89	— 0.36	.. ..	....
20	α Serpentis	10	39 44.71	— 0.09	—19. 21	32 6 13.65	45.790	+ 36.4	11. 7	15 39	.....	.. ..	....
21	θ Herculis..........	11	53 12.33	— 0.34	[—18. 94]	1 36 10.08	41.655	+ 1.7	[11. 8]	17 52	.....	.. ..	....
22	δ Ursæ Minoris....	8	4 11.39	— 3.72	[—19. 11]	312 16 10.95	41.766	—1 3.6	[11. 3]	18 3	.....	.. ..	....
23	β Lyræ	11	46 46.92	— 0.32	[—18. 95]	5 36 10.45	44.180	+ 5.8	[11. 6]	18 46	.....	.. ..	....
24	51 H. Cephei s. p....	8	54 56.54	+ 4.00	[—18. 48]	306 4 11.05	45.746	—1 19.7	[11. 4]	6 54	.....	.. ..	....
	October 7, B.												
25	ο Leonis	11	36 12.94	— 0.10	—18. 41	28 30 12.50	45.822	+ 32.0	12. 9	9 35	.....	.. ..	....
26	ε Leonis	11	40 34.92	— 0.16	—18. 37	14 38 11.38	43.031	+ 15.4	11. 8	9 40	.....	.. ..	....
27	Moon II..........	11	1 47.41	— 0.08	**—18.41**	32 30	......	....	....	10 1 28.92	—63.56	.. ..	....
28	α Leonis	11	3 26.80	— 0.10	—18. 45	26 24 13.90	44.390	+ 29.1	12. 6	10 3	.....	.. ..	....
29	γ¹ Leonis	11	14 51.65	— 0.14	—18. 40	18 30 11.30	46.712	+ 19.6	11. 5	10 14	.....	.. ..	....
	October 8, B.												
30	Sun I, N..........	11	53 22.57	— 0.07	**—18.38**	44 18 13.38	47.668	+ 56.1	**12.7**	12 53 4.12	+64.69	— 5 31 54.5	....
31	Sun II, S	11	55 31.94	— 0.07	**—18.38**	44 50 3.70	48.275	+ 57.2	**12.7**	12 55 13.49	—64.68	— 6 3 59.6	....
32	Mercury I, C.....	11	24 48.87	— 0.02	**—18.36**	55 54 11.75	43.064	+1 24.2	**13.0**	14 24 30.09	+ 0.22	—17 3 38.3	....
33	α² Libræ..........	11	45 44.61	— 0.04	—18. 36	54 28 12.75	44.116	+1 19.8	12. 7	14 45	.....	.. ..	....
34	β Libræ..........	11	12 1.45	— 0.08	—18. 48	47 52 11.90	42.525	+1 3.0	13. 4	15 11	.....	.. ..	....
35	Venus I, C.....	11	30 36.08	— 0.01	**—18.35**	59 26 12.00	42.252	+1 36.3	**13.2**	15 30 17.72	+ 0.56	—20 35 34.8	....
36	α Serpentis..........	11	39 43.83	— 0.18	—18. 25	32 6 12.78	45.831	+ 35.8	12. 8	15 39	.. ..	.. ..	....
37	ε Serpentis..........	11	46 13.28	— 0.16	—18. 30	34 4 12.75	44.714	+ 38.5	13. 7	15 45	.....	.. ..	....
38	θ Herculis..........	11	53 11.58	— 0.33	[—18. 22]	1 36 9.65	41.585	+ 1.6	[11. 7]	17 52	.....	.. ..	....
39	δ Ursæ Minoris	8	4 9.45	— 4.07	[—17. 23]	312 16 11.55	41.675	—1 2.7	[11. 0]	18 3	.....	.. ..	....
40	β Lyræ	11	46 46.25	— 0.30	[—18. 32]	5 36 10.12	44.242	+ 5.7	[12. 4]	18 46	.....	.. ..	....
41	51 H. Cephei s. p....	9	54 56.57	+ 4.48	[—18. 47]	306 4 10.50	45.688	—1 18.5	[10. 9]	6 54	.....	.. ..	....
	October 10, B.												
42	δ Leonis	11	9 10.02	— 0.25	—17. 17	17 46 11.75	48.670	+ 18.3	14. 1	11 8	.....	.. ..	....
43	ν Ursæ Majoris	9	13 27.24	— 0.32	—17. 21	5 14 9.18	43.045	+ 5.3	14. 6	11 13	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
5 8 1	29.98	46.0	46.0
8 27	29.99	48.2	48.1
6 8 43	30.30	46.3	45.0
9 27	30.32	48.8	47.0
9 44	30.325	49.8	47.8
7 12 52	30.320	55.8	54.2
14 6	30.285	58.1	56.0
14 23	30.285	59.9	57.5
14 45	30.285	60.2	57.9
15 46	30.28	59.9	58.8
17 46	30.27	58.7	58.0
18 9	30.27	57.9	57.0
19 1	30.26	54.6	53.2
9 30	30.22	48.8	48.5
10 18	30.225	53.6	53.0
8 12 56	30.20	61.2	61.8
14 20	30.17	63.5	63.8
14 48	30.165	64.8	64.0
15 14	30.15	64.2	64.0
15 48	30.14	64.2	64.4
17 54	30.12	63.8	62.0
18 56	30.12	60.0	59.0
10 11 3	30.065	64.6	63.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 7.	Bisections at II, III, IV, V, VI.
7, 12, 13, 30, 31.	Z. D. thread A used.
8, 15.	Bisections at II, VI, VII.
12.	Bisections at I, II, III.
13, 31.	Bisections at V, VI, VII.
20.	Bisections at I, II.
22, 39.	Bisections at c_1, c_2, c_3, c_4, c_5.
24, 41.	Bisections at c_5, c_4, c_3, c_2, c_1.
30.	Bisections at II, III.
38.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+24 0.4	+15 35.2	...	+39 35.6
7	+26 55.6	+15 24.5	...	+42 20.1
12	+ 6.2	+16 2.6	...	+16 8.8
13	+ 6.1	—16 2.6	...	—15 56.5
15	+ 6.7	....	— 0.3	+ 6.4
18	+ 6.9	....	— 0.2	+ 6.7
30	+ 6.2	—16 2.5	...	—15 56.3
31	+ 6.2	+16 2.6	...	+16 8.8
32	+ 6.8	....	— 0.4	+ 6.4
35	+ 7.0	....	— 0.1	+ 6.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Leonis	11	44 19.85	− 0.24	−17.19	23 44 10.40	43.441	+ 24.9	14.8	11 44	.....	.. ..	....
	October 11, B.												
2	Sun II, S........	11	6 32.37	− 0.16	**−17.14**	45 58 11.90	49.380	+ 58.1	**15.1**	13 6 15.07	−64.91	− 7 12 27.4	....
3	α^2 Libræ..........	11	45 43.51	− 0.12	−17.19	54 28 11.30	44.434	+1 18.1	15.7	14 45	.....	.. ..	....
4	β Libræ..........	11	12 0.06	− 0.17	−17.02	47 52 11.25	42.760	+1 1.6	15.8	15 11	.....	.. ..	....
5	Venus I, C.......	11	45 7.63	− 0.08	**−17.07**	60 24 11.00	44.562	+1 37.9	**15.9**	15 44 50.48	+ 0.57	−21 34 17.0	....
6	δ Scorpii	11	54 48.42	− 0.08	−17.07	61 10 11.68	44.862	+1 41.0	15.5	15 54	.....	.. ..	....
7	β^1 Scorpii	11	0 0.43	− 0.10	−17.05	58 22 9.75	44.465	+1 30.3	16.2	15 59	.....	.. ..	....
	October 14, B.												
8	δ Leonis	11	9 4.31	− 0.24	−11.40	17 46 11.62	48.651	+ 18.7	13.1	11 8	.....	.. ..	....
9	β Leonis	7	44 14.09	− 0.21	−11.40	23 44 11.50	43.185	+ 25.5	12.8	11 44	.....	.. ..	....
10	γ Corvi	9	10 56.35	− 0.06	−11.48	55 50 11.32	43.472	+1 25.0	15.1	12 10	.....	.. ..	....
	October 15, B.												
11	Sun I, S.........	11	19 5.20	− 0.11	**−11.26**	47 28 12.52	49.090	+1 2.9	**13.9**	13 18 53.83	+65.24	− 8 42 26.1	....
12	Sun II, N........	11	21 15.68	− 0.11	**−11.26**	46 56 13.35	48.443	+1 1.8	**13.9**	13 21 4.31	−65.24	− 8 10 15.8	....
13	Mercury I, C	11	51 54.75	− 0.05	**−11.10**	58 30 11.05	46.222	+1 33.4	**13.9**	14 51 43.60	+ 0.25	−19 40 46.4	....
14	β Libræ..........	11	11 54.05	− 0.10	−11.10	47 52 11.25	42.540	+1 3.3	15.1	15 11	.....	.. ..	....
15	α Coronæ Borealis .	11	30 42.25	− 0.27	−11.02	11 48 10.75	45.138	+ 12.0	13.5	15 30	.....	.. ..	....
16	Moon I..........	11	39 6.05	− 0.05	**−11.02**	57 54	......	....	....	15 38 54.98	+64.30	.. ..	....
17	δ Scorpii	11	54 42.34	− 0.04	−11.07	61 10 11.60	44.642	+1 43.8	14.2	15 54	.....	.. ..	....
18	Venus I, C.......	11	4 38.61	− 0.03	**−11.01**	61 34 12.05	46.249	+1 45.4	**13.9**	16 4 27.57	+ 0.60	−22 44 59.9	....
19	δ Ophiuchi........	11	9 22.61	− 0.13	−10.88	42 16 12.68	46.869	+ 52.0	13.6	16 9	.....	.. ..	....
20	θ Herculis	11	53 3.59	− 0.39	[−10.34]	1 34 9.20	48.082	+ 1.7	[13.4]	17 52	.....	.. ..	....
21	δ Ursæ Minoris....	9	3 58.61	− 3.58	[− 9.57]	312 14 10.12	48.108	−1 2.8	[12.3]	18 3	.....	.. ..	....
22	β Lyræ............	11	46 38.11	− 0.36	[−10.28]	5 36 8.55	44.292	+ 5.7	[13.4]	18 46	.....	.. ..	....
23	51 H. Cephei S. P...	8	54 54.12	+ 3.74	[−11.86]	306 4 10.55	45.770	−1 18.6	[12.5]	6 54	.....	.. ..	....
	October 15, L.												
24	46 Leonis Minoris ..	11	47 56.47	− 0.36	− 7.47	4 6 8.62	46.682	+ 4.2	10.9	10 47	.....	.. ..	....
25	δ Leonis	11	9 0.40	− 0.28	− 7.43	17 46 12.48	48.479	+ 18.6	10.4	11 8	.....	.. ..	....
26	ν Ursæ Majoris	11	13 17.58	− 0.35	− 7.42	5 14 10.42	42.872	+ 5.3	11.3	11 13	.....	.. ..	....
27	β Leonis	11	44 10.29	− 0.25	− 7.55	23 44 13.88	43.100	+ 25.3	11.4	11 44	.....	.. ..	....
	October 16, L.												
28	Sun I, S.........	10	22 44.65	− 0.14	**− 7.20**	47 54 12.42	47.255	+1 3.1	**11.8**	13 22 37.31	+65.34	− 9 4 38.7	....
29	Sun II, N	11	24 55.32	− 0.14	**− 7.20**	47 22 12.32	46.637	+1 1.9	**11.8**	13 24 47.98	−65.33	− 8 32 27.5	....
30	ε Bootis..........	9	40 48.27	− 0.32	− 7.03	11 22 11.08	43.454	+ 11.4	12.4	14 40	.....	.. ..	....
31	Mercury I, C.....	11	55 0.39	− 0.08	**− 7.02**	58 46 11.75	46.320	+1 33.2	**12.4**	14 54 53.29	+ 0.26	−19 56 50.3	....
32	α Serpentis........	11	39 32.49	− 0.21	− 6.95	32 6 13.18	45.900	+ 35.5	13.6	15 39	.....	.. ..	....
33	δ Scorpii..........	11	54 38.25	− 0.06	− 6.97	61 10 11.38	44.655	+1 42.3	12.9	15 54	.....	.. ..	....
34	Venus I, C	6	9 31.25	− 0.06	**− 6.86**	61 50 12.42	47.011	+1 45.2	**12.9**	16 9 24.33	+ 0.61	−23 1 15.7	....
35	Venus II........	5	9 32.14	− 0.06	**− 6.86**	... .	......	....	....	16 9 25.22	− 0.28	.. ..	....
36	α Scorpii..........	10	23 29.78	− 0.04	− 6.85	65 2 11.02	44.699	+2 0.8	12.2	16 23	.....	.. ..	....
37	Moon I..........	11	30 22.58	− 0.08	**− 6.82**	59 12	......	....	....	16 30 15.68	+64.99	.. ..	....
38	κ Ophiuchi........	11	53 7.81	− 0.22	− 6.67	29 18 12.02	47.244	+ 31.8	13.0	16 53	.....	.. ..	....
	October 16, Br.												
39	46 Leonis Minoris ..	11	47 51.93	− 0.33	− 2.94	4 6 10.28	46.656	+ 4.2	11.8	10 47	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
10	11	50	30.06	68.2	67.0
11	13	7	30.04	71.1	70.8
	14	34	30.015	72.5	71.6
	15	6	30.00	73.5	73.0
	16	3	29.99	73.6	72.8
14	11	3	30.020	53.8	53.0
	11	48	30.03	55.4	54.8
	12	40	30.025	57.0	56.0
15	13	21	30.02	58.1	57.0
	14	40	29.99	59.5	58.5
	15	42	29.99	61.0	59.0
	16	14	29.985	61.0	59.8
	17	48	29.985	61.0	59.0
	18	38	29.98	58.5	57.3
	19	2	29.98	57.0	55.5
	10	48	30.00	54.8	54.0
	11	9	.....	....	56.1
	11	44	29.99	58.4	57.8
16	13	25	29.96	61.8	61.2
	14	41	29.93	65.0	63.4
	14	55	.....	...	64.0
	15	40	29.91	66.0	64.8
	15	55	.....	....	64.9
	16	10	.....	....	64.8
	16	23	.....	....	64.7
	16	53	29.89	65.1	64.3
	10	48	29.64	53.8	52.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 11, 12. Z. D. thread A used.
2, 12, 29. Bisections at V, VI, VII.
9, 14, 22. Bisections at VI, VII.
10. Bisections at I, II.
11. Bisections at I, II, III.
21. Bisections at c_1, c_2, c_3, c_4, c_5.
23. Bisections at c_5, c_4, c_3, c_2, c_1.
28. Bisections at II, III.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 6.4	+16 3.9	...	+16 10.3
5	+ 7.2	....	− 0.1	+ 7.1
11	+ 6.5	+16 5.1	...	+16 11.6
12	+ 6.5	−16 5.2	...	−15 58.7
13	+ 7.8	....	− 0.5	+ 7.3
18	+ 7.5	....	− 0.1	+ 7.4
28	+ 6.6	+16 5.5	...	+16 12.1
29	+ 6.5	−16 5.6	...	−15 59.1
31	+ 8.0	....	− 0.6	+ 7.4
34	+ 7.5	....	− 0.1	+ 7.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Leonis	11	8 55.80	— 0.26	— 2.83	17 46 11.48	48.571	+ 18.4	10.8	11 8	.....	.. ..	....
2	β Leonis	11	44 5.48	— 0.23	— 2.74	23 44 11.90	43.316	+ 24.9	13.0	11 44	.....	.. ..	....
	October 17, Br.												
3	Sun I, N	11	26 23.91	— 0.12	— **2.44**	47 42 11.98	43.067	+1 1.7	**12.4**	13 26 21.35	+65.37	— 8 54 30.3	....
4	Sun II, S........	11	28 34.65	— 0.12	— **2.44**	48 14 12.18	43.458	+1 2.9	**12.4**	13 28 32.09	—65.37	— 9 26 41.6	....
5	α Coronæ Borealis .	11	30 33.25	— 0.29	— 2.02	11 48 10.48	45.152	+ 11.8	12.9	15 30	.....	.. ..	....
6	α Serpentis	11	39 27.59	— 0.20	— 2.07	32 6 12.15	45.966	+ 35.3	13.6	15 39	.....	.. ..	....
7	ω Piscium	11	54 18.46	— 0.14	[— 0.38]	32 32 12.38	42.195	+ 37.4	[12.5]	23 54	.....	.. ..	....
8	6 B. Ursæ Minoris S. P..	8	13 24.71	+ 5.96	[+ 1.23]	307 8 10.52	41.637	—1 17.2	[13.0]	12 13	.....	.. ..	....
9	ε Piscium	11	57 53.02	— 0.15	[— 0.14]	31 30 11.75	40.780	+ 36.1	[11.5]	0 57	.....	.. ..	....
10	α Ursæ Minoris....	8	24 51.46	— 9.08	[+ 0.15]	310 6 10.85	42.584	—1 9.6	[11.8]	1 24	.....	.. ..	....
11	ν Piscium	11	36 21.31	— 0.14	[+ 0.02]	33 52 12.65	41.408	+ 39.5	[11.7]	1 36	.....	.. ..	....
	October 17, B.												
12	δ Leonis	11	8 51.95	— 0.14	+ 0.92	17 46 12.02	48.529	+ 19.0	10.9	11 8	.....	.. ..	....
13	β Leonis	11	44 1.75	— 0.12	+ 0.90	23 44 12.40	43.160	+ 25.9	12.0	11 44	.....	.. ..	....
14	α Canum Venat....	11	51 23.95	— 0.25	+ 1.13	0 0 9.70	45.688	+ 0.1	11.3	12 51	.....	.. ..	....
15	ε Virginis.........	5	57 15.73	— 0.12	+ 1.02	27 22 13.20	42.895	+ 30.3	12.5	12 57	.....	.. ..	....
	October 18, B.												
16	Sun I, N	11	30 4.70	— 0.03	+ **1.12**	48 2 13.80	48.795	+1 5.6	**12.1**	13 30 5.79	+65.54	— 9 16 25.9	....
17	Sun II, S........	11	32 15.78	— 0.03	+ **1.12**	48 34 12.22	49.305	+1 6.8	**12.1**	13 32 16.87	—65.54	— 9 48 38.0	....
18	Mercury C........	..	.. ..	....	.....	59 12 11.68	46.611	+1 37.8	**12.6**	15 0	.....	—20 23 0.2	....
19	α Coronæ Borealis .	11	30 29.81	— 0.25	+ 1.37	11 48 11.40	45.015	+ 12.3	11.5	15 30	.....	.. ..	....
20	α Serpentis........	11	39 24.15	— 0.15	+ 1.31	32 6 12.48	45.836	+ 36.6	12.6	15 39	.....	.. ..	....
21	ε Serpentis........	10	45 53.54	— 0.14	+ 1.33	34 4 13.08	44.712	+ 39.5	14.3	15 45	.....	.. ..	....
22	δ Ophiuchi	11	9 10.37	— 0.10	+ 1.30	42 16 12.78	46.780	+ 53.0	12.9	16 9	.....	.. ..	....
23	Venus I, C........	11	19 18.41	+ 0.02	+ **1.35**	62 22 12.82	42.560	+1 50.9	**12.8**	16 19 19.78	+ 0.61	—23 31 56.5	....
24	γ^2 Sagittarii........	..	.. ..	....	.....	69 13 41.65	46.789	+2 32.7	13.4	17 59	.....	.. ..	....
25	μ Sagittarii........	..	.. ..	....	.....	59 53 41.55	47.931	+1 40.3	12.6	18 7	.....	.. ..	....
26	Moon I, S	11	15 3.97	— 0.02	+ **1.45**	59 7 41.45	47.601	+1 37.6	**12.2**	18 15 5.40	+65.76	—20 22 4.0	....
27	λ Sagittarii.........	11	21 53.45	0.00	+ 1.46	64 18	......	....	....	18 21	.....	.. ..	....
28	1 Aquilæ	11	29 50.66	— 0.08	+ 1.49	47 9 41.90	42.401	+1 2.8	12.5	18 29	.....	.. ..	....
29	σ Sagittarii........	11	49 9.54	+ 0.01	+ 1.43	65 13 42.35	46.575	+2 6.0	10.2	18 49	.....	.. ..	....
	October 18, Br.												
30	δ Leonis	11	8 50.20	— 0.13	+ 2.68	17 46 12.28	48.458	+ 18.6	9.2	11 8	.....	.. ..	....
31	β Leonis	9	44 0.05	— 0.10	+ 2.59	23 44 12.25	43.090	+ 25.4	9.8	11 44	.....	.. ..	....
	October 19, Br.												
32	Sun I, S.........	11	33 48.30	0.00	+ **2.88**	48 58 14.05	42.557	+1 5.2	**10.7**	13 33 51.18	+65.55	—10 10 27.8	....
33	Sun II, N........	11	35 59.39	0.00	+ **2.88**	48 26 12.88	51.915	+1 4.0	**10.7**	13 36 2.27	—65.54	— 9 38 15.5	....
34	Mercury I, C	10	2 42.24	— 0.01	+ **3.05**	59 22 11.18	46.260	+1 34.2	**11.4**	15 2 45.28	+ 0.27	—20 32 50.6	....
35	β Libræ...........	11	11 39.90	— 0.09	+ 3.02	47 52 11.38	42.529	+1 1.7	11.5	15 11	.....	.. ..	....
36	α Coronæ Borealis .	11	30 28.08	— 0.31	+ 3.15	11 48 12.28	44.994	+ 11.7	11.2	15 30	.....	.. ..	....
37	α Serpentis	11	39 22.37	— 0.20	+ 3.14	32 6 11.78	45.925	+ 34.9	11.8	15 39	.....	.. ..	....
38	β^1 Scorpii	11	59 40.18	— 0.07	+ 3.09	58 22 10.48	44.226	+1 29.7	12.1	15 59	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
16 11 9	......	....	55.0
11 44	29.645	58.9	59.0
13 24	29.64	63.5	63.8
17 15 31	29.62	63.4	62.0
15 39	......	....	62.2
16 16	29.62	61.7	....
23 54	29.79	46.2	44.0
0 18	29.79	45.0	43.1
0 58	29.795	44.4	42.4
1 36	29.795	44.0	42.3
11 5	29.995	46.5	45.0
11 38	30.01	46.5	45.6
13 0	30.02	47.2	49.0
18 13 34	30.10	50.0	47.8
14 56	30.015	51.3	49.8
15 48	30.015	52.2	50.8
16 23	30.015	52.4	51.0
17 55	30.02	52.5	51.2
18 24	30.02	51.5	51.0
11 9	29.935	52.1	52.6
11 44	......	....	55.3
12 37	29.925	59.5	....
19 13 36	29.900	62.3	63.0
15 3	29.86	69.3	69.4
15 12	......	....	69.9
15 30	......	....	71.8
15 39	29.85	72.1	72.2
16 0	......	....	73.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 4, 16, 17, 26, 32, 33.	Z. D. thread A used.
3, 32.	Bisections at I, II, III.
4, 17, 33.	Bisections at V, VI, VII.
8.	Bisections at c_5, c_4, c_3, c_2, c_1.
10.	Bisections at c_1, c_2, c_3, c_4, c_5.
13, 31.	Bisections at II, VI, VII.
16.	Bisections at I, II.
26.	Bisections at II, III, IV, V, VI.
29.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 6.6	—16 5.6	...	—15 59.0
4	+ 6.6	+16 5.7	...	+16 12.3
16	+ 6.6	—16 6.0	...	—15 59.4
17	+ 6.7	+16 6.0	...	+16 12.7
18	+ 8.4	....	— 0.6	+ 7.8
23	+ 7.7	....	— 0.1	+ 7.6
26	+46 58.0	+14 57.8	...	+61 55.8
32	+ 6.7	+16 6.1	...	+16 12.8
33	+ 6.6	—16 6.1	...	—15 59.5
34	+ 8.7	....	— 0.7	+ 8.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r.	′ ″	″	h m s	s	° ′ ″	″
1	Venus I, C.......	6	24 15.55	− 0.06	+ **3.20**	62 36 12.92	44.274	+1 46.5	**12.2**	16 24 18.69	+ 0.65	−23 46 25.7	....
2	Venus II	5	24 16.48	− 0.06	+ **3.20**	... .	......	....	....	16 24 19.62	− 0.28	.. ..	....
3	ζ Ophiuchi........	11	31 41.70	− 0.15	+ 3.25	49 12 11.60	45.065	+1 4.1	12.6	16 31	.....	.. ..	....
4	θ Herculis.........	11	52 49.85	− 0.53	+ 3.45	1 36 10.40	41.690	+ 1.6	11.6	17 52	.....	.. ..	....
5	δ Ursæ Minoris....	8	3 45.71	− 5.35	[+ 3.35]	312 16 10.88	41.638	−1 0.6	[10.8]	18 3	.....	.. ..	....
6	λ Sagittarii........	11	21 51.66	− 0.15	+ 3.39	64 18 12.02	44.029	+1 54.8	11.9	18 21	.....	.. ..	....
7	1 Aquilæ..........	11	29 48.91	− 0.25	+ 3.40	47 10 11.45	41.024	+ 59.9	12.8	18 29	.....	.. ..	....
8	Moon I, S.......	11	7 54.98	− 0.20	+ **3.50**	57 34 5.80	45.768	+1 27.7	**12.4**	19 7 58.28	+65.87	−18 47 46.3	....
9	δ Aquilæ..........	11	20 30.16	− 0.31	+ 3.49	35 56 12.00	42.126	+ 40.4	13.1	19 20	.....	.. ..	....
	October 20, S.												
10	α Aquilæ..........	11	46 16.88	− 0.16	−16.57	30 14 11.65	44.180	+ 33.9	11.6	19 46	.....	.. ..	....
11	β Aquilæ..........	6	50 46.73	− 0.15	−16.55	32 40 12.52	46.520	+ 37.3	11.0	19 50	.....	.. ..	....
12	Moon I, S.......	11	1 11.11	− 0.02	**−16.54**	55 6 12.10	47.483	+1 23.3	**11.4**	20 0 54.55	+65.90	−16 17 4.2	....
13	α^2 Capricorni.......	11	12 53.74	− 0.04	−16.50	51 42 10.72	40.889	+1 13.5	10.7	20 12	.....	.. ..	....
14	π Capricorni.......	11	21 59.45	− 0.01	−16.53	57 22 10.80	43.494	+1 30.7	12.3	20 21	.....	.. ..	....
	October 20, Br.												
15	46 Leonis Minoris...	11	47 40.30	− 0.30	+ 8.76	4 6 10.68	46.638	+ 4.3	11.0	10 47	.....	.. ..	....
16	δ Leonis	11	8 44.15	− 0.22	+ 8.86	17 46 12.20	48.455	+ 18.7	10.7	11 8	.....	.. ..	....
17	β Leonis	11	43 53.87	− 0.20	+ 8.91	23 44 13.05	43.229	+ 25.5	12.3	11 44	.....	.. ..	....
18	γ Corvi............	9	10 36.10	− 0.04	+ 8.84	55 50 11.38	43.241	+1 24.8	12.4	12 10	.....	.. ..	....
	October 21, Br.												
19	Sun I, N.........	10	41 14.50	− 0.08	+ **8.90**	49 10 12.80	39.345	+1 6.3	**12.3**	13 41 23.32	+65.77	−10 21 24.4	....
20	Sun II, S........	11	43 26.05	− 0.08	+ **8.90**	49 42 11.00	39.885	+1 7.5	**12.3**	13 43 34.87	−65.78	−10 53 36.6	....
21	Mercury C, C	11	6 11.19	− 0.05	+ **8.94**	59 34 12.88	46.674	+1 36.7	**12.7**	15 6 20.08	+ 0.13	−20 45 1.4	....
22	δ Scorpii	11	54 22.34	− 0.06	+ 8.90	61 10 11.85	44.642	+1 42.9	13.9	15 54	.....	.. ..	....
23	β^1 Scorpii	11	59 34.38	− 0.08	+ 8.89	58 22 11.88	44.062	+1 32.0	13.4	15 59	.....	.. ..	....
24	δ Ophiuchi........	11	9 2.65	− 0.16	+ 9.06	42 16 12.45	46.864	+ 51.6	12.6	16 9	.....	.. ..	....
25	α Scorpii	11	23 13.97	− 0.04	+ 8.91	65 2 12.02	44.629	+2 1.4	12.8	16 23	.....	.. ..	....
26	Venus I, C.......	6	34 9.58	− 0.06	+ **8.98**	63 2 11.40	47.421	+1 51.3	**13.1**	16 34 18.50	+ 0.71	−24 13 28.4	....
27	Venus II	5	34 10.58	− 0.06	+ **8.98**	... .	......	....	....	16 34 19.50	− 0.29	.. ..	....
28	κ Ophiuchi........	11	52 52.03	− 0.24	+ 9.07	29 18 12.45	47.235	+ 31.9	12.8	16 53	.....	.. ..	....
29	θ Herculis..... ...	11	52 43.91	− 0.43	[+ 9.24]	1 36 10.48	41.714	+ 1.6	[11.8]	17 52	.....	.. ..	....
30	δ Ursæ Minoris....	8	3 37.80	− 4.40	[+ 9.48]	312 16 11.62	41.715	−1 2.2	[11.1]	18 3	.....	.. ..	....
31	51 H. Cephei S. P ...	9	54 37.03	+ 4.72	[+ 7.54]	306 4 10.15	45.728	−1 17.8	[12.0]	6 54	.....	.. ..	....
32	ι Lyræ............	11	3 39.15	− 0.42	[+ 9.33]	2 54 10.52	44.806	+ 3.0	[12.1]	19 3	.....	.. ..	....
33	α Delphini	11	34 56.64	− 0.31	+ 9.20	23 16 11.98	46.411	+ 24.8	12.5	20 35	.....	.. ..	....
34	μ Aquarii..........	11	47 13.42	− 0.19	+ 9.21	48 12 12.48	41.766	+1 4.5	12.0	20 47	.....	.. ..	....
35	Moon I, S	11	53 47.71	− 0.17	+ **9.24**	51 42 11.50	41.442	+1 13.2	**12.6**	20 53 56.78	+66.00	−12 54 11.2	....
36	1 Pegasi...........	11	17 24.90	− 0.33	+ 9.32	19 28 11.95	43.141	+ 20.5	13.0	21 17	.....	.. ..	....
37	β Aquarii..........	11	26 15.50	− 0.20	+ 9.25	44 50 12.50	45.498	+ 57.6	12.9	21 26	.....	.. ..	....
	October 21, B.												
38	β Leonis	11	43 52.78	− 0.17	+ 9.99	23 44 12.25	43.281	+ 25.4	12.2	11 44	.....	.. ..	....
39	α Canum Venat....	11	51 14.98	− 0.36	+10.25	0 0 10.10	45.650	+ 0.1	11.7	12 51	.....	.. ..	....

Time. d	h	m	Barom.	Att. Ther.	Ext. Ther.
			in.	°	°
19	16	24	......	....	74.1
	16	32	29.85	74.0	74.3
	17	53	29.84	74.1	74.0
	18	4	......	....	73.8
	18	22	......	....	72.9
	18	30	29.85	72.7	72.2
	19	12	......	....	70.7
	19	41	29.885	69.9	69.5
20	19	40	30.13	56.7	55.2
	20	27	30.13	54.4	53.1
	10	48	30.185	53.5	52.9
	11	9	......	...	54.8
	11	44	30.185	57.1	57.4
	12	11	30.19	59.0	59.1
21	13	45	30.18	62.5	62.8
	15	6	30.15	65.6	65.2
	15	54	30.15	66.7	66.0
	16	9	......	....	66.1
	16	23	......	....	66.3
	16	34	30.14	66.4	66.3
	16	53	30.14	66.5	66.4
	17	53	30.13	66.0	66.0
	18	5	30.13	66.0	66.0
	19	4	30.12	63.1	63.0
	20	35	30.12	59.0	58.8
	20	47	......	....	57.9
	20	54	30.125	58.1	57.3
	21	17	......	. ..	56.8
	21	26	30.13	57.0	56.1
	11	40	30.055	57.0	55.5
	12	48	30.03	60.2	59.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 30.	Bisections at c_1, c_2, c_3, c_4, c_5.
8, 19, 20, 35.	Z. D. thread A used.
8.	Bisections at IV, VI, VII.
11, 16, 39.	Bisections at VI, VII.
12.	Bisections at III, IV, V.
19.	Bisections at I, II, III.
20.	Bisections at V, VI, VII.
23.	Bisections at II, VI, VII.
31.	Bisections at c_5, c_4, c_3, c_2, c_1.
35.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 7.7	....	− 0.1	+ 7.6
8	+46 40.5	+15 7.5	...	+61 48.0
12	+45 56.5	+15 19.7	...	+61 16.2
19	+ 6.7	−16 6.1	...	−15 59.4
20	+ 6.8	+16 6.0	...	+16 12.8
21	+ 9.1	....	− 0.8	+ 8.3
26	+ 7.8	....	− 0.1	+ 7.7
35	+44 39.7	+15 34.3	...	+60 14.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Virginis	11	57 6.69	− 0.21	+10.19	27 22 12.62	43.094	+ 29.6	14.4	12 57	.....	.. ..	....
	October 22, B.												
2	Sun I, S........	11	45 0.33	− 0.10	**+10.18**	50 2 10.35	44.503	+1 7.8	**14.3**	13 45 10.41	+65.84	−11 15 0.4	....
3	Sun II, N	11	47 12.01	− 0.10	**+10.18**	49 30 10.62	43.513	+1 6.5	**14.3**	13 47 22.09	−65.84	−10 42 42.8	....
4	Mercury I	11	7 20.53	− 0.06	**+10.22**	59 36	......	....	....	15 7 30.69	+ 0.29	.. ..	....
5	β Libræ..........	11	11 32.67	− 0.13	+10.28	47 52 11.18	42.725	+1 4.5	17.8	15 11	.....	.. ..	....
6	α Serpentis........	10	39 15.28	− 0.23	+10.23	32 6 12.28	46.151	+ 34.9	16.3	15 39	.....	.. ..	....
7	δ Ophiuchi........	11	9 1.52	− 0.18	+10.20	42 16 11.88	47.169	+ 50.5	16.8	16 9	.....	.. ..	....
8	ζ Ophiuchi........	11	31 34.66	− 0.14	+10.25	49 12 11.32	45.295	+1 4.3	16.8	16 31	.....	.. ..	....
9	Venus I, C	11	39 9.25	− 0.05	**+10.26**	63 16 11.20	43.280	+1 49.7	**16.9**	16 39 19.46	+ 0.63	−24 26 3.4	....
10	β Aquarii..........	11	26 14.40	− 0.22	+10.36	44 50 11.55	45.686	+ 55.9	13.8	21 26	.....	.. ..	....
11	ξ Aquarii..........	11	32 22.51	− 0.21	+10.37	47 8 11.50	43.881	+1 0.4	13.9	21 32	.....	.. ..	....
12	Moon I, S	11	47 11.04	− 0.23	**+10.41**	47 32 11.42	47.421	+1 1.1	**13.6**	21 47 21.22	+66.33	− 8 45 52.7	....
13	α Aquarii..........	11	0 35.58	− 0.28	+10.46	39 38 11.35	44.949	+ 46.1	13.8	22 0	.....	.. ..	....
14	θ Aquarii..........	11	11 30.29	− 0.25	+10.45	47 6 11.55	45.941	+ 59.6	13.0	22 11	.....	.. ..	....
	October 22, L.												
15	δ Leonis	11	8 42.20	− 0.24	+10.87	17 46 11.98	48.659	+ 18.1	11.4	11 8	.....	.. ..	....
16	ν Ursæ Majoris	11	12 59.32	− 0.31	+10.95	5 14 9.82	42.962	+ 5.2	12.5	11 13	.....	.. ..	....
17	β Leonis	11	43 51.91	− 0.25	+10.95	23 44 9.22	43.521	+ 24.6	12.8	11 44	.....	.. ..	....
	October 23, L.												
18	Sun I, N	11	48 47.16	− 0.18	**+11.07**	49 54 12.30	45.035	+1 5.3	**13.4**	13 48 58.05	+65.95	−11 3 56.3	....
19	Sun II, S........	11	50 59.05	− 0.18	**+11.07**	50 26 11.28	45.658	+1 6.5	**13.4**	13 51 9.94	−65.94	−11 36 10.7	....
20	ε Bootis..........	11	40 30.14	− 0.42	+11.18	11 22 10.85	43.656	+ 11.0	14.1	14 40	.....	.. ..	....
21	Venus I, C.......	11	44 9.87	− 0.13	**+11.24**	63 28 11.65	43.111	+1 48.5	**14.8**	16 44 20.98	+ 0.63	−24 38 1.5	....
22	α Ophiuchi........	11	30 11.49	− 0.38	+11.23	26 12 11.42	46.888	+ 26.9	15.6	17 30	.....	.. ..	....
23	μ Herculis.........	11	42 25.75	− 0.48	+11.30	11 4 9.75	45.070	+ 10.7	14.6	17 42	.....	.. ..	....
	October 23, Br.												
24	δ Leonis	11	8 40.95	− 0.31	+12.21	17 46 11.00	48.735	+ 18.2	12.5	11 8	.....	.. ..	....
25	β Leonis	11	43 50.74	− 0.29	+12.18	23 44 11.28	43.461	+ 24.9	13.9	11 44	.....	.. ..	....
26	α Canum Venat....	11	51 12.95	− 0.42	+12.37	0 0 9.02	45.918	+ 0.1	13.3	12 51	.....	.. ..	....
	October 24, Br.												
27	Sun I, S....	11	52 34.29	− 0.17	**+12.36**	50 44 11.50	44.941	+1 9.2	**13.8**	13 52 46.48	+65.99	−11 57 11.8	....
28	Sun II, N	11	54 46.27	− 0.17	**+12.36**	50 12 10.88	44.077	+1 7.8	**13.8**	13 54 58.46	−65.99	−11 24 55.7	....
29	α Coronæ Borealis..	11	30 18.69	− 0.35	+12.55	11 48 10.25	45.315	+ 11.9	14.5	15 30	.....	.. ..	....
30	α Serpentis........	11	39 13.02	− 0.25	+12.50	32 6 12.28	46.051	+ 35.5	14.8	15 39	.....	.. ..	....
31	α Scorpii..........	6	23 10.57	− 0.09	+12.34	65 2 11.45	44.807	+2 0.8	14.7	16 23	.....	.. ..	....
32	Venus I, C.......	11	49 10.40	− 0.10	**+12.54**	63 38 11.52	46.798	+1 53.9	**14.4**	16 49 22.84	+ 0.64	−24 49 17.9	....
33	κ Ophiuchi........	11	52 48.55	− 0.26	+12.54	29 18 11.35	47.308	+ 31.8	13.4	16 53	.....	.. ..	....
34	θ Piscium	11	22 48.05	− 0.19	+13.02	33 0 11.35	44.746	+ 38.0	13.6	23 23	.....	.. ..	....
35	ι Piscium	11	34 42.81	− 0.18	+13.05	33 46 11.52	40.689	+ 39.1	12.4	23 34	.....	.. ..	....
36	Moon I, S	11	37 9.01	− 0.17	**+13.11**	37 44 11.12	43.592	+ 45.4	**12.6**	23 37 21.95	+68.10	+ 1 3 35.7	....
37	ω Piscium	11	54 4.96	− 0.19	+13.14	32 32 10.90	42.270	+ 37.4	12.5	23 54	.....	.. ..	....
38	33 Piscium	11	0 7.29	− 0.13	+13.15	45 6 11.40	43.110	+ 58.9	12.1	0 0	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
21	13	25	30.02	63.5	64.0
22	13	48	30.10	65.0	66.1
	15	2	29.97	70.2	72.2
	15	43	29.965	72.5	73.5
	16	11	29.96	72.8	74.2
	16	44	29.95	73.8	74.4
	21	25	29.93	65.0	67.3
	22	17	29.93	74.9	76.2
	11	9	29.83	63.8	64.8
	11	44	......	....	69.0
23	13	52	29.775	73.0	76.0
	14	41	29.75	77.2	80.8
	16	44	29.69	78.5	80.3
	17	30	......	....	79.2
	17	42	29.67	77.4	78.7
	11	9	29.75	61.3	59.9
	11	44	29.75	62.0	60.8
	12	51	29.75	62.6	61.1
24	13	55	29.75	63.6	62.5
	15	30	29.75	62.1	60.8
	15	39	29.75	62.7	61.0
	16	23	29.755	63.6	62.3
	16	53	29.76	62.8	61.0
	23	23	29.92	50.9	48.0
	23	35	......	....	47.4
	23	37	29.925	50.3	47.2
	23	54	......	....	46.5
	0	0	......	....	46.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 3, 12, 27, 28, 36.	Z. D. thread A used.
2, 18, 27.	Bisections at I, II, III.
3, 19, 28.	Bisections at V, VI, VII.
12, 36.	Bisections at II, III, IV, V, VI.
16.	Bisections at VI, VII.
24, 33.	Bisections at II, VI, VII.
31.	Bisections at I, II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 6.8	+16 8.8	...	+16 15.6
3	+ 6.8	−16 8.8	...	−16 2.0
9	+ 7.9	....	− 0.1	+ 7.8
12	+42 42.9	+15 50.3	...	+58 33.2
18	+ 6.8	−16 7.2	...	−16 0.4
19	+ 6.8	+16 7.2	...	+16 14.0
21	+ 8.0	....	− 0.1	+ 7.9
27	+ 6.9	+16 8.0	...	+16 14.9
28	+ 6.8	−16 8.0	...	−16 1.2
32	+ 8.0	....	− 0.1	+ 7.9
36	+36 35.8	+16 22.1	...	+52 57.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	6 B. Ursæ Minoris S. P. .	8	13 14.65	+ 6.14	[+12. 81]	307 8 9.88	41.586	−1 17.2	[13. 9]	12 13	.....	.. ..	....
2	ε Piscium	11	57 39.61	− 0.19	+13. 32	31 30 10.45	40.858	+ 36.2	[12. 0]	0 57	.....	.. ..	....
3	α Ursæ Minoris	8	24 37.95	− 9.43	[+13. 71]	310 6 8.20	42.664	−1 9.9	[13. 0]	1 24	.....	.. ..	....
	October 24, B.												
4	β Leonis	11	43 47.40	− 0.09	+15. 34	23 44 11.25	43.340	+ 26.1	12. 6	11 44	.....	.. ..	....
5	ε Corvi	9	4 48.67	+ 0.07	+15. 36	60 54 12.58	43.935	+1 46.0	11. 4	12 5	.....	.. ..	....
6	γ Corvi	11	10 29.69	+ 0.04	+15. 24	55 50 11.00	43.127	+1 27.0	12. 7	12 10	.....	.. ..	....
7	δ² Corvi	11	24 31.24	+ 0.02	+15. 34	54 48 12.58	44.250	+1 23.7	13. 0	12 24	.....	.. ..	....
	October 25, B.												
8	Sun I, N	11	56 19.93	− 0.01	**+15. 52**	50 32 12.45	46.477	+1 11.4	**12. 6**	13 56 35.44	+66.16	−11 45 45.7	....
9	Sun II, S	11	58 32.24	− 0.01	**+15. 52**	51 4 11.08	47.177	+1 12.8	**12. 6**	13 58 47.75	−66.15	−12 18 1.5	....
10	Mercury I, C	8	7 54.84	+ 0.01	**+15. 64**	59 24 11.62	42.464	+1 38.5	**12. 6**	15 8 10.49	+ 0.31	−20 33 41.3	....
11	α Serpentis	11	39 9.64	− 0.11	+15. 74	32 6 12.50	45.902	+ 36.6	13. 1	15 39	.....	.. ..	....
12	α Scorpii	11	23 7.06	+ 0.01	+15. 74	65 2 12.02	44.394	+2 4.5	11. 7	16 23	.....	.. ..	....
13	ζ Ophiuchi	11	31 29.00	− 0.06	+15. 80	49 12 11.75	44.915	+1 7.3	12. 8	16 31	.....	.. ..	....
14	Venus I, S	10	54 9.23	0.00	**+15. 82**	63 46 11.78	45.105	+1 57.9	**12. 6**	16 54 25.05	+ 0.64	−25 0 6.1	....
15	Venus N	..	.. ..	....	.....	63 46 11.78	44.152	+1 57.9	**12. 6**	.. ..	.....	−24 59 48.0	....
16	η Ophiuchi	11	4 28.76	− 0.05	+15. 84	54 26 11.62	44.592	+1 21.3	13. 4	17 4	.....	.. ..	....
17	44 Piscium	11	20 7.62	− 0.08	+16. 41	37 26 11.30	46.335	+ 45.4	11. 2	0 20	.....	.. ..	....
18	12 Ceti	11	24 47.02	− 0.06	+16. 50	43 20 10.82	45.059	+ 56.0	11. 2	0 25	.....	.. ..	....
19	Moon I, S	11	35 0.26	− 0.10	**+16. 48**	32 34 13.05	48.469	+ 38.1	**10. 9**	0 35 16.64	+69.56	+ 6 12 5.8	....
20	δ Piscium	11	43 20.76	− 0.10	+16. 50	31 48 12.40	42.655	+ 36.8	10. 6	0 43	.....	.. ..	....
21	ε Piscium	11	57 36.32	− 0.10	+16. 52	31 30 11.55	40.724	+ 36.4	10. 7	0 57	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
24 0 16	29.93	48.5	45.4
0 58	.....	....	43.7
1 31	29.935	45.0	42.3
11 39	30.08	45.5	44.3
12 27	30.08	47.2	45.0
25 13 59	30.07	50.2	48.2
15 12	30.05	52.0	50.5
15 44	30.05	53.8	51.0
16 30	30.04	54.0	52.4
17 7	30.04	54.0	52.2
0 14	30.045	44.8	43.0
1 1	30.05	43.5	41.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1.	Bisections at c_5, c_4, c_3, c_2, c_1.
3.	Bisections at c_1, c_2, c_3, c_4, c_5.
6, 7.	Bisections at II, VI, VII.
8, 9, 14, 15, 19.	Z. D. thread A used.
8.	Bisections at I, II, III.
9.	Bisections at V, VI, VII.
14.	Bisections at I, VII.
15.	Bisections at II, VI.
19.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
8	+ 6.9	−16 7.9	...	−16 1.0
9	+ 6.9	+16 7.9	...	+16 14.8
10	+ 9.9	....	− 1.0	+ 8.9
14	+ 8.1	+ 9.1	− 0.1	+ 17.1
15	+ 8.1	− 9.1	...	− 1.0
19	+32 36.8	+16 34.6	...	+49 11.4

SIX-INCH TRANSIT CIRCLE.

OBSERVATIONS AND REDUCTIONS.

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	October 25, L.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Leonis	9	8 52.89	+ 0.06	− 0.05	342 6 2.78	25.485	− 19.0	24.7	11 8	.....	.. ..	....
2	β Leonis	6	44 2.62	+ 0.06	− 0.01	336 8 0.12	29.155	− 25.9	23.5	11 44	.....	.. ..	....
3	α Canum Venat....	9	51 24.92	+ 0.06	− 0.05	359 52 7.60	27.226	− 0.1	22.6	12 51	.....	.. ..	....
4	α Virginis	9	20 0.66	+ 0.06	− 0.05	310 24 6.85	26.031	−1 7.5	24.0	13 20	.....	.. ..	....
	October 26, L.												
5	Sun I, S.........	9	0 25.13	+ 0.06	− **0.01**	308 24 7.75	26.503	−1 12.1	**23.0**	14 0 25.18	+66.27	−12 38 39.9	....
6	Sun II, N........	9	2 37.68	+ 0.06	− **0.01**	308 56 3.10	27.170	−1 10.8	**23.0**	14 2 37.73	−66.28	−12 6 23.3	....
7	α Bootis............	9	11 10.02	+ 0.06	+ 0.02	340 44 3.88	25.572	− 20.0	22.6	14 11	.....	.. ..	....
8	Mercury I, C	9	7 19.47	+ 0.06	+ **0.01**	300 40 6.30	28.784	−1 35.7	**22.7**	15 7 19.54	+ 0.32	−20 21 59.1	....
9	δ Ophiuchi.........	9	9 11.40	+ 0.06	+ 0.04	317 36 4.58	26.572	− 51.9	22.6	16 9	.....	.. ..	....
10	β Herculis..........	9	25 59.18	+ 0.06	− 0.02	342 44 0.22	27.134	− 17.6	22.1	16 25	.....	.. ..	....
11	Venus I, N	4	59 27.79	+ 0.05	+ **0.04**	295 52 2.52	30.028	−1 56.4	**22.0**	16 59 27.88	+ 0.72	−25 9 47.5	....
12	Venus II, S......	5	59 28.77	+ 0.05	+ **0.04**	295 52 2.52	29.398	−1 56.4	**22.0**	16 59 28.86	− 0.26	−25 10 5.2	....
13	α Ophiuchi.........	9	30 22.18	+ 0.06	+ 0.06	333 40 4.10	26.720	− 28.1	21.9	17 30	.....	.. ..	....
14	6 B. Ursæ Minoris S. P.	9	13 34.78	− 1.99	[+ 1.42]	52 46 11.32	25.884	+1 16.8	[23.6]	12 13	.....	.. ..	....
15	f Piscium	9	12 45.96	+ 0.06	− 0.05	324 8 3.50	27.046	− 42.2	24.3	1 12	.....	.. ..	....
16	α Ursæ Minoris....	6	24 41.15	+ 0.30	[+ 0.82]	49 48 6.65	25.372	+1 9.2	[23.9]	1 24	.....	.. ..	....
17	π Piscium	9	31 55.59	+ 0.05	− 0.05	332 40 7.08	27.549	− 30.2	23.5	1 31	.....	.. ..	....
18	Moon I, S	9	35 51.36	+ 0.05	− **0.07**	332 2 0.98	26.578	− 31.0	**24.1**	1 35 51.34	+71.22	+10 59 55.8	....
19	β Arietis	9	49 15.11	+ 0.04	− 0.09	341 22 4.28	25.821	− 19.7	23.0	1 49	.....	.. ..	....
20	ξ¹ Ceti.............	9	7 49.78	+ 0.05	− 0.10	329 25 59.78	25.456	− 34.5	25.6	2 7	.....	.. ..	....
	October 27, S.												
21	67 Ceti.............	9	12 6.99	+ 0.02	+ 0.03	314 10 5.28	26.785	− 59.3	23.5	2 12	.....	.. ..	....
22	ξ² Ceti.............	9	22 58.18	+ 0.01	+ 0.11	329 2 5.48	29.450	− 34.6	23.5	2 22	.....	.. ..	....
23	Moon II, N	8	41 35.30	0.00	+ **0.12**	336 36 4.05	28.337	− 25.0	**23.2**	2 41 35.42	−72.73	+15 34 55.9	....
24	ε Arietis	5	53 37.81	0.00	+ 0.17	341 58 4.40	28.155	− 18.8	23.9	2 53	.....	.. ..	....
25	ζ Arietis	9	9 17.43	0.00	+ 0.15	341 42 1.90	28.095	− 19.1	22.0	3 9	.....	.. ..	....
	October 27, Br.												
26	α Canum Venat ...	9	51 24.90	+ 0.06	− 0.01	359 51 59.78	27.391	− 0.1	20.1	12 51	.....	.. ..	....
	October 28, Br.												
27	Sun I, N	9	8 6.84	+ 0.05	− **0.02**	308 16 8.38	25.520	−1 12.7	**20.8**	14 8 6.87	+66.51	−12 47 5.6	....
28	Sun II, S.........	7	10 19.87	+ 0.05	− **0.02**	307 42 8.05	29.095	−1 14.1	**20.8**	14 10 19.90	−66.52	−13 19 24.3	....
29	η Ophiuchi.........	8	4 44.63	+ 0.07	− 0.18	305 26	......	....	....	17 4	.....	.. ..	....
30	Venus I, S........	4	9 34.18	+ 0.06	− **0.05**	295 34 4.58	29.495	−1 58.6	**20.8**	17 9 34.19	+ 0.59	−25 28 1.4	....
31	Venus II, N	5	9 34.97	+ 0.06	− **0.05**	295 34 4.58	30.120	−1 58.6	**20.8**	17 9 34.98	− 0.20	−25 27 43.8	....
32	α Ophiuchi.........	9	30 22.19	+ 0.11	− 0.02	333 38 0.72	31.019	− 28.3	21.0	17 30	.....	.. ..	....
33	μ Herculis..........	9	42 36.32	+ 0.12	+ 0.04	348 47 57.68	28.139	− 11.3	21.3	17 42	.....	.. ..	....
	October 29, B.												
34	i Tauri	5	45 39.33	+ 0.02	+ 0.39	339 42 10.10	26.778	− 21.9	23.0	4 45	.....	.. ..	....
35	Moon II..........	9	53 8.64	+ 0.02	+ **0.35**	340 30	......	....	....	4 53 9.01	−73.58	.. ..	....
36	11 Orionis..........	9	58 59.04	+ 0.02	+ 0.31	336 18 5.08	26.385	− 25.9	22.0	4 58	.....	.. ..	....
37	β Eridani	9	3 2.66	+ 0.01	+ 0.40	315 48	......	....	....	5 3	.....	.. ..	....
38	β Orionis..........	9	9 50.49	0.00	+ 0.30	312 42 15.22	29.761	−1 4.0	22.6	5 9	.....	.. ..	....
39	γ Geminorum	9	32 3.47	+ 0.02	+ 0.38	337 30 7.32	28.117	− 24.5	22.3	6 32	.....	.. ..	....
40	ε Geminorum	9	37 54.57	+ 0.03	+ 0.41	346 16 5.40	24.994	− 14.4	21.0	6 37	.....	.. ..	....
41	51 H. Cephei.......	7	54 52.13	+ 0.86	[+ 0.49]	48 12 4.58	26.969	+1 6.4	[24.7]	6 54	.....	.. ..	....
42	ζ Geminorum	7	58 18.10	+ 0.03	+ 0.37	341 44	......	....	....	6 58	.....	.. ..	....
43	λ Ursæ Minoris S. P.	7	19 56.50	− 2.37	[+ 1.48]	52 0 7.35	27.141	+1 16.0	[24.3]	19 19	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
25	11	9	30.069	43.0	44.2
	11	44	......	....	48.0
	12	51	......	....	55.3
	13	20	30.076	53.8	56.8
26	14	3	30.056	56.9	58.8
	14	11	......	....	59.1
	15	7	30.040	60.1	60.9
	16	9	......	....	62.0
	16	26	30.024	62.0	62.1
	16	59	......	....	62.0
	17	30	30.008	62.8	61.7
	0	23	29.968	50.0	48.8
	1	13	29.956	49.1	47.8
	2	8	29.936	48.4	46.8
27	2	10	30.00	54.2	54.0
	3	9	30.000	53.6	52.6
	12	51	30.178	57.2	56.9
28	14	12	30.190	60.0	59.5
	17	10	30.190	63.1	62.0
	17	30	30.194	63.0	61.6
	17	43	30.198	62.9	61.3
29	4	43	30.260	47.8	46.2
	5	16	30.254	47.4	45.8
	6	0	30.246	47.4	45.5
	7	30	30.252	46.8	45.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 21, 25, 34.	Bisections at VI, VII.
5.	Bisections at I, II, III.
6.	Bisections at V, VI, VII.
9, 39.	Bisections at II, VI, VII.
11, 31.	Bisections at II, VI.
12, 30.	Bisections at I, VII.
14, 43.	Bisections at c_5, c_4, c_3, c_2, c_1.
16.	Bisections at c_2, c_3, c_4.
18, 23.	Bisections at II, III, IV, V, VI.
27.	Bisections at II, III.
28.	Bisection at VII.
36.	Bisections at I, II, VI.
41.	Bisections at c_1, c_2, c_3, c_4, c_5.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 6.9	+16 8.3	...	+16 15.2
6	+ 6.9	−16 8.3	...	−16 1.4
8	+ 10.1	....	− 1.1	+ 9.0
11	+ 8.1	− 8.9	...	− 0.8
12	+ 8.1	+ 8.9	− 0.1	+ 16.9
18	+28 27.1	+16 42.7	...	+45 9.8
23	+24 5.7	−16 45.2	...	+ 7 20.5
27	+ 7.0	−16 9.4	...	16 2.4
28	+ 7.0	+16 9.3	...	+16 16.3
30	+ 8.3	+ 8.8	0.0	+ 17.1
31	+ 8.3	− 8.8	...	− 0.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	October 29, L.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Leonis	6	44 2.60	+ 0.10	+ 0.05	336 7 55.48	28.850	— 26.0	10.9	11 44	.....	.. ..	....
2	α Virginis	7	20 0.60	+ 0.08	+ 0.04	310 24 0.65	25.825	—1 8.3	11.4	13 20	.....	.. ..	....
	October 30, L.												
3	Sun I, N	9	15 51.48	+ 0.07	+ **0.09**	307 34 1.28	29.873	—1 15.0	**10.6**	14 15 51.64	+66.75	—13 27 0.8	....
4	Sun II, S	9	18 4.98	+ 0.07	+ **0.09**	307 1 59.52	29.255	—1 16.5	**10.6**	14 18 5.14	—66.75	—13 59 20.8	....
5	α Coronæ Borealis .	9	30 30.63	+ 0.10	+ 0.14	348 4 0.05	27.480	— 12.1	11.3	15 30	.....	.. ..	....
6	β Herculis	9	25 58.96	+ 0.10	+ 0.12	342 43 57.88	26.745	— 17.8	9.2	16 25	.....	.. ..	....
7	α¹ Herculis	9	10 9.47	+ 0.10	+ 0.20	335 31 58.48	26.879	— 26.0	9.0	17 10	.....	.. ..	....
8	Venus I, N	8	19 41.23	+ 0.06	+ **0.18**	295 20 1.62	27.290	—2 0.2	**9.6**	17 19 41.47	+ 0.68	—25 42 57.8	....
9	Venus S	..	.. ..	....	.....	295 20 1.62	26.660	—2 0.2	**9.6**	.. ..	.....	—25 43 15.5	....
10	α Ophiuchi	9	30 21.97	+ 0.09	+ 0.19	333 39 58.75	26.479	— 28.3	9.9	17 30	.....	.. ..	....
11	ε Orionis	9	31 15.23	+ 0.06	+ 0.21	319 46 1.00	27.289	— 49.9	12.2	5 31	.....	.. ..	....
12	α Orionis	9	49 52.77	+ 0.06	+ 0.16	328 24 2.75	29.191	— 36.2	12.4	5 49	.....	.. ..	....
13	Moon II, S	9	58 6.59	+ 0.07	+ **0.21**	340 3 59.72	26.898	— 21.4	**11.7**	5 58 6.87	—72.47	+19 2 25.7	....
14	Neptune C, C	9	5 38.21	+ 0.07	+ **0.21**	343 15 59.30	28.496	— 17.7	**11.7**	6 5 38.49	.....	+22 15 14.3	....
15	η Geminorum	9	8 58.47	+ 0.07	+ 0.23	343 34 0.05	25.882	— 17.4	11.6	6 8	.....	.. ..	....
16	μ Geminorum	9	17 2.59	+ 0.07	+ 0.22	343 35 58.35	25.324	— 17.3	10.7	6 17	.....	.. ..	....
	November 1, B.												
17	ν Geminorum	9	23 8.99	+ 0.17	[+ 0.47]	341 18	......	....	....	6 23	.....	.. ..	....
18	51 H. Cephei	6	54 52.50	+ 1.71	[+ 0.91]	48 12 3.55	26.558	+1 5.3	[10.5]	6 54	.....	.. ..	....
19	λ Ursæ Minoris S. P.	5	19 51.76	— 4.30	[+ 3.53]	52 0 5.42	26.805	+1 14.8	[11.5]	19 19	.....	.. ..	....
20	α² Geminorum	9	28 20.87	+ 0.19	+ 0.44	353 8 2.20	25.470	— 7.0	10.2	7 28	.....	.. ..	....
21	α Canis Minoris	9	34 10.33	+ 0.15	+ 0.45	326 30 6.95	27.451	— 38.6	11.2	7 34	.....	.. ..	....
22	Moon II, S.	9	59 0.74	+ 0.16	+ **0.47**	335 48 5.78	31.821	— 26.2	**10.9**	7 59 1.37	—68.32	+14 48 48.0	....
23	ζ¹ Cancri	9	6 35.23	+ 0.16	+ 0.51	338 58 6.58	26.875	— 22.4	11.5	8 6	.....	.. ..	....
24	η Cancri	9	27 2.12	+ 0.17	+ 0.49	341 48 3.10	26.509	— 19.2	10.6	8 27	.....	.. ..	....
	November 1, L.												
25	β Leonis	9	44 2.40	+ 0.10	+ 0.32	336 7 58.75	28.708	— 25.6	11.0	11 44	.....	.. ..	....
26	ο Virginis	9	0 11.79	+ 0.09	+ 0.27	330 18 2.45	27.792	— 33.0	12.7	12 0	.....	.. ..	....
27	γ Corvi	4	10 44.71	+ 0.06	+ 0.36	304 2 6.55	28.592	—1 25.1	11.7	12 10	.....	.. ..	....
28	α Virginis	8	20 0.19	+ 0.07	+ 0.50	310 24 3.98	25.668	—1 7.2	11.4	13 20	.....	.. ..	....
	November 2, L.												
29	Sun I, S	9	27 34.40	+ 0.07	+ **0.37**	306 3 59.22	28.942	—1 18.0	**11.2**	14 27 34.84	+67.08	—14 57 33.1	....
30	Sun II, N	9	29 48.57	+ 0.07	+ **0.37**	306 35 58.45	29.655	—1 16.5	**11.2**	14 29 49.01	—67.09	—14 25 11.1	....
31	δ Ophiuchi	9	9 11.07	+ 0.08	+ 0.35	317 36 1.38	26.259	— 51.9	10.9	16 9	.....	.. ..	....
32	β Herculis	9	25 58.67	+ 0.10	+ 0.39	342 44 0.48	26.680	— 17.6	10.7	16 25	.....	.. ..	....
33	η Ophiuchi	9	4 44.10	+ 0.07	+ 0.31	305 26 1.45	27.802	—1 19.6	11.0	17 4	.....	.. ..	....
34	α Ophiuchi	9	30 21.73	+ 0.09	+ 0.40	333 40 1.08	26.375	— 28.1	9.8	17 30	.....	.. ..	....
35	Venus I, N	4	34 51.96	+ 0.05	+ **0.38**	295 2 0.92	27.960	—2 0.8	**10.5**	17 34 52.39	+ 0.95	—26 0 40.9	....
36	Venus II, S.	5	34 53.19	+ 0.05	+ **0.38**	295 2 0.92	27.258	—2 0.8	**10.5**	17 34 53.62	—0.28	—26 1 0.7	....
37	μ Herculis	9	42 35.86	+ 0.11	+ 0.44	348 47 57.10	27.749	— 11.2	10.6	17 42	.....	.. ..	....
38	σ Hydræ	8	33 37.92	0.00	+ 0.49	324 42 0.35	29.001	— 41.9	9.7	8 33	.....	.. ..	....
39	ε Hydræ	9	41 35.00	0.00	+ 0.43	327 48 2.18	27.908	— 37.3	11.6	8 41	.....	.. ..	....
40	Moon II, S	9	54 1.32	0.00	+ **0.47**	332 22 1.58	25.913	— 31.0	**11.6**	8 54 1.79	—66.12	+11 19 50.0	....
41	κ Cancri	9	2 26.01	0.00	+ 0.46	332 6 1.12	25.736	— 31.4	12.6	9 2	.....	.. ..	....
42	θ Hydræ	9	9 15.57	0.00	+ 0.48	323 46 2.12	26.036	— 43.4	12.5	9 9	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
29	11	44	30.274	49.0	48.9
	13	20	30.260	54.4	54.1
30	14	18	30.230	56.3	56.4
	15	31	30.204	59.1	59.0
	16	26	......	....	60.0
	17	10	......	....	60.8
	17	20	......	....	60.8
	17	30	30.176	61.5	61.0
	5	31	30.064	46.0	44.3
	6	17	30.058	46.0	44.7
1	6	29	29.966	50.0	49.0
	6	47	......	....	48.8
	7	50	29.982	48.8	47.7
	8	31	29.990	48.2	47.5
	11	44	30.050	51.2	52.9
	12	0	......	....	53.8
	12	11	30.056	53.0	55.0
	13	20	......	....	58.6
2	14	30	30.042	59.6	60.8
	16	9	30.020	62.8	61.8
	16	26	......	....	62.0
	17	5	30.012	63.0	62.3
	17	30	......	....	62.3
	17	43	30.012	63.0	62.5
	8	34	30.008	43.6	40.9
	9	9	30.010	43.2	40.7

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 15.	Bisections at VI, VII.
3.	Bisections at I, II, III.
4.	Bisections at V, VI, VII.
8, 35.	Bisections at II, VI.
9, 36.	Bisections at I, VII.
13, 22, 40.	Bisections at II, III, IV, V, VI.
18.	Bisections at c_1, c_2, c_3, c_4, c_5.
19.	Bisections at c_5, c_4, c_3, c_2, c_1.
27, 33.	Bisections at I, II, VII.
29.	Bisections at I, II.
30.	Bisections at V, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 7.0	—16 10.0	...	—16 3.0
4	+ 7.1	+16 9.9	...	+16 17.0
8	+ 8.4	— 8.9	...	— 0.5
9	+ 8.4	+ 8.9	— 0.1	+ 17.2
13	+20 8.4	+16 20.3	...	+36 28.7
14	+ 0.1	....	...	+ 0.1
22	+23 29.1	+15 50.1	...	+39 19.2
29	+ 7.2	+16 10.9	...	+16 18.1
30	+ 7.1	—16 11.0	...	—16 3.9
35	+ 8.7	— 9.9	...	— 1.2
36	+ 8.7	+ 9.9	0.0	+ 18.6
40	+26 14.6	+15 35.4	...	+41 50.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	November 3, S.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	θ Hydræ..........	9	9 15.28	+ 0.01	+ 0.79	323 45 51.48	26.382	— 43.3	11.9	9 9	.....	.. ..	....
2	ο Leonis..........	9	35 54.41	+ 0.01	+ 0.75	331 22 2.05	26.840	— 32.3	11.0	9 35	.....	.. ..	....
3	Moon II, S......	9	45 51.13	+ 0.01	+ **0.75**	328 20 2.68	29.862	— 36.4	**11.4**	9 45 51.89	—64.27	+ 7 19 38.4	....
4	α Leonis..........	9	3 8.21	+ 0.02	+ 0.72	333 28 4.82	27.678	— 29.5	12.3	10 3	.....	.. ..	....
5	γ^1 Leonis..........	9	14 33.04	+ 0.02	+ 0.75	341 22 0.48	26.235	— 19.9	10.5	10 14	.....	.. ..	....
	November 5, L.												
6	δ Leonis..........	9	8 52.58	+ 0.07	+ 0.53	342 3 53.88	29.416	— 19.4	9.7	11 8	.....	.. ..	....
7	Moon II.........	9	23 11.49	+ 0.06	+ **0.50**	319 58	....	....	....	11 23 12.05	—62.10	.. ..	....
8	β Leonis..........	9	44 2.37	+ 0.06	+ 0.48	336 8 0.00	28.609	— 26.4	9.4	11 44	.....	.. ..	....
9	α Virginis..........	9	20 0.31	+ 0.06	+ 0.45	310 23 58.42	25.885	—1 9.3	10.3	13 20	.....	.. ..	....
10	η Bootis..........	9	49 59.29	+ 0.09	+ 0.47	339 53 54.55	29.081	— 21.5	8.6	13 49	.....	.. ..	....
	November 6, L.												
11	Sun I, N.........	9	43 23.31	+ 0.07	+ **0.45**	305 21 59.05	29.200	—1 22.4	**9.9**	14 43 23.83	+67.54	—15 39 28.9	....
12	Sun II, S........	9	45 38.39	+ 0.07	+ **0.45**	304 49 59.32	28.470	—1 24.0	**9.9**	14 45 38.91	—67.54	—16 11 50.1	....
13	α Coronæ Borealis .	9	30 30.30	+ 0.12	+ 0.44	348 3 53.50	27.621	— 12.3	10.3	15 30	.....	.. ..	....
14	β Herculis.........	9	25 58.61	+ 0.12	+ 0.41	342 43 55.08	26.848	— 18.1	10.4	16 25	.....	.. ..	....
15	α Ophiuchi........	9	30 21.59	+ 0.11	+ 0.48	333 39 56.22	26.546	— 28.8	9.7	17 30	.....	.. ..	....
16	Venus I, N	4	55 4.43	+ 0.07	+ **0.41**	294 47 59.50	28.428	—2 5.3	**9.9**	17 55 4.91	+ 0.74	—26 14 32.8	....
17	Venus II, S	5	55 5.35	+ 0.07	+ **0.41**	294 47 59.50	27.742	—2 5.3	**9.9**	17 55 5.83	— 0.18	—26 14 52.2	....
18	η Serpentis........	9	16 13.17	+ 0.10	+ 0.35	318 5 58.05	28.645	— 52.2	10.6	18 16	.....	.. ..	....
19	6 B. Ursæ Minoris s. p.	7	13 39.44	— 1.34	[+ 0.05]	52 45 55.55	26.085	+1 17.9	[10.8]	12 13	.....	.. ..	....
20	12 Ceti.............	9	25 2.84	+ 0.09	[+ 0.48]	316 31 59.80	27.484	— 56.1	[9.7]	0 25	.....	.. ..	....
21	ε Piscium..........	9	57 52.16	+ 0.10	[+ 0.48]	328 21 58.35	30.491	— 36.4	[11.4]	0 57	.....	.. ..	....
22	α Ursæ Minoris....	7	24 36.59	+ 2.18	[+ 1.88]	49 48 0.02	25.297	+1 10.3	[12.1]	1 24	.....	.. ..	....
	November 6, Y.												
23	β Leonis..........	..	.. ..	....	.....	336 5 57.30	32.897	— 26.3	9.3	11 44	.....	.. ..	....
24	Moon II.........	9	10 21.80	+ 0.07	+ **0.76**	315 42	....	. ..	....	12 10 22.63	—61.80	.. ..	....
25	η Bootis..........	9	49 59.08	+ 0.08	+ 0.70	339 53 54.25	29.133	— 21.3	10.3	13 49	.....	.. ..	....
26	α Bootis..........	9	11 9.29	+ 0.09	+ 0.80	340 43 54.78	25.425	— 20.3	11.7	14 11	.....	.. ..	....
	November 7, Y.												
27	Sun I, N.........	9	47 22.57	+ 0.08	+ **0.75**	305 3 57.52	29.465	—1 22.4	**10.0**	14 47 23.40	+67.58	—15 57 23.0	....
28	Sun II, S........	9	49 37.72	+ 0.08	+ **0.75**	304 31 57.35	28.732	—1 24.1	**10.0**	14 49 38.55	—67.57	—16 29 44.9	....
29	δ Ophiuchi........	9	9 10.72	+ 0.10	+ 0.67	317 35 55.42	26.452	— 52.5	10.3	16 9	.....	.. ..	....
30	α Scorpii..........	9	23 21.92	+ 0.08	+ 0.76	294 49 54.60	28.083	—2 3.4	9.1	16 23	.....	.. ..	....
31	α Ophiuchi........	9	30 21.24	+ 0.12	+ 0.81	333 39 57.42	26.472	— 28.3	9.3	17 30	.....	.. ..	....
32	Venus I, S.......	4	0 6.53	+ 0.09	+ **0.74**	294 45 54.55	28.408	—2 3.4	**10.0**	18 0 7.36	+ 0.61	—26 16 36.4	....
33	Venus II, N	5	0 7.29	+ 0.09	+ **0.74**	294 45 54.55	29.098	—2 3.3	**10.0**	18 0 8.12	— 0.15	—26 16 16.8	....
34	λ Sagittarii........	9	21 53.80	+ 0.10	+ 0.72	295 33 59.42	28.358	—1 59.0	9.7	18 21	.....	.. ..	....
	November 7, Br.												
35	β Leonis..........	9	44 2.18	+ 0.10	+ 0.68	336 7 51.48	28.898	— 25.8	10.1	11 44	.....	.. ..	....
36	α Canum Venat....	9	51 24.37	+ 0.12	+ 0.66	359 51 53.98	27.070	— 0.1	8.6	12 51	.....	.. ..	....
37	α Virginis.........	5	20 0.10	+ 0.09	+ 0.66	310 23 58.42	25.858	—1 8.3	10.7	13 20	.....	.. ..	....
38	η Bootis..........	8	49 59.11	+ 0.11	+ 0.65	339 53 58.18	28.970	— 21.2	9.9	13 49	.....	.. ..	....
39	α Bootis..........	9	11 9.38	+ 0.11	+ 0.70	340 43 56.65	25.292	— 20.3	10.1	14 11	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
3	9	11	29.80	40.1	38.0
	10	19	29.80	40.0	38.5
5	11	9	29.920	32.9	33.4
	11	44	....	....	36.1
	13	20	29.944	41.0	42.0
	13	50	....	....	43.0
6	14	46	29.920	44.5	44.7
	15	31	29.904	45.7	45.8
	16	26	....	....	46.0
	17	30	29.884	48.1	47.0
	17	55	....	...	47.1
	18	16	29.882	48.0	47.1
	0	14	....	....	41.3
	0	25	29.928	41.8	40.4
	1	25	29.924	40.8	39.8
	11	47	29.912	37.0	36.7
	12	10	....	....	39.7
	13	50	....	....	46.6
	14	5	29.870	48.2	....
	14	11	....	....	47.7
7	14	50	29.858	49.1	48.9
	16	9	29.828	52.9	52.9
	16	23	....	....	53.1
	17	30	29.800	55.2	54.1
	18	0	....	....	53.8
	18	22	29.778	55.1	53.8
	11	44	29.874	44.3	46.0
	13	20	29.908	49.9	48.4
	13	50	....	...	49.0
	14	11	29.908	50.8	49.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3.	Bisections at II, III, IV, V, VI.
4, 23.	Bisections at VI, VII.
11, 27.	Bisections at I, II, III.
12, 28.	Bisections at V, VI, VII.
16, 33.	Bisections at II, VI.
17, 32.	Bisections at I, VII.
19.	Bisections at c_5, c_4, c_3, c_2, c_1.
22.	Bisections at c_1, c_2, c_3, c_4, c_5.
25, 29, 30, 36.	Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+29 17.6	+15 22.2	...	+44 39.8
11	+ 7.3	—16 10.6	...	—16 3.3
12	+ 7.3	+16 10.6	...	+16 17.9
16	+ 9.0	— 9.7	...	— 0.7
17	+ 9.0	+ 9.7	0.0	+ 18.7
27	+ 7.3	—16 10.9	...	—16 3.6
28	+ 7.3	+16 11.0	...	+16 18.3
32	+ 9.0	+ 9.8	0.0	+ 18.8
33	+ 9.0	— 9.8	...	— 0.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	November 8, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, S	9	51 22.76	+ 0.09	+ **0.67**	304 13 58.22	29.418	−1 24.9	**10.0**	14 51 23.52	+67.73	−16 47 26.1	....
2	Sun II, N	9	53 38.22	+ 0.09	+ **0.67**	304 45 55.60	30.348	−1 23.2	**10.0**	14 53 38.98	−67.73	−16 14 59.7	....
3	μ Herculis	6	42 35.54	+ 0.11	+ 0.69	348 47 51.92	27.910	− 11.5	10.8	17 42	.....	.. ..	....
4	η Serpentis	4	16 12.88	+ 0.10	+ 0.62	318 6	......	....	....	18 16	.....	.. ..	....
5	α Lyræ	9	33 35.51	+ 0.12	+ 0.70	359 41 54.92	29.305	− 0.2	9.2	18 33	.....	.. ..	...
6	β Lyræ	9	46 26.20	+ 0.11	+ 0.66	354 15 51.60	28.355	− 5.8	10.7	18 46	.....	.. ..	....
7	6 B. Ursæ Minoris s. p.	8	13 38.71	+ 0.23	[− 0.03]	52 45 54.70	26.156	+1 18.2	[11.7]	12 13	.....	.. ..	....
8	π Andromedæ	9	31 39.53	+ 0.08	[+ 0.75]	354 11 55.50	27.647	− 6.0	[9.8]	0 31	.....	.. ..	....
9	β Andromedæ	9	4 15.56	+ 0.08	[+ 0.76]	356 5 56.82	30.185	− 4.0	[11.3]	1 4	.....	.. ..	....
10	α Ursæ Minoris	9	24 38.33	− 0.11	[+ 1.89]	49 47 53.80	25.537	+1 10.6	[12.4]	1 24	.....	.. ..	....
	November 10, Y.												
11	η Bootis	4	49 58.98	+ 0.05	+ 0.89	339 53 55.30	29.095	− 21.3	11.4	13 49	.....	.. ..	....
12	α Bootis	6	11 9.22	+ 0.06	+ 0.94	340 43 51.92	25.558	− 20.3	13.5	14 11	.....	.. ..	....
	November 11, Y.												
13	Sun I, S	9	3 28.40	+ 0.07	+ **0.94**	303 23 56.02	27.085	−1 27.2	**12.2**	15 3 29.41	+67.96	−17 38 39.3	....
14	Sun II, N	9	5 44.32	+ 0.07	+ **0.94**	303 56 0.62	27.618	−1 25.5	**12.2**	15 5 45.33	−67.96	−17 6 16.9	....
15	α Serpentis	9	39 24.21	+ 0.09	+ 0.98	327 45 58.12	26.998	− 36.2	12.2	15 39	.....	.. ..	....
16	α Scorpii	9	23 21.65	+ 0.09	+ 1.03	294 50	......	....	....	16 23	.....	.. ..	....
17	η Ophiuchi	8	4 43.44	+ 0.11	+ 0.89	305 25 55.70	28.085	−1 19.6	13.2	17 4	.....	.. ..	....
18	α Ophiuchi	9	30 21.01	+ 0.13	+ 1.00	333 39 58.35	26.492	− 28.1	11.8	17 30	.....	.. ..	....
19	Venus I, S	4	20 8.86	+ 0.12	+ **1.02**	294 45 46.55	28.862	−2 2.2	**12.2**	18 20 10.00	+ 0.64	−26 16 32.4	....
20	Venus II, N	5	20 9.63	+ 0.12	+ **1.02**	294 45 46.55	29.555	−2 2.2	**12.2**	18 20 10.77	− 0.13	−26 16 12.9	....
21	α Lyræ	9	33 35.07	+ 0.16	+ 1.05	359 41 44.80	29.701	− 0.2	10.9	18 33	.....	.. ..	....
	November 12, L.												
22	η Bootis	..	.. ..	....	.....	339 53 57.82	29.020	− 21.4	11.8	13 49	.....	.. ..	....
23	α Bootis	9	11 9.61	+ 0.05	+ 0.59	340 41 57.52	29.455	− 20.4	10.7	14 11	.....	.. ..	....
24	ε Bootis	9	40 40.37	+ 0.05	+ 0.59	348 29 54.60	28.635	− 11.8	11.5	14 40	.....	.. ..	....
	November 13, L.												
25	Sun I, S	9	11 36.74	+ 0.08	+ **0.59**	302 49 56.55	29.812	−1 29.6	**11.7**	15 11 37.41	+68.43	−18 11 22.9	....
26	Sun II, N	9	13 53.61	+ 0.08	+ **0.59**	303 21 59.90	30.512	−1 27.7	**11.7**	15 13 54.28	−68.44	−17 38 56.9	....
27	β Herculis	9	25 58.51	+ 0.05	+ 0.57	342 43 57.22	26.811	− 17.9	13.1	16 25	.....	.. ..	....
28	α^1 Herculis	9	10 9.00	+ 0.06	+ 0.61	335 32	......	....	....	17 10	.....	.. ..	....
29	α Ophiuchi	4	30 21.47	+ 0.06	+ 0.60	333 39 57.90	26.521	− 28.5	11.8	17 30	.....	.. ..	....
30	η Serpentis	9	16 12.92	+ 0.07	+ 0.57	318 5 57.75	28.690	− 51.7	12.6	18 16	.....	.. ..	....
31	Venus I, N	4	30 5.66	+ 0.08	+ **0.60**	294 49 56.60	29.582	−2 3.8	**11.7**	18 30 6.34	+ 0.90	−26 12 3.2	....
32	Venus II, S	5	30 6.73	+ 0.08	+ **0.60**	294 49 56.60	28.865	−2 3.8	**11.7**	18 30 7.41	− 0.17	−26 12 23.4	....
33	α Lyræ	9	33 35.60	+ 0.04	+ 0.61	359 41 51.32	29.450	− 0.2	10.7	18 33	.....	.. ..	....
	November 13, Y.												
34	ε Virginis	9	57 16.37	+ 0.05	+ 0.62	332 30 0.70	28.796	− 30.1	12.2	12 57	.....	.. ..	....
35	α Virginis	9	20 0.27	+ 0.07	+ 0.63	310 24 6.32	25.615	−1 7.8	12.6	13 20	.....	.. ..	....
	November 14, Y.												
36	Sun I, N	9	15 42.27	+ 0.07	+ **0.64**	303 8 7.62	26.380	−1 27.9	**13.2**	15 15 42.98	+68.36	−17 54 49.4	....
37	Sun II, S	9	17 58.99	+ 0.07	+ **0.64**	302 36 5.70	25.563	−1 29.7	**13.2**	15 17 59.70	−68.36	−18 27 15.6	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
8 14 54	29.908	51.1	50.1
17 43	29.920	49.0	46.6
18 5	29.922	48.9	46.8
18 34	......	....	46.5
18 46	29.922	47.9	46.0
0 22	29.972	40.8	39.6
0 32	......	....	39.1
1 4	29.970	39.9	39.0
1 36	29.964	39.1	37.6
10 13 50	30.036	47.0	48.4
14 11	......	....	50.2
11 15 5	29.966	50.5	53.9
15 39	29.939	52.7	56.0
16 47	29.906	59.0	.. .
17 5	......	....	59.8
17 30	......	....	60.0
18 20	......	...	59.6
18 34	29.854	60.9	59.3
12 13 50	29.574	41.1	40.4
14 11	......	....	42.1
14 41	29.554	43.7	43.2
13 15 13	29.55	44.6	44.2
16 26	29.524	46.2	45.9
17 30	29.522	48.1	46.2
18 16	......	....	46.5
18 34	29.524	48.3	46.2
12 57	29.424	42.5	42.7
13 20	......	....	44.0
14 15 18	29.404	45.9	45.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 13, 25, 36.	Bisections at I, II, III.
2, 14, 26, 37.	Bisections at V, VI, VII.
6, 8, 33.	Bisections at II, VI, VII.
7.	Bisections at c_5, c_4, c_3, c_2, c_1.
10.	Bisections at c_1, c_2, c_3, c_4, c_5.
11.	Bisection at VI.
12, 22.	Bisections at I, II.
15, 18.	Bisections at VI, VII.
17.	Bisection at II.
19, 32.	Bisections at I, VII.
20, 31.	Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 7.4	+16 13.1	...	+16 20.5
2	+ 7.3	−16 13.2	...	−16 5.9
13	+ 7.4	+16 11.2	...	+16 18.6
14	+ 7.4	−16 11.2	...	−16 3.8
19	+ 9.3	+ 9.8	− 0.1	+ 19.0
20	+ 9.3	− 9.8	...	− 0.5
25	+ 7.5	+16 13.0	...	+16 20.5
26	+ 7.4	−16 12.9	...	−16 5.5
31	+ 9.5	− 10.1	...	− 0.6
32	+ 9.5	+ 10.1	0.0	+ 19.6
36	+ 7.5	−16 13.1	...	−16 5.6
37	+ 7.5	+16 13.1	...	+16 20.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Ophiuchi	9	30 21.44	+ 0.05	+ 0.64	333 40 2.12	26.418	— 28.6	13.2	17 30	.....	.. ..	....
2	μ Herculis	9	42 35.60	+ 0.04	+ 0.64	348 47 59.92	27.710	— 11.4	14.4	17 42	.....	.. ..	....
3	ο Herculis	..	.. ..	....	.....	349 46 2.80	28.157	— 10.3	14.4	18 3	.....	.. ..	...
4	Venus I, N	9	35 2.34	+ 0.08	+ **0.65**	294 54 1.92	27.568	—2 3.3	**14.4**	18 35 3.07	+ 0.77	—26 8 57.3	....
5	Venus S.	..	.. ..	....	.....	294 54 1.92	26.905	—2 3.3	**14.4**	.. ..	.....	—26 9 16.3	....
6	α Aquilæ	9	45 59.04	+ 0.05	+ 0.67	329 38 6.30	28.001	— 33.8	15.1	19 45	.....	.. ..	....
7	6 B. Ursæ Minoris s. p.	5	13 38.20	+ 1.74	[+ 1.46]	52 45 58.70	26.262	+1 17.3	[16.0]	0 13	.....	.. ..	....
8	12 Ceti	9	25 2.79	+ 0.07	[+ 0.50]	316 32 28.15	26.623	— 55.5	[14.7]	0 25	.....	.. ..	....
9	ε Piscium	9	57 52.13	+ 0.06	[+ 0.51]	328 22 4.35	30.412	— 36.1	[15.6]	0 57	.....	.. ..	....
10	α Ursæ Minoris	5	24 40.30	— 2.38	[+ 0.77]	49 48 6.92	25.341	+1 9.7	[16.9]	1 24	.....	.. ..	....
	November 15, U.												
11	ε Piscium	9	57 53.48	+ 0.02	[— 0.80]	328 24	......	....	....	0 57	.....	.. ..	....
12	f Piscium	9	12 46.71	+ 0.04	[— 0.80]	324 8	......	....	....	1 12	.....	.. ..	....
13	α Ursæ Minoris	8	24 45.02	— 5.79	[— 0.95]	49 48	......	....	....	1 24	.....	.. ..	....
	November 15, L.												
14	α Canum Venat	9	51 26.26	— 0.04	— 0.89	359 51 59.52	27.026	— 0.1	15.3	12 51	.....	.. ..	....
15	α Virginis	9	20 1.87	— 0.01	— 0.85	310 24 5.80	25.818	—1 9.4	16.5	13 20	.....	.. ..	....
16	α Bootis	9	11 11.28	— 0.02	— 0.97	340 41 59.40	29.486	— 20.5	14.1	14 11	.....	.. ..	....
17	Mercury II, C.	9	14 37.07	— 0.01	— **0.90**	310 0 1.32	28.500	—1 9.9	**15.4**	14 14 36.16	— 0.26	—11 1 39.2	....
18	ε Bootis	9	40 41.94	— 0.03	— 0.87	348 29 58.58	28.622	— 11.9	15.7	14 40	.....	.. ..	....
	November 19, Br.												
19	α Aquarii	9	0 46.70	+ 0.07	— 1.39	320 13 58.85	28.004	— 49.3	16.7	22 0	.....	.. ..	....
20	θ Aquarii	9	11 41.46	+ 0.08	— 1.43	312 43 58.48	31.522	—1 4.0	15.8	22 11	.....	.. ..	....
21	Moon I, S	9	18 2.42	+ 0.08	— **1.37**	314 53 55.35	28.725	— 59.4	**17.0**	22 18 1.13	+65.50	— 6 7 29.9	....
22	η Aquarii	9	30 21.02	+ 0.07	— 1.35	320 23 53.20	29.068	— 49.1	18.0	22 30	.....	.. ..	....
23	ζ Pegasi	9	36 36.32	+ 0.06	— 1.33	331 19 56.25	29.622	— 32.4	17.5	22 36	.....	.. ..	....
	November 19, U.												
24	f Piscium	9	12 47.24	+ 0.08	[— 1.39]	324 8	......	....	....	1 12	.....	.. ..	....
25	α Ursæ Minoris	9	24 42.58	— 4.12	[— 2.27]	49 48	......	....	....	1 24	.....	.. ..	....
	November 19, L.												
26	α Canum Venat	9	51 26.76	+ 0.05	— 1.38	359 52 3.78	26.781	— 0.1	13.8	12 51	.....	.. ..	....
27	α Virginis	9	20 2.37	+ 0.08	— 1.35	310 24 7.05	25.759	—1 11.1	14.8	13 20	.....	.. ..	....
28	η Bootis	9	50 1.41	+ 0.06	— 1.41	339 54 2.22	28.902	— 22.1	14.0	13 50	.....	.. ..	....
29	α Bootis	9	11 11.70	+ 0.06	— 1.41	340 42 2.72	29.300	— 21.1	12.5	14 11	.....	.. ..	....
30	Mercury C, C	9	26 1.97	+ 0.08	— **1.39**	309 6 5.10	25.991	—1 14.0	**13.5**	14 26 0.66	— 0.08	—11 56 49.1	....
	November 20, L.												
31	Sun I, N	9	40 33.61	+ 0.09	— **1.38**	301 37 58.92	30.560	—1 36.6	**13.5**	15 40 32.32	+69.14	—19 23 8.0	....
32	Sun II, S	9	42 51.89	+ 0.09	— **1.38**	301 6 3.52	29.447	—1 38.7	**13.5**	15 42 50.60	—69.14	—19 55 36.5	....
33	β Herculis	9	26 0.48	+ 0.06	— 1.41	342 43 56.50	26.822	— 18.5	13.7	16 25	.....	.. ..	....
34	α Ophiuchi	9	30 23.46	+ 0.07	— 1.42	333 39 58.88	26.518	— 29.4	12.9	17 30	.....	.. ..	....
35	α Lyræ	9	33 37.43	+ 0.05	— 1.34	359 41 56.52	29.290	— 0.2	12.6	18 33	.....	.. ..	....
36	ζ Aquilæ	9	0 55.00	+ 0.07	— 1.39	334 44 0.38	28.000	— 28.0	13.0	19 0	.....	.. ..	....
37	Venus I, N	4	4 17.48	+ 0.09	— **1.37**	295 26 1.62	29.000	—2 4.0	**13.5**	19 4 16.20	+ 0.90	—25 36 16.7	....
38	Venus II, S	5	4 18.51	+ 0.09	— **1.37**	295 26 1.62	28.240	—2 4.0	**13.5**	19 4 17.23	— 0.13	—25 36 38.2	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
14	17	30	29.396	45.2	43.9
	17	43	......	....	43.3
	18	4	......	....	45.2
	18	19	29.395	46.2	....
	18	35	......	....	45.2
	19	46	29.409	45.6	43.7
	0	14	29.426	38.9	36.9
	1	25	29.430	37.6	35.9
15	12	51	29.658	30.4	33.1
	13	20	......	....	36.9
	14	11	29.676	39.0	39.6
	14	41	......	....	40.9
19	22	1	29.890	40.5	39.1
	22	12	......	....	38.9
	22	18	......	....	38.8
	22	37	29.896	39.5	38.1
	12	51	30.012	29.3	29.8
	13	20	......	....	30.8
	13	50	30.026	33.0	32.1
	14	11	.....	....	33.0
	14	26	30.034	34.2	33.9
20	15	43	30.008	36.8	37.2
	16	26	30.002	38.2	38.4
	17	30	30.000	40.2	39.7
	18	34	......	....	40.3
	19	4	29.990	41.0	40.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3. Bisections at I, II, VII.
4, 38. Bisections at I, VII.
5, 37. Bisections at II, VI.
7. Bisections at c_5, c_4, c_3, c_2, c_1.
8, 20. Bisections at II, VI, VII.
10. Bisections at c_1, c_2, c_3, c_4, c_5.
18, 36. Bisections at I, II.
21. Bisections at II, III, IV, V, VI.
31. Bisections at I, II, III.
32. Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 9.6	— 9.5	0.0	+ 0.1
5	+ 9.6	+ 9.5	...	+ 19.1
17	+ 7.6	....	+ 0.8	+ 8.4
21	+40 36.2	+15 44.2	...	+56 20.4
30	+ 6.9	....	+ 0.5	+ 7.4
31	+ 7.6	—16 14.2	...	—16 6.6
32	+ 7.6	+16 14.3	...	+16 21.9
37	+ 10.1	— 10.8	+ 0.1	— 0.6
38	+ 10.1	+ 10.8	...	+ 20.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Aquilæ..........	9	20 34.13	+ 0.07	— 1.31	323 56 1.70	29.634	— 43.2	14.1	19 20	.....	.. ..	....
2	λ Aquarii..........	9	47 31.94	+ 0.11	— 1.39	312 56 3.25	27.501	—1 4.3	13.9	22 47	.....	.. ..	....
3	α Pegasi	9	59 54.73	+ 0.10	— 1.35	335 41 55.18	28.259	— 27.0	12.6	22 59	.....	.. ..	....
4	φ Aquarii..........	9	9 16.76	+ 0.11	— 1.28	314 26	......	....	....	23 9	.....	.. ..	....
5	Moon I, S	9	11 2.96	+ 0.11	— **1.34**	319 41 58.50	25.838	— 50.8	**13.5**	23 11 1.72	+66.37	—1 20 36.9	....
6	θ Piscium	9	23 1.87	+ 0.10	— 1.36	326 52 1.20	27.866	— 39.1	12.9	23 23	.....	.. ..	....
7	ι Piscium	9	34 56.68	+ 0.10	— 1.34	326 8 0.55	26.425	— 40.3	14.7	23 34	.....	.. ..	....
	November 20, U.												
8	ε Piscium	9	57 53.89	+ 0.09	[— 1.31]	328 24	......	....	....	0 57	.....	.. ..	....
9	f Piscium	9	12 47.14	+ 0.10	[— 1.31]	324 8	......	....	....	1 12	.....	.. ..	....
10	α Ursæ Minoris....	9	24 40.06	— 3.18	[— 1.21]	49 48	......	....	....	1 24	.....	.. ..	....
	November 21, Y.												
11	ι Piscium	9	34 56.36	+ 0.17	— 1.10	326 8 6.55	26.199	— 40.3	14.3	23 34	.....	.. ..	....
12	ω Piscium	9	54 18.57	+ 0.17	— 1.05	327 20 5.58	29.379	— 38.4	13.7	23 54	.....	.. ..	....
13	Moon I, S	9	5 52.44	+ 0.17	— **1.07**	324 40 5.85	27.215	— 42.5	**14.5**	0 5 51.54	+67.75	+ 3 38 17.0	....
14	44 Piscium	9	20 24.71	+ 0.17	— 1.08	322 26 3.15	26.706	— 46.2	15.5	0 20	.....	.. ..	....
15	δ Piscium.........	9	43 37.94	+ 0.16	— 1.04	328 4 6.52	28.985	— 37.4	14.4	0 43	.....	.. ..	....
	November 21, Br.										.....	.. ..	....
16	α Virginis.........	9	20 2.11	+ 0.05	— 1.02	310 24 3.05	25.872	—1 11.4	14.0	13 20	.....	.. ..	....
17	η Bootis...........	9	50 1.13	+ 0.05	— 1.07	339 54 0.28	28.911	— 22.1	12.8	13 50	.....	.. ..	....
18	α Bootis...........	9	11 11.44	+ 0.05	— 1.10	340 41 59.42	29.370	— 21.0	11.8	14 11	.....	.. ..	....
19	ρ Bootis...........	9	27 36.07	+ 0.05	— 1.08	351 49 58.70	25.870	— 8.6	12.7	14 27	.....	.. ..	....
20	Mercury II, C....	9	34 0.38	+ 0.05	— **1.07**	308 20 6.68	29.758	—1 15.6	**12.8**	14 33 59.36	— 0.22	—12 41 1.0	....
	November 22, Br.												
21	Sun I, N	9	48 56.32	+ 0.06	— **1.06**	301 12 8.20	28.870	—1 37.6	**12.8**	15 48 55.32	+69.38	—19 49 47.1	....
22	Sun II, S.........	9	51 15.08	+ 0.06	— **1.06**	300 40 7.70	27.990	—1 39.7	**12.8**	15 51 14.08	—69.38	—20 22 14.1	....
23	α Ophiuchi	9	30 23.10	+ 0.08	— 1.07	333 40 1.02	26.385	— 29.0	12.1	17 30	.....	.. ..	....
24	η Serpentis........	9	16 14.46	+ 0.08	— 1.04	318 5 59.78	28.652	— 52.4	13.6	18 16	.....	.. ..	....
25	γ Lyræ	9	55 16.73	+ 0.10	— 1.06	353 33 57.38	28.954	— 6.5	12.5	18 55	.....	.. ..	....
26	ζ Aquilæ..........	9	0 54.61	+ 0.09	— 1.04	334 43 58.02	29.050	— 27.6	12.9	19 0	.....	.. ..	....
27	Venus I, N	9	13 49.16	+ 0.07	— **1.05**	295 42 2.18	28.922	—2 0.7	**12.8**	19 13 48.18	+ 0.83	—25 20 14.2	....
28	Venus S..........	..	.. ..	....	....	295 42 2.18	28.145	—2 0.7	**12.8**	.. ..	.....	—25 20 36.6	....
29	β Cygni	9	26 46.46	+ 0.10	— 1.05	348 45 57.48	28.989	— 11.6	13.2	19 26	.....	.. ..	....
30	δ Piscium	9	43 37.91	+ 0.12	— 0.98	328 3 57.98	29.256	— 36.9	14.2	0 43	.....	.. ..	....
31	μ Andromedæ	9	51 21.38	+ 0.08	— 0.98	358 57 51.40	30.471	— 1.0	13.6	0 51	.....	.. ..	....
32	Moon I, S	9	3 21.36	+ 0.12	— **1.00**	329 31 57.30	29.427	— 34.9	**13.8**	1 3 20.48	+69.55	+ 8 31 19.7	....
33	f Piscium	9	12 46.78	+ 0.12	— 0.98	324 7 55.15	26.984	— 43.0	14.6	1 12	.....	.. ..	....
34	θ¹ Ceti.............	9	19 9.64	+ 0.14	— 1.05	312 19 54.78	29.182	—1 5.2	12.6	1 19	.....	.. ..	....
	November 24, Y.												
35	η Bootis...........	9	50 0.62	+ 0.11	— 0.56	339 54 0.90	28.823	— 21.1	12.7	13 50	.....	.. ..	....
36	ε Bootis...........	9	40 41.63	+ 0.10	— 0.57	348 30 5.10	28.198	— 11.7	13.1	14 40	.....	.. ..	....
37	Mercury II, C....	9	47 54.80	+ 0.15	— **0.56**	307 2 5.25	29.376	—1 16.4	**13.1**	14 47 54.39	— 0.21	—13 59 14.4	....
38	α Coronæ Borealis .	..	.. ..	....	.....	348 3 58.55	27.372	— 12.2	13.6	15 30	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
20 19 21	......	....	40.1
22 48	30.004	36.8	36.1
23 35	30.012	36.4	35.1
21 23 35	30.076	36.3	36.2
0 6	......	....	30.0
0 44	30.074	36.1	....
13 20	30.024	29.6	29.1
13 50	30.024	32.6	32.0
14 11	30.018	35.0	34.5
14 28	......	....	35.0
14 34	30.016	36.6	35.7
22 15 50	29.992	39.9	40.1
17 39	29.946	45.4	45.1
18 16	......	....	46.2
18 55	......	....	46.4
19 1	29.928	48.1	46.4
19 14	29.926	48.1	46.4
19 27	29.930	47.9	46.1
0 44	29.914	39.0	39.0
0 51	......	....	38.8
1 3	......	....	38.6
1 13	......	....	38.0
1 16	29.922	38.8	38.0
24 13 50	29.462	43.6	43.5
14 41	......	....	43.9
14 48	29.472	45.1	44.3
15 31	......	....	45.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 32. Bisections at II, III, IV, V, VI.
13. Bisections at III, IV, V.
19, 34. Bisections at II, VI, VII.
21. Bisections at I, II, III.
22. Bisections at V, VI, VII.
27. Bisections at I, VII.
28. Bisections at II, VI.
35. Bisections at I, VI, VII.
36. Bisections at II, VII.
38. Bisections at VI, VII.

35 to 38. Two microscopes read.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+37 40.3	+15 59.7	...	+53 40.0
13	+34 11.0	+16 15.1	...	+50 26.1
20	+ 6.6	....	+ 0.4	+ 7.0
21	+ 7.6	—16 13.5	...	—16 5.9
22	+ 7.7	+16 13.4	...	+16 21.1
27	+ 10.3	— 11.2	0.0	— 0.9
28	+ 10.3	+ 11.2	...	+ 21.5
32	+30 20.6	+16 29.0	...	+46 49.6
37	+ 6.4	....	+ 0.3	+ 6.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	November 25, Y.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, S	6	1 35.88	+ 0.16	— **0.55**	300 4 0.95	25.687	—1 39.4	**13.1**	16 1 35.49	+69.78	—20 59 27.1	....
2	Sun II, N........	7	3 55.45	+ 0.16	— **0.55**	300 36 0.60	26.572	—1 37.3	**13.1**	16 3 55.06	—69.79	—20 26 59.5	....
3	α Lyræ	4	33 36.52	+ 0.08	— 0.52	359 41 56.70	29.229	— 0.2	12.3	18 33	.....	.. ..	....
4	σ Sagittarii........	4	49 10.87	+ 0.16	— 0.53	294 38 4.45	27.367	—2 5.2	13.8	18 49	.....	.. ..	....
5	γ Lyræ	9	55 16.19	+ 0.10	— 0.55	353 33 46.40	29.322	— 6.5	12.6	18 55	.....	.. ..	....
6	ζ Aquilæ..........	9	0 54.02	+ 0.12	— 0.50	334 44 2.60	29.025	— 27.2	[17.5]	19 0	.....	.. ..	....
7	δ Aquilæ..........	9	20 33.22	+ 0.13	— 0.50	323 56 4.10	29.484	— 42.0	13.9	19 20	.....	.. ..	....
8	Venus I, S.......	9	27 52.58	+ 0.16	— **0.51**	296 10 0.65	29.515	—1 56.9	**13.1**	19 27 52.23	+ 0.85	—24 51 55.4	....
9	Venus N	..	.. ..	....	.....	296 10 0.65	30.290	—1 56.8	**13.1**	.. ..	.....	—24 51 33.4	....
	November 25, U.												
10	α Ursæ Minoris....	6	24 37.57	— 3.93	[— 0.13]	49 48	......	....	....	1 24	.....	.. ..	....
11	β Trianguli........	9	3 45.09	+ 0.12	[— 0.61]	355 32	......	....	....	2 3	.....	.. ..	....
	November 25, Br.												
12	α Bootis...........	9	11 10.92	+ 0.09	— 0.55	340 42 2.00	29.305	— 20.7	13.9	14 11	.....	.. ..	....
13	α Serpentis........	3	39 25.92	+ 0.11	— 0.64	327 46 3.48	26.848	— 37.3	14.4	15 39	.....	.. ..	....
	November 26, Br.												
14	Sun S...........	..	.. ..	....	....	299 52 9.80	26.198	—1 42.6	**13.8**	.. ..	.....	—21 11 7.6	....
15	Sun II, N........	9	8 10.49	+ 0.15	— **0.58**	300 24 11.98	27.028	—1 40.4	**13.8**	16 8 10.06	—69.77	—20 38 41.0	....
16	α Lyræ	9	33 36.58	+ 0.05	— 0.56	359 41 59.30	29.130	— 0.2	12.3	18 33	.....	.. ..	....
17	β Lyræ	9	46 27.21	+ 0.06	— 0.55	354 15 59.00	28.085	— 5.9	13.6	18 46	.....	.. ..	....
18	ζ Aquilæ..........	3	0 54.12	+ 0.10	— 0.59	334 44 0.18	29.000	— 28.0	13.8	19 0	.....	.. ..	....
19	γ Aquilæ..........	9	41 35.92	+ 0.10	— 0.50	331 23 54.85	28.091	— 32.4	14.5	19 41	.....	.. ..	....
	November 26, U.												
20	f Piscium	9	12 46.27	+ 0.15	[— 0.53]	324 8	......	....	....	1 12	.....	.. ..	....
21	α Ursæ Minoris....	9	24 38.89	— 7.26	[+ 1.45]	49 48	......	....	....	1 24	.....	.. ..	....
	November 26, Br.												
22	ι Aurigæ..........	9	50 39.16	+ 0.06	— 0.46	354 1 54.38	26.956	— 6.3	12.7	4 50	.....	.. ..	....
23	11 Orionis..........	9	59 0.20	+ 0.13	— 0.40	336 17 54.98	26.439	— 26.5	13.7	4 58	.....	.. ..	....
24	τ Orionis..........	9	12 52.80	+ 0.21	— 0.49	314 3 57.85	29.586	—1 2.2	14.3	5 12	.....	.. ..	....
25	Moon II, S	9	24 26.43	+ 0.12	— **0.45**	340 19 58.30	29.269	— 21.5	**13.8**	5 24 26.10	—74.14	+19 19 29.6	....
26	ε Orionis..........	9	31 16.31	+ 0.19	— 0.43	319 45 58.65	27.376	— 51.0	15.0	5 31	.....	.. ..	....
27	Neptune C, C....	9	3 20.27	+ 0.11	— **0.47**	343 15 54.55	28.226	— 18.1	**13.8**	6 3 19.91	.....	+22 14 59.3	....
28	η Geminorum	9	8 59.83	+ 0.10	— 0.45	343 33 50.40	26.293	— 17.8	14.1	6 8	.....	.. ..	....
29	μ Geminorum	9	17 4.01	+ 0.10	— 0.49	343 35 55.15	25.518	— 17.8	13.6	6 17	.....	.. ..	....
30	ν Geminorum	9	23 10.72	+ 0.11	— 0.53	341 17 54.32	26.956	— 20.4	14.2	6 23	.....	.. ..	....
31	γ Geminorum	9	32 4.96	+ 0.13	— 0.46	337 29 55.52	28.149	— 25.0	12.9	6 32	.....	.. ..	....
	November 26, L.												
32	η Bootis...........	9	50 0.63	+ 0.10	— 0.52	339 53 54.58	29.111	— 22.1	14.1	13 50	.....	.. ..	....
33	α Bootis...........	9	11 10.99	+ 0.09	— 0.60	340 41 53.22	29.589	— 21.1	13.2	14 11	.....	.. ..	....
34	ρ Bootis...........	9	27 35.60	+ 0.06	— 0.53	351 49 50.88	26.158	— 8.6	14.5	14 27	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
25 16 4	29.478	46.6	45.2
18 34	29.601	47.8	46.3
18 49	......	....	46.4
18 55	......	....	46.4
19 1	......	....	46.3
19 21	......	....	46.0
19 28	29.532	47.0	45.8
14 11	29.758	37.8	36.6
15 39	29.744	39.0	37.3
26 16 8	29.744	39.9	38.1
18 34	29.754	38.6	36.2
18 46	29.752	38.9	36.3
19 1	29.764	39.0	36.8
19 42	29.780	38.5	36.1
4 51	29.868	30.8	30.1
4 59	......	....	30.0
5 13	......	....	30.0
5 24	29.858	30.7	30.0
5 31	......	...	30.0
6 3	......	....	30.0
6 9	......	....	30.0
6 17	......	....	30.0
6 23	......	....	30.0
6 32	29.876	30.1	30.0
13 50	29.950	31.0	31.2
14 11	......	....	32.0
14 28	......	....	32.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1. Bisections at I, II, III.
2, 15. Bisections at V, VI, VII.
4. Bisections at I, II, VII.
6, 13. Bisections at I, II.
8. Bisections at I, VII.
9. Bisections at II, VI.
12. Bisections at I, II, VI.
14. Bisections at II, III.
17, 28. Bisections at II, VI, VII.
18. Bisection at II.
25. Bisections at II, III, IV, V, VI.

1 to 9. Two microscopes read.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 7.7	+16 13.8	...	+16 21.5
2	+ 7.7	—16 13.8	...	—16 6.1
8	+ 10.6	+ 11.0	...	+ 21.6
9	+ 10.6	— 11.0	0.0	— 0.4
14	+ 7.7	+16 13.3	...	+16 21.0
15	+ 7.7	—16 13.3	...	—16 5.6
25	+20 14.3	+16 38.9	...	+36 53.2
27	+ 0.1	....	...	+ 0.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Bootis...........	9	40 41.66	+ 0.07	− 0.53	348 29 55.22	28.565	− 12.2	13.8	14 40	.....	.. ..	....
2	Mercury C, C....	9	58 9.78	+ 0.18	− **0.54**	306 6 1.80	28.410	−1 22.3	**14.0**	14 58 9.42	− 0.04	−14 55 52.2	....
	November 27, L.												
3	Sun I, S.........	9	10 6.38	+ 0.20	− **0.53**	299 39 58.92	28.197	−1 44.9	**14.3**	16 10 6.05	+70.03	−21 22 24.4	....
4	Sun II, N........	9	12 26.43	+ 0.20	− **0.53**	300 11 58.85	29.223	−1 42.6	**14.3**	16 12 26.10	−70.02	−20 49 52.3	....
5	γ Lyræ...........	9	55 16.16	+ 0.05	− 0.49	353 33 55.12	29.068	− 6.7	14.4	18 55	.....	.. ..	....
6	γ Aquilæ..........	9	41 35.94	+ 0.12	− 0.55	331 23 52.48	28.220	− 32.6	15.6	19 41	.....	.. ..	....
7	α Aquilæ..........	9	46 0.00	+ 0.12	− 0.51	329 37 54.80	28.399	− 35.0	15.1	19 45	.....	.. ..	....
	November 27, U.												
8	β Andromedæ	9	4 16.66	+ 0.04	[− 0.42]	356 6	......	....	....	1 4	.....	.. ..	....
9	α Ursæ Minoris....	9	24 39.83	− 8.06	[+ 0.83]	49 48	......	....	....	1 24	.....	.. ..	....
10	α Ursæ Minoris S. P.	9	24 26.06	+ 5.72	[+ 0.55]	52 12	......	....	....	1 24	.....	.. ..	....
11	η Bootis...........	9	50 0.59	+ 0.08	[− 0.44]	339 54	......	....	....	13 50	....	.. ..	....
12	α Bootis...........	9	11 10.85	+ 0.08	[− 0.43]	340 42	......	....	....	14 11	.....	.. ..	....
	November 28, Y.												
13	θ Aurigæ..........	9	53 4.61	+ 0.01	− 0.20	358 13 56.05	25.950	− 1.8	13.3	5 53	.....	.. ..	....
14	Neptune C, C....	9	3 7.18	+ 0.10	− **0.24**	343 15 55.12	28.192	− 18.4	**14.2**	6 3 7.04	.....	+22 14 58.4	....
15	η Geminorum	7	8 59.67	+ 0.09	− 0.23	343 33 55.75	26.105	− 18.1	14.0	6 8	.....	.. ..	....
16	ν Geminorum	9	23 10.53	+ 0.10	− 0.28	341 17 59.98	26.805	− 20.8	15.2	6 23	.....	.. ..	....
17	γ Geminorum	9	32 4.81	+ 0.12	− 0.25	337 30 0.02	28.049	− 25.4	14.3	6 32	.....	.. ..	....
18	δ Geminorum	9	14 17.90	+ 0.10	− 0.23	343 10 1.08	29.376	− 18.6	14.6	7 14	.....	.. ..	....
19	β Canis Minoris....	5	21 51.60	+ 0.16	− 0.16	329 29 59.05	29.050	− 36.2	16.4	7 21	.....	.. ..	....
20	Moon II, S.......	9	32 58.18	+ 0.12	− **0.21**	337 12 4.38	26.693	− 25.8	**15.4**	7 32 58.09	−70.62	+16 10 16.4	....
21	β Geminorum	9	39 20.77	+ 0.06	− 0.20	349 16 1.82	29.089	− 11.6	15.9	7 39	.....	.. ..	....
22	ω¹ Cancri...........	9	55 1.63	+ 0.08	− 0.27	346 40 3.38	28.883	− 14.5	14.9	7 55	.....	.. ..	....
	November 29, L.												
23	η Bootis...........	..	.. ..	....	.....	339 54 6.25	28.682	− 21.6	14.8	13 50	.....	.. ..	....
24	d Bootis...........	9	5 54.92	+ 0.10	− 0.16	346 34 5.38	28.428	− 14.1	14.0	14 5	.....	.. ..	....
25	α Bootis...........	9	11 10.69	+ 0.10	− 0.25	340 42 8.40	29.026	− 20.6	13.6	14 11	.....	.. ..	....
26	ρ Bootis...........	9	27 35.32	+ 0.10	− 0.23	351 50 10.62	25.420	− 8.4	14.3	14 27	.....	.. ..	....
27	ε Bootis...........	7	40 41.42	+ 0.10	− 0.27	348 30 5.98	28.165	− 11.9	14.3	14 40	.....	.. ..	....
28	Mercury C, C.....	9	14 35.77	+ 0.13	− **0.22**	304 40 8.78	25.631	−1 24.9	**14.2**	15 14 35.68	− 0.03	−16 23 7.2	....
	November 30, L.												
29	Sun I, N.........	9	22 57.82	+ 0.14	− **0.22**	299 40 10.92	30.207	−1 42.2	**14.2**	16 22 57.74	+70.22	−21 21 12.2	....
30	Sun II, S	9	25 18.27	+ 0.14	− **0.22**	299 8 12.78	29.177	−1 44.4	**14.2**	16 25 18.19	−70.23	−21 53 41.4	....
31	α Ophiuchi	9	30 22.20	+ 0.11	− 0.20	333 40 2.68	26.324	− 28.9	13.5	17 30	.....	.. ..	....
32	ζ Aquilæ..........	9	0 53.67	+ 0.11	− 0.17	334 43 58.80	29.001	− 27.5	13.6	19 0	.....	.. ..	....
33	γ Aquilæ..........	9	41 35.57	+ 0.11	− 0.19	331 24 0.50	27.859	− 31.8	14.7	19 41	.....	.. ..	....
34	α Aquilæ..........	9	45 59.70	+ 0.12	− 0.23	329 38 0.25	28.166	− 34.2	15.1	19 45	.....	.. ..	....
35	Venus I, N.......	9	50 36.86	+ 0.14	− **0.20**	297 10 4.38	28.792	−1 53.2	**14.2**	19 50 36.80	+ 0.88	−23 52 9.8	....
36	Venus S	..	.. ..	....	.....	297 10 4.38	27.950	−1 53.2	**14.2**	.. ..	.....	−23 52 33.7	....
37	θ Aquilæ..........	7	6 14.59	+ 0.12	− 0.22	319 54 2.30	29.994	− 49.1	14.6	20 6	.....	.. ..	....
	November 30, U.												
38	α Canum Venat....	9	51 25.70	+ 0.07	[− 0.02]	359 52	......	....	....	12 51	.....	.. ..	....
39	ε Virginis	9	57 17.35	+ 0.12	[− 0.03]	332 30	......	....	....	12 57	.....	.. ..	....
40	α Ursæ Minoris S. P.	9	24 25.83	+ 3.98	[+ 0.56]	52 12	......	....	....	1 24	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
26 14 41	29.978	33.9	33.0
14 58	......	....	33.2
27 16 12	29.96	35.6	34.9
18 55	29.948	37.5	35.4
19 46	29.968	37.5	36.0
28 5 53	29.98	24.2	23.7
6 32	29.983	23.6	23.4
7 14	29.974	23.4	22.9
7 55	29.956	23.4	23.0
29 13 50	29.824	37.2	39.2
14 6	......	....	39.9
14 11	......	....	40.1
14 28	......	....	40.6
14 41	29.844	41.0	41.1
15 15	29.850	42.6	42.1
30 16 25	29.828	43.2	44.7
17 30	29.820	44.9	44.8
19 1	29.818	46.0	45.1
19 42	......	....	45.3
19 51	29.826	45.8	45.3
20 6	29.826	45.8	45.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 5, 22. Bisections at II, VI, VII.
3, 29. Bisections at I, II, III.
4, 30. Bisections at V, VI, VII.
6. Bisections at I, II.
13, 14, 15, 19. Bisections at VI, VII.
20. Bisections at II, III, IV, V, VI.
35. Bisections at II, VI.
36. Bisections at I, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 6.2	....	+ 0.1	+ 6.3
3	+ 7.8	+16 16.0	...	+16 23.8
4	+ 7.7	−16 16.0	...	−16 8.3
14	+ 0.1	....	...	+ 0.1
20	+22 45.6	+16 13.0	...	+38 58.6
28	+ 6.0	....	+ 0.2	+ 6.2
29	+ 7.8	−16 14.6	...	−16 6.8
30	+ 7.8	+16 14.6	...	+16 22.4
35	+ 11.0	− 12.0	+ 0.1	− 0.9
36	+ 11.0	+ 12.0	...	+ 23.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	December 1, S.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	π Leonis	9	55 2.41	+ 0.08	+ 0.30	329 32 1.60	28.419	— 34.6	23.1	9 55	.....	.. ..	....
2	α Leonis	9	3 9.39	+ 0.08	+ 0.36	333 28 2.20	27.991	— 29.3	23.7	10 3	.....	.. ..	....
3	Moon II..........	9	17 58.59	+ 0.07	+ **0.33**	325 56	......	....	....	10 17 58.99	—64.10	.. ..	....
4	ρ Leonis	9	27 39.18	+ 0.08	+ 0.32	330 50 0.20	27.985	— 32.8	23.6	10 27	.....	.. ..	....
5	41 Leonis Minoris ..	9	38 5.20	+ 0.10	+ 0.34	344 44 1.98	25.954	— 16.0	22.8	10 38	.....	.. ..	....
	December 1, U.												
6	α Canum Venat	9	51 25.42	+ 0.10	[+ 0.26]	359 52	......	....	....	12 51	.....	.. ..	....
7	α Ursæ Minoris S. P.	8	24 32.89	— 3.59	[+ 0.32]	52 12	......	....	....	1 24	.....	.. ..	....
	December 1, L.												
8	α Bootis...........	9	11 10.36	+ 0.09	+ 0.14	340 42 10.05	29.276	— 20.4	23.1	14 11	.....	.. ..	....
9	ε Bootis...........	9	40 41.01	+ 0.10	+ 0.18	348 29 58.90	28.682	— 11.8	22.6	14 40	.....	.. ..	....
10	Mercury C, C	9	26 5.40	+ 0.03	+ **0.21**	303 42 2.45	26.655	—1 26.3	**22.4**	15 26 5.64	— 0.02	—17 20 53.9	....
11	α Coronæ Borealis .	9	30 30.74	+ 0.10	+ 0.22	348 3 57.30	27.668	— 12.1	22.8	15 30	.....	.. ..	....
	December 2, L.												
12	Sun I, S	9	31 35.40	+ 0.02	+ **0.25**	298 50 6.25	27.875	—1 43.5	**22.4**	16 31 35.67	+70.34	—22 12 32.9	....
13	Sun II, N	9	33 56.09	+ 0.02	+ **0.25**	299 22 6.40	28.810	—1 41.2	**22.4**	16 33 56.36	—70.35	—21 40 3.2	....
14	α Ophiuchi........	9	30 21.73	+ 0.08	+ 0.30	333 40	......	....	....	17 30	.....	.. ..	....
15	α Lyræ............	9	33 35.57	+ 0.13	+ 0.32	359 41 58.25	29.420	— 0.2	21.0	18 33	.....	.. ..	....
16	γ Lyræ............	9	55 15.20	+ 0.11	+ 0.37	353 34 0.20	29.055	— 6.3	20.6	18 55	.....	.. ..	....
17	γ Aquilæ..........	9	41 34.93	+ 0.07	+ 0.47	331 23 49.60	28.469	— 30.6	22.7	19 41	.....	.. ..	....
18	α Aquilæ..........	9	45 59.02	+ 0.07	+ 0.49	329 37 49.70	28.769	— 32.9	23.2	19 45	.....	.. ..	....
19	Venus I, N	9	59 25.74	+ 0.02	+ **0.48**	297 37 53.30	28.380	—1 46.9	**22.4**	19 59 26.24	+ 0.90	—23 24 34.5	....
20	Venus S..........	..	.. ..	....	.....	297 37 53.30	27.510	—1 46.9	**22.4**	.. ..	.....	—23 24 59.2	....
21	θ Aquilæ..........	9	6 13.97	+ 0.06	+ 0.44	319 55 50.50	26.428	— 47.3	23.2	20 6	.....	.. ..	....
	December 3, Br.												
22	υ Leonis	9	31 54.63	+ 0.02	+ 1.42	320 45 56.28	25.358	— 49.7	20.4	11 31	.....	.. ..	....
23	β Leonis	9	44 2.26	+ 0.04	+ 1.41	336 7 49.92	29.090	— 26.9	18.8	11 44	.....	.. ..	....
24	Moon II, S	9	54 52.98	+ 0.01	+ **1.41**	316 51 53.02	29.845	— 56.9	**20.0**	11 54 54.40	—62.17	— 4 9 0.8	....
25	ο Virginis.........	9	0 11.59	+ 0.03	+ 1.39	330 17 49.90	28.365	— 34.7	21.4	12 0	.....	.. ..	....
26	γ Corvi	9	10 44.58	— 0.01	+ 1.43	304 1 56.18	29.270	—1 29.8	19.4	12 10	.....	.. ..	....
	December 3, U.												
27	ε Virginis	9	57 16.05	+ 0.08	[+ 1.40]	332 30	......	....	....	12 57	.....	.. ..	....
28	α Ursæ Minoris S.P.	6	24 29.42	— 3.46	[+ 2.16]	52 12	......	....	....	1 24	.....	.. ..	....
	December 4, U.												
29	f Piscium	9	12 44.25	+ 0.09	[+ 1.50]	324 8	......	....	....	1 12	.....	.. ..	....
30	α Ursæ Minoris ...	5	24 23.00	+ 2.96	[+ 1.80]	49 48	......	....	....	1 24	.....	.. ..	....
	December 4, L.												
31	η Virginis.........	9	14 51.96	+ 0.01	+ 1.55	320 54 5.50	28.631	— 50.5	23.3	12 14	.....	.. ..	....
32	δ² Corvi............	9	24 46.14	— 0.03	+ 1.51	305 4 12.02	28.040	—1 28.3	21.4	12 24	.....	. . ....	....
33	Moon II, S.......	9	42 6.32	— 0.01	+ **1.50**	312 46 6.25	25.875	—1 7.1	**21.1**	12 42 7.81	—62.01	— 8 16 52.0	....
34	θ Virginis.........	8	4 50.75	0.00	+ 1.51	316 2 7.12	25.508	— 59.8	20.9	13 4	.....	.. ..	....
35	α Virginis.........	9	20 0.07	— 0.02	+ 1.43	310 24 9.10	25.805	—1 12.6	18.7	13 20	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
1 9 45	29.73	40.5	40.4
10 46	29.724	41.2	40.1
14 11	29.750	43.8	44.4
14 41	......	....	47.1
15 31	29.740	48.6	50.0
2 16 34	29.720	51.9	53.8
18 34	......	....	61.8
18 55	29.700	59.8	62.1
19 42	......	....	61.8
19 59	......	....	61.9
20 6	29.700	61.4	61.7
3 11 32	29.768	26.4	25.1
11 44	......	....	25.0
11 55	......	....	25.0
12 0	......	....	25.0
12 11	29.786	25.9	25.0
4 12 15	29.992	19.2	18.3
12 25	......	....	18.4
12 42	......	....	19.0
13 5	......	...	20.0
13 20	30.016	20.0	20.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

12. Bisections at I, II, III.
13. Bisections at V, VI, VII.
19. Bisections at II, VI.
20. Bisections at I, VII.
22, 25, 34. Bisections at VI, VII.
23. Bisections at II, VI, VII.
24. Bisections at II, III, IV, V, VI.
33. Bisections at III, IV, V.

8 to 21. Two microscopes read.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
10	+ 5.9	....	+ 0.1	+ 6.0
12	+ 7.8	+16 14.9	...	+16 22.7
13	+ 7.8	—16 14.8	...	—16 7.0
19	+ 11.2	— 12.4	+ 0.1	— 1.1
20	+ 11.2	+ 12.4	...	+ 23.6
24	+37 23.5	+15 1.4	...	+52 24.9
33	+39 50.4	+14 53.4	...	+54 43.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	December 4, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Bootis...........	9	11 9.06	− 0.01	+ 1.61	340 42	......	....	....	14 11	.....	.. ..	....
2	ρ Bootis...........	9	27 33.70	+ 0.01	+ 1.59	351 50	......	....	....	14 27	.....	.. ..	....
3	ε Bootis...........	9	40 39.80	+ 0.01	+ 1.54	348 30	......	....	....	14 40	.....	.. ..	....
4	δ Bootis...........	9	11 30.24	+ 0.03	+ 1.52	354 42	......	....	....	15 11	.....	.. ..	....
5	Mercury C.......	9	43 56.91	+ 0.02	+ **1.57**	302 18	......	....	....	15 43 58.50	− 0.02	.. ..	....
	December 5, Br.												
6	Sun I	9	44 35.52	+ 0.04	+ **1.57**	298 40	......	....	....	16 44 37.13	+70.53	.. ..	....
7	Sun II	9	46 56.58	+ 0.04	+ **1.57**	... .	......	....	....	16 46 58.19	−70.53	.. ..	....
8	α Lyræ	9	33 34.30	+ 0.10	+ 1.60	359 42	......	....	....	18 33	.....	.. ..	....
9	β Lyræ	9	46 25.02	+ 0.10	+ 1.53	354 16	......	....	....	18 46	.....	.. ..	....
10	β Cygni...........	9	26 43.70	+ 0.10	+ 1.58	348 46	......	....	....	19 26	.....	.. ..	....
11	γ Aquilæ..........	9	41 33.84	+ 0.10	+ 1.52	331 24	......	....	....	19 41	.....	.. ..	....
12	Venus I	9	12 19.61	+ 0.08	+ **1.57**	298 22	......	....	....	20 12 21.26	+ 0.92	.. ..	....
13	γ Cygni...........	9	18 40.34	+ 0.11	+ 1.63	0 58	.....	....	....	20 18	.....	.. ..	....
	December 5, U.												
14	*f* Piscium	9	12 44.10	+ 0.06	[+ 1.67]	324 8	......	....	....	1 12	.....	.. ..	....
15	α Ursæ Minoris....	6	24 23.35	+ 2.02	[+ 1.69]	49 48	......	....	....	1 24	.....	.. ..	....
16	ν Piscium	9	36 19.48	+ 0.06	[+ 1.65]	326 0	......	....	....	1 36	.....	.. ..	....
	December 5, L.												
17	θ Virginis.........	8	4 50.57	+ 0.13	+ 1.59	316 2 10.82	25.474	−1 0.7	22.8	13 4	.....	.. ..	....
18	α Virginis.........	9	19 59.82	+ 0.13	+ 1.56	310 24 14.50	25.835	−1 13.7	24.0	13 20	.....	.. ..	....
19	Moon II.........	9	29 33.22	+ 0.13	+ **1.60**	309 14	......	....	....	13 29 34.95	−62.33	.. ..	....
20	η Bootis...........	9	49 58.66	+ 0.11	+ 1.65	339 54 3.75	29.095	− 22.9	24.4	13 50	.....	.. ..	....
21	α Bootis...........	9	11 8.99	+ 0.10	+ 1.59	340 42 3.15	29.565	− 21.8	24.1	14 11	.....	.. ..	....
22	Mercury C, C	9	50 2.99	+ 0.10	+ **1.61**	301 52 10.45	25.536	−1 39.2	**23.4**	15 50 4.70	− 0.01	−19 11 31.7	....
	December 6, L.												
23	Sun I, N.........	9	48 57.11	+ 0.09	+ **1.61**	298 50 9.62	27.950	−1 51.4	**23.4**	16 48 58.81	+70.79	−22 12 36.2	....
24	Sun II, S........	9	51 18.70	+ 0.08	+ **1.61**	298 18 5.15	26.983	−1 53.8	**23.4**	16 51 20.39	−70.79	−22 45 10.1	....
25	δ Aquilæ..........	9	20 31.10	+ 0.09	+ 1.59	323 56 4.02	29.851	− 44.4	23.1	19 20	.....	.. ..	....
26	γ Aquilæ..........	9	41 33.71	+ 0.11	+ 1.63	331 24 5.18	28.015	− 33.2	23.2	19 41	.....	.. ..	....
27	α Aquilæ..........	9	45 57.81	+ 0.10	+ 1.64	329 38 7.12	28.266	− 35.7	24.0	19 45	.....	.. ..	....
28	Venus I, N	9	16 32.58	+ 0.05	+ **1.62**	298 38 7.72	30.300	−1 51.2	**23.4**	20 16 34.25	+ 0.93	−22 23 30.7	....
29	Venus S.........	..	.. ..	....	.....	298 38 7.72	29.382	−1 51.2	**23.4**	.. ..	.....	−22 23 56.7	....
30	α Delphini	9	35 3.10	+ 0.12	+ 1.62	336 36 1.65	26.918	− 26.4	22.0	20 35	.....	.. ..	....
	December 6, U.												
31	*f* Piscium	9	12 44.07	+ 0.12	[+ 1.63]	324 8	......	....	....	1 12	.....	.. ..	....
32	α Ursæ Minoris....	5	24 17.50	+ 5.72	[+ 3.19]	49 48	......	....	....	1 24	.....	.. ..	....
	December 6, B.												
33	Moon II.........	9	17 49.58	+ 0.12	+ **1.70**	305 58	......	....	....	14 17 51.40	−62.97	.. ..	....
34	α² Libræ...........	9	45 24.92	+ 0.12	+ 1.68	305 24	......	....	....	14 45	.. ..	.. ..	....
35	α Serpentis........	9	39 23.64	+ 0.19	+ 1.72	327 46	......	....	....	15 39	.....	.. ..	....
36	Mercury I	4	56 12.49	+ 0.14	+ **1.70**	301 24	......	....	....	15 56 14.33	+ 0.16	.. ..	....
37	Mercury II	5	56 12.83	+ 0.14	+ **1.70**	... .	......	....	....	15 56 14.67	− 0.18	.. ..	....
	December 7, B.												
38	Sun II	9	55 40.67	+ 0.15	+ **1.71**	298 26	......	. ..	....	16 55 42.53	−70.79	.. ..	....
39	δ Aquilæ..........	9	20 30.91	+ 0.22	+ 1.65	323 56 1.95	30.016	− 43.8	26.4	19 20	.....	.. ..	....
40	β Cygni...........	9	26 43.34	+ 0.26	+ 1.76	348 45 59.95	29.260	− 11.9	25.8	19 26	.....	.. ..	....
41	α² Capricorni.......	9	12 34.68	+ 0.20	+ 1.69	308 10 4.10	30.750	−1 16.4	25.5	20 12	.....	.. ..	....
42	Venus I, N	9	20 42.42	+ 0.19	+ **1.72**	298 54 4.12	31.340	−1 48.5	**25.8**	20 20 44.33	+ 0.94	−22 7 4.4	....
43	Venus S.........	..	.. ..	....	.....	298 54 4.12	30.440	−1 48.6	**25.8**	.. ..	.....	−22 7 30.0	....
44	α Delphini	9	35 2.81	+ 0.24	+ 1.78	336 35 59.48	27.096	− 26.0	25.3	20 35	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
5 13 5	30.100	16.3	14.4
13 20	......	....	15.4
13 50	......	....	17.1
14 11	30.116	18.3	18.3
15 50	30.124	24.3	22.8
6 16 51	30.108	26.0	24.8
19 21	30.100	29.5	29.0
19 42	......	....	29.0
19 46	......	....	29.0
20 17	......	....	29.2
20 35	30.126	30.0	29.0
7 19 15	30.142	36.0	35.2
20 15	30.138	37.0	35.5
20 39	30.136	37.0	35.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

23. Bisections at I, II, III.
24. Bisections at V, VI, VII.
28, 42. Bisections at II, VI.
29, 43. Bisections at I, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
22	+ 5.7	....	+ 0.1	+ 5.8
23	+ 7.8	−16 16.9	...	−16 9.1
24	+ 7.9	+16 16.9	...	+16 24.8
28	+ 11.6	− 13.1	+ 0.2	− 1.3
29	+ 11.6	+ 13.1	...	+ 24.7
42	+ 11.8	− 12.9	+ 0.2	− 0.9
43	+ 11.8	+ 12.9	...	+ 24.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	December 7, U.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	*f* Piscium	9	12 44.01	+ 0.21	[+ 1.59]	324 8	......	....	....	1 12	.....	.. ..	....
2	α Ursæ Minoris	5	24 22.10	+ 1.68	[+ 2.02]	49 48	......	....	....	1 24	.....	.. ..	....
	December 8, U.												
3	*f* Piscium	9	12 44.13	+ 0.07	[+ 1.61]	324 8	......	....	....	1 12	.....	.. ..	....
4	α Ursæ Minoris	5	24 22.10	+ 2.09	[+ 1.00]	49 48	......	....	....	1 24	.....	.. ..	....
	December 9, U.												
5	α Ursæ Minoris S. P.	8	24 28.85	− 7.94	[+ 3.36]	52 12	......	....	....	1 24	.....	.. ..	....
6	η Bootis	9	49 58.72	+ 0.04	[+ 1.77]	339 54	......	....	....	13 50	.....	.. ..	....
	December 9, Br.												
7	α Bootis	9	11 8.96	+ 0.03	+ 1.79	340 41 53.52	29.629	− 20.4	18.8	14 11	.....	.. ..	....
8	ε Bootis	9	40 39.67	+ 0.05	+ 1.74	348 29 50.35	28.792	− 11.8	19.6	14 40	.....	.. ..	....
9	δ Bootis	9	11 30.02	+ 0.07	+ 1.80	354 41 50.98	27.694	− 5.4	19.3	15 11	.....	.. ..	....
10	α Coronæ Borealis	9	30 29.37	+ 0.05	+ 1.77	348 3 51.62	27.700	− 12.3	20.2	15 30	.....	.. ..	....
11	Mercury C, C	9	15 2.69	− 0.06	+ **1.78**	300 11 56.98	26.296	−1 40.2	**20.0**	16 15 4.41	− 0.01	−20 51 21.1	....
	December 10, Br.												
12	Sun I, S	9	6 29.14	− 0.07	+ **1.78**	297 52 3.48	27.735	−1 49.9	**20.3**	17 6 30.85	+70.97	−23 10 43.8	....
13	Sun II, N	9	8 51.09	− 0.07	+ **1.78**	298 24 3.10	28.863	−1 47.4	**20.3**	17 8 52.80	−70.98	−22 38 9.1	....
14	β Cygni	9	26 43.44	+ 0.10	+ 1.80	348 45 50.22	29.379	− 11.5	20.4	19 26	.....	.. ..	....
15	α Aquilæ	9	45 57.70	+ 0.04	+ 1.79	329 37 52.15	28.644	− 34.1	21.9	19 45	.....	.. ..	....
16	θ Aquilæ	9	6 12.68	+ 0.01	+ 1.73	319 55 51.12	26.401	− 49.0	21.9	20 6	.....	.. ..	....
17	Venus I, N	9	32 55.81	− 0.05	+ **1.79**	299 45 56.22	30.860	−1 41.5	**21.4**	20 32 57.55	+ 0.97	−21 15 14.4	....
18	Venus S	..	.. ..	....	.....	299 45 56.22	29.940	−1 41.5	**21.4**	.. ..	.....	−21 15 40.8	....
19	ε Cygni	9	42 12.40	+ 0.13	+ 1.82	354 35 52.72	31.218	− 5.4	20.5	20 42	.....	.. ..	....
	December 10, U.												
20	ε Virginis	9	57 15.83	− 0.11	[+ 2.02]	27 22	......	....	....	12 57	.....	.. ..	....
21	α Ursæ Minoris S. P.	9	24 27.72	− 6.99	[+ 2.87]	307 40	......	....	....	1 24	.....	.. ..	....
22	η Bootis	9	49 58.60	− 0.09	[+ 2.05]	19 58	......	....	....	13 50	.....	.. ..	....
	December 10, L.												
23	α Bootis	9	11 9.01	− 0.09	+ 1.88	19 8 14.22	30.472	+ 21.0	47.0	14 11	.....	.. ..	....
24	ε Bootis	9	40 39.62	− 0.07	+ 1.93	11 22 12.82	27.285	+ 12.1	46.7	14 40	.....	.. ..	....
25	α Coronæ Borealis	9	30 29.31	− 0.06	+ 1.96	11 48 12.62	28.396	+ 12.6	47.8	15 30	.....	.. ..	....
	December 11, L.												
26	Sun I, S	9	10 53.36	− 0.20	+ **1.96**	62 6 4.45	26.655	+1 51.4	**47.5**	17 10 55.12	+70.88	−23 16 0.6	....
27	Sun II, N	9	13 15.13	− 0.20	+ **1.96**	61 34 3.15	25.682	+1 48.9	**47.5**	17 13 16.89	−70.89	−22 43 28.6	....
28	γ Aquilæ	4	41 33.54	− 0.09	+ 1.97	28 28	......	....	....	19 41	.....	.. ..	...
29	α Aquilæ	7	45 57.58	− 0.10	+ 2.04	30 14 7.08	27.715	+ 34.4	48.6	19 45	.....	.. ..	....
30	γ Cygni	8	18 40.03	− 0.02	+ 1.98	358 54 8.35	28.585	− 1.0	47.3	20 18	.....	.. ..	....
31	Venus I, S	9	36 54.03	− 0.17	+ **2.01**	59 46 5.12	30.424	+1 41.0	**47.5**	20 36 55.87	+ 0.98	−20 57 38.0	....
32	ε Cygni	9	42 12.34	− 0.04	+ 2.03	5 14 6.10	29.290	+ 5.5	47.6	20 42	.....	.. ..	....
	December 11, U.												
33	α Ursæ Minoris S. P.	8	24 27.59	− 6.65	[+ 1.92]	307 40	......	....	....	1 24	.....	.. ..	....
34	η Bootis	9	49 58.50	− 0.10	[+ 2.19]	19 58	......	....	....	13 50	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
9 14 11	29.688	43.4	42.8
14 41	......	....	43.0
15 12	29.702	44.6	43.0
15 30	29.704	45.0	43.0
16 15	29.720	44.3	42.5
10 17 9	29.754	45.0	44.1
19 27	29.808	48.0	45.8
19 46	29.810	48.0	45.9
20 6	29.816	48.1	45.9
20 33	......	....	45.8
20 42	29.834	47.5	45.8
14 11	30.082	35.9	35.4
14 41	......	....	37.2
15 30	30.100	39.8	39.6
11 17 13	30.092	44.0	45.2
19 46	30.066	47.1	46.0
20 37	......	....	46.3
20 42	30.062	47.2	46.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

12, 26.	Bisections at I, II, III.
13, 27.	Bisections at V, VI, VII.
17.	Bisections at I, VII.
18.	Bisections at II, VI.
19, 24.	Bisections at II, VI, VII.
32.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
11	+ 5.6	....	0.0	+ 5.6
12	+ 7.9	+16 17.3	...	+16 25.2
13	+ 7.9	−16 17.4	...	−16 9.5
17	+ 12.0	− 13.4	+ 0.4	− 1.0
18	+ 12.0	+ 13.4	...	+ 25.4
26	+ 7.9	+16 16.0	...	+16 23.9
27	+ 7.9	−16 16.0	...	−16 8.1
31	+ 12.2	+ 13.7	...	+ 25.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	December 11, Br.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Bootis..........	9	11 8.76	− 0.12	+ 2.19	19 8 2.18	30.940	+ 21.1	48.2	14 11	.....	.. ..	....
2	ε Bootis..........	9	40 39.46	− 0.09	+ 2.14	11 22 0.62	27.735	+ 12.2	47.3	14 40	.....	.. ..	....
3	δ Bootis..........	9	11 29.87	− 0.07	+ 2.13	5 9 57.32	28.944	+ 5.5	47.6	15 11	.....	.. ..	....
	December 12, Br.												
4	Sun I, N.........	9	15 17.63	− 0.27	+ **2.17**	61 37 52.25	27.653	+1 49.6	**48.4**	17 15 19.53	+70.98	−22 48 14.1	....
5	Sun II, S........	9	17 39.59	− 0.27	+ **2.17**	62 9 54.72	28.612	+1 52.1	**48.4**	17 17 41.49	−70.98	−23 20 46.0	....
6	α Lyræ..........	9	33 33.82	− 0.05	+ 2.20	0 9 56.85	27.128	+ 0.2	48.0	18 33	.....	.. ..	....
7	β Cygni..........	9	26 43.30	− 0.09	+ 2.12	11 6 1.42	27.295	+ 11.6	51.0	19 26	.....	.. ..	.. .
8	α Aquilæ.........	9	45 57.50	− 0.16	+ 2.18	30 14 0.68	27.972	+ 34.2	49.1	19 45	.....	.. ..	....
9	Venus I, S... ...	9	40 49.06	− 0.26	+ **2.18**	59 27 58.35	29.808	+1 39.4	**49.2**	20 40 50.98	+ 0.99	−20 39 10.4	....
10	ζ Cygni..........	9	8 43.54	− 0.08	+ 2.21	9 1 55.10	26.815	+ 9.4	47.7	21 8	.....	.. ..	....
	December 14, U.												
11	α Ursæ Minoris S. P.	9	24 26.67	− 9.19	[+ 2.80]	307 40	......	....	....	1 24	.....	.. ..	....
12	α Bootis....	9	11 8.57	− 0.12	[+ 2.46]	19 10	......	....	....	14 11	.....	.. ..	....
	December 15, S.												
13	γ Aquilæ.........	9	41 32.90	− 0.16	+ 2.66	28 28	......	....	....	19 41	.....	.. ..	....
14	α Aquilæ.........	9	45 57.03	− 0.17	+ 2.64	30 14	......	....	....	19 45	.....	.. ..	....
15	ε Cygni..........	9	42 11.69	− 0.04	+ 2.63	5 16	......	....	....	20 42	.....	.. ..	....
16	Moon I..........	9	9 47.91	− 0.27	+ **2.65**	50 26	......	....	....	21 9 50.29	+64.62	.. ..	.. ..
17	ε Pegasi..........	9	39 19.86	− 0.17	+ 2.60	29 26	......	....	....	21 39	.....	.. ..	....
18	α Aquarii.........	9	0 42.56	− 0.21	+ 2.71	39 38	......	....	....	22 0	.....	.. ..	....
	December 15, U.												
19	ε Virginis........	9	57 15.50	− 0.21	[+ 2.60]	27 22	......	....	....	12 57	.....	.. ..	....
20	α Ursæ Minoris S. P.	9	24 22.33	− 6.99	[+ 4.00]	307 40	......	....	....	1 24	.....	.. ..	....
21	η Bootis..........	9	49 58.23	− 0.18	[+ 2.65]	19 58	......	....	....	13 50	.....	.. ..	....
	December 16, U.												
22	f Piscium........	9	12 43.27	− 0.13	[+ 2.60]	35 44	......	....	....	1 12	.....	.. ..	....
23	α Ursæ Minoris....	7	24 13.13	+ 1.92	[+ 3.83]	310 6	......	....	....	1 24	.....	.. ..	....
24	ν Piscium........	9	36 18.66	− 0.12	[+ 2.56]	33 52	......	....	....	1 36	.....	.. ..	....
	December 16, L.												
25	ε Bootis..........	9	40 39.20	− 0.01	+ 2.45	11 21 58.42	27.960	+ 12.5	50.3	14 40	.....	.. ..	....
26	α Coronæ Borealis..	9	30 28.92	− 0.01	+ 2.42	11 48	......	....	....	15 30	.....	.. ..	....
27	α Serpentis.......	9	39 23.36	− 0.11	+ 2.49	32 6 6.52	29.028	+ 38.6	50.0	15 39	.....	.. ..	....
28	β Herculis....	9	25 56.96	− 0.04	+ 2.47	17 8 8.85	29.305	+ 19.0	49.5	16 25	.....	.. ..	....
	December 17, L.												
29	Sun I, N.........	9	37 24.47	− 0.27	+ **2.47**	61 54 6.92	29.437	+1 53.8	**50.2**	17 37 26.67	+71.31	−23 5 21.9	....
30	Sun II, S........	9	39 47.10	− 0.27	+ **2.47**	62 26 6.55	30.602	+1 56.4	**50.2**	17 39 49.30	−71.32	−23 37 56.8	...
31	γ Aquilæ.........	9	41 32.98	− 0.10	+ 2.52	28 28 14.38	27.814	+ 32.9	50.4	19 41	.....	.. ..	....
32	α Aquilæ.........	9	45 57.11	− 0.10	+ 2.49	30 14 10.45	27.665	+ 35.3	50.7	19 45	.....	.. ..	....
33	ε Cygni..........	9	42 11.78	+ 0.03	+ 2.45	5 14 6.55	29.414	+ 5.6	50.7	20 42	.....	.. ..	....
34	Venus I, S.......	9	59 34.59	− 0.24	+ **2.48**	57 52 6.18	27.148	+1 36.3	**50.2**	20 59 36.83	+ 1.04	−19 1 58.3	....
35	ζ Cygni..........	9	8 43.13	+ 0.01	+ 2.47	9 2 10.28	26.364	+ 9.7	49.5	21 8	.....	.. ..	....
36	η Aquarii.........	9	30 17.11	− 0.15	+ 2.44	39 28 9.28	27.160	+ 50.0	50.9	22 30	.....	.. ..	....
37	ζ Pegasi..........	9	36 32.36	− 0.10	+ 2.44	28 32 10.38	26.421	+ 33.1	50.1	22 36	.....	.. ..	....
38	λ Aquarii.........	9	47 28.11	− 0.18	+ 2.40	46 56 12.10	28.149	+1 5.1	51.4	22 47	.....	.. ..	....
39	Moon I, S.......	9	52 15.94	− 0.19	+ **2.42**	42 2 9.52	27.853	+ 54.8	**50.2**	22 52 18.17	+65.03	− 3 11 40.4	....
40	α Pegasi..........	9	59 50.79	− 0.08	+ 2.42	24 10 9.82	27.631	+ 27.4	49.0	22 59	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
11 14 11	30.100	35.8	34.2
14 41	30.096	36.2	35.4
15 11	......	....	37.3
12 17 17	30.082	43.7	43.3
18 34	30.064	46.9	46.8
19 27	30.054	48.2	47.8
19 46	30.052	48.9	47.9
20 41	30.052	49.0	47.8
21 9	30.052	48.7	47.2
16 14 41	29.684	18.0	17.8
15 39	29.688	20.8	20.7
16 26	......	....	21.6
17 17 40	29.642	25.0	24.2
19 46	29.608	28.4	26.0
20 42	......	....	26.0
21 0	......	....	26.0
21 9	29.600	28.0	25.9
22 30	29.606	26.3	24.6
23 0	29.618	25.3	24.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 28. Bisections at II, VI, VII.
4, 29. Bisections at I, II, VII.
5, 30. Bisections at V, VI, VII.
27. Bisections at I, II, VII.
39. Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 7.9	−16 16.0	...	−16 8.1
5	+ 7.9	+16 15.9	...	+16 23.8
9	+ 12.3	+ 13.9	...	+ 26.2
29	+ 7.9	−16 17.4	...	−16 9.5
30	+ 8.0	+16 17.4	...	+16 25.4
34	+ 12.9	+ 14.8	...	+ 27.7
39	+38 19.7	+15 40.8	...	+54 0.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	December 17, U.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	*f* Piscium	9	12 43.36	− 0.13	[+ 2.50]	35 44	......	....	....	1 12	.....	.. ..	....
2	α Ursæ Minoris	5	24 9.40	+ 7.41	[+ 1.17]	310 6	......	....	....	1 24	.....	.. ..	....
	December 18, B.												
3	ι Piscium	9	34 52.64	− 0.08	+ 2.56	33 46 6.65	25.334	+ 41.2	51.7	23 34	.....	.. ..	....
4	ι¹ Aquarii	9	39 5.14	− 0.12	+ 2.52	57 40 4.92	25.712	+1 37.0	50.1	23 39	.....	.. ..	....
5	Moon I, S	9	44 35.40	− 0.08	+ **2.54**	37 14 8.05	30.252	+ 46.9	**50.6**	23 44 37.86	+65.96	+ 1 35 21.0	....
6	ω Piscium	9	54 14.90	− 0.08	+ 2.57	32 32 6.10	26.348	+ 39.3	50.6	23 54	.....	.. ..	....
7	33 Piscium	9	0 17.37	− 0.10	+ 2.52	45 6 7.25	26.916	+1 1.8	49.9	0 0	.....	.. ..	....
	December 18, U.												
8	*f* Piscium	9	12 43.39	− 0.07	[+ 2.40]	35 44	......	....	....	1 12	.....	.. ..	....
9	α Ursæ Minoris	7	24 12.36	+ 2.67	[+ 2.08]	310 6	......	....	....	1 24	.....	.. ..	....
10	ν Piscium	9	36 18.79	− 0.07	[+ 2.36]	33 52	......	....	....	1 36	.....	.. ..	....
	December 19, Br.												
11	α Andromedæ	9	3 17.89	+ 0.01	+ 2.27	10 18 9.80	27.655	+ 11.4	[53.7]	0 3	.....	.. ..	....
12	π Andromedæ	9	31 37.64	0.00	+ 2.26	5 40 5.38	28.180	+ 6.3	49.4	0 31	.....	.. ..	....
13	Moon I, S	9	38 46.76	+ 0.02	+ **2.27**	32 28 5.30	27.836	+ 39.9	**50.0**	0 38 49.05	+67.41	+ 6 22 39.0	....
14	ε Piscium	9	57 50.14	+ 0.02	+ 2.27	31 30 4.48	25.440	+ 38.4	50.5	0 57	.....	.. ..	....
15	*f* Piscium	9	12 43.40	+ 0.02	+ 2.29	35 44 6.08	29.088	+ 45.2	50.0	1 12	.....	.. ..	....
	December 20, L.												
16	*f* Piscium	9	12 43.57	+ 0.04	+ 2.09	35 43 58.48	29.412	+ 45.2	51.6	1 12	.....	.. ..	....
17	π Piscium	9	31 53.24	+ 0.04	+ 2.13	27 11 58.90	28.682	+ 32.3	51.0	1 31	.....	.. ..	....
18	Moon I, S	9	35 40.61	+ 0.04	+ **2.10**	27 58 1.32	27.682	+ 33.4	**51.4**	1 35 42.75	+69.28	+10 52 55.2	....
19	ο Piscium	7	40 12.18	+ 0.04	+ 2.15	30 12 0.50	25.450	+ 36.5	50.7	1 40	.....	.. ..	....
20	ζ Ceti	9	46 36.43	+ 0.06	+ 2.04	49 39 59.90	26.594	+1 13.9	52.5	1 46	.....	.. ..	....
	December 21, U.												
21	α Canum Venat....	9	51 24.65	− 0.08	[+ 1.91]	0 0	......	....	....	12 51	.....	.. ..	....
22	20 Canum Venat....	9	13 6.65	− 0.08	[+ 2.00]	357 46	......	....	....	13 13	.....	.. ..	....
23	α Ursæ Minoris S.P.	9	24 12.06	+ 0.66	[+ 1.64]	307 40	......	....	....	1 24	.....	.. ..	....
	December 22, S.												
24	ζ Arietis	9	9 15.84	− 0.01	+ 2.05	18 10 1.52	28.054	+ 19.9	48.8	3 9	.....	.. ..	....
25	*f* Tauri	9	25 27.46	0.00	+ 2.04	26 14 0.38	29.578	+ 29.9	49.1	3 25	.....	.. ..	....
26	Moon I, S	9	39 22.78	− 0.01	+ **2.04**	21 11 56.20	30.515	+ 23.5	**48.8**	3 39 24.81	+73.03	+17 37 46.9	....
27	ζ Persei	9	47 58.43	− 0.02	+ 2.02	7 16 4.20	26.960	+ 7.8	49.1	3 48	.....	.. ..	....
28	*A*¹ Tauri	9	58 54.02	− 0.01	+ 2.07	17 1 57.72	28.349	+ 18.6	48.1	3 58	.....	.. ..	....
	December 23, U.												
29	α Canum Venat....	9	51 25.01	− 0.07	[+ 1.61]	0 0	......	....	....	12 51	.....	.. ..	....
30	ε Virginis	9	57 16.48	− 0.04	[+ 1.71]	27 22	......	....	....	12 57	.....	.. ..	....
31	α Ursæ Minoris S.P.	9	24 6.72	+ 4.33	[+ 1.78]	307 40	......	....	....	1 24	.....	.. ..	....
	December 23, B.												
32	β Libræ	9	11 41.88	+ 0.01	+ 1.78	47 51 53.65	27.011	+1 5.8	49.1	15 11	.....	.. ..	....
33	α Coronæ Borealis .	9	30 29.73	− 0.02	+ 1.78	11 48 4.85	28.840	+ 12.5	48.8	15 30	.....	.. ..	....
34	α Serpentis	9	39 24.08	0.00	+ 1.82	32 6 0.80	29.329	+ 37.4	50.1	15 39	.....	.. ..	....
35	δ Ophiuchi	9	9 10.31	+ 0.01	+ 1.70	42 16 0.88	29.812	+ 54.0	50.3	16 9	.....	.. ..	....
36	Mercury I, C.....	4	48 12.87	+ 0.02	+ **1.80**	63 22 5.55	29.531	+1 56.2	**49.8**	17 48 14.69	+ 0.24	−24 33 25.8	....
37	Mercury II	5	48 13.35	+ 0.02	+ **1.80**	... .	......	....	....	17 48 15.17	− 0.24	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
18 23 27	29.818	23.2	22.0
0 10	29.838	22.0	21.3
19 0 3	30.008	21.8	17.3
0 32	......	....	17.0
0 39	30.020	19.8	16.9
0 58	......	....	16.6
1 13	30.024	19.0	16.3
20 0 14	30.000	18.8	17.0
1 47	29.998	17.0	15.4
22 3 9	29.680	27.2	27.3
3 59	29.668	28.2	28.0
23 15 13	29.600	32.0	33.8
15 46	29.602	34.4	34.2
16 12	29.622	36.5	35.3
17 43	29.642	42.0	43.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 13, 18, 26. Bisections at II, III, IV, V, VI.
17. Bisections at II, VI, VII.
19. Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+35 5.6	+15 53.3	...	+50 58.9
13	+31 31.2	+16 6.0	...	+47 37.2
18	+27 51.7	+16 18.1	...	+44 9.8
26	+21 51.0	+16 35.3	...	+38 26.3
36	+ 5.5	....	0.0	+ 5.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	December 24, B.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N........	9	8 29.96	+ 0.02	+ **1.80**	62 0 6.15	26.095	+1 49.4	**49.8**	18 8 31.78	+71.27	−23 9 41.9	....
2	Sun II, S	9	10 52.50	+ 0.02	+ **1.80**	62 32 7.90	27.122	+1 51.9	**49.8**	18 10 54.32	−71.27	−23 42 15.2	....
3	α Aquilæ..........	9	45 57.63	0.00	+ 1.87	30 14 10.02	27.754	+ 33.9	50.3	19 45	.....	.. ..	....
4	ζ Cygni	9	8 43.71	− 0.03	+ 1.86	9 2 13.22	26.314	+ 9.3	49.5	21 8	.....	.. ..	....
5	Venus I, S.......	9	23 15.71	+ 0.02	+ **1.85**	55 24 10.90	29.816	+1 24.3	**49.8**	21 23 17.58	+ 1.13	−16 35 7.5	....
6	β Aquarii..........	9	26 21.93	+ 0.01	+ 1.83	44 50 13.05	28.378	+ 57.8	49.1	21 26	.....	.. ..	....
7	ε Pegasi...........	9	39 20.40	0.00	+ 1.81	29 26 11.45	25.686	+ 32.8	50.9	21 39	.....	.. ..	....
8	β Tauri	9	20 6.44	− 0.10	+ 1.79	10 20 14.32	26.898	+ 10.9	49.4	5 20	.....	.. ..	....
9	δ Orionis..........	9	27 0.24	− 0.06	+ 1.78	39 12 8.72	29.585	+ 48.4	48.2	5 27	.....	.. ..	....
10	Moon I, S	9	51 59.29	− 0.08	+ **1.76**	19 42 17.20	28.622	+ 21.3	**48.8**	5 52 0.97	+73.72	+19 8 22.1	....
11	ν Orionis..........	9	1 59.10	− 0.08	+ 1.73	24 4 8.80	28.028	+ 26.5	48.3	6 2	.....	.. ..	....
12	η Geminorum......	9	8 58.32	− 0.09	+ 1.76	16 18 12.82	29.714	+ 17.4	49.3	6 8	.....	.. ..	....
13	μ Geminorum......	..	.. ..	....	.....	16 18 12.82	26.085	+ 17.4	48.9	6 17	.....	.. ..	....
	December 25, Br.												
14	χ Orionis..........	9	43 7.10	− 0.07	+ 1.46	48 32 4.55	29.040	+1 7.2	48.3	5 43	.....	.. ..	....
15	θ Aurigæ..........	9	53 3.62	− 0.11	+ 1.39	1 38 3.40	30.014	+ 1.8	48.2	5 53	.....	.. ..	....
16	Neptune C, C ...	9	59 53.99	− 0.09	+ **1.45**	16 36 3.98	27.605	+ 17.8	**48.3**	5 59 55.35	.....	+22 15 7.1	....
17	η Geminorum......	9	8 58.61	− 0.09	+ 1.48	16 18 3.72	29.995	+ 17.5	48.3	6 9	.....	.. ..	....
18	μ Geminorum......	9	17 2.79	− 0.09	+ 1.46	16 18 3.20	26.400	+ 17.4	48.2	6 17	.....	.. ..	....
19	θ Geminorum......	9	46 20.94	− 0.11	+ 1.45	4 46 1.45	29.236	+ 5.0	49.0	6 46	.....	.. ..	....
20	Moon II, S	9	59 41.82	− 0.09	+ **1.45**	21 14 2.22	28.728	+ 23.2	**48.8**	6 59 43.18	−72.37	+17 36 31.6	....
21	δ Geminorum......	9	14 17.00	− 0.09	+ 1.50	16 40 1.78	30.865	+ 17.9	47.9	7 14	.....	.. ..	....
22	β Canis Minoris....	9	21 50.81	− 0.08	+ 1.47	30 22 4.60	27.111	+ 35.0	48.1	7 21	.....	.. ..	....
23	α² Geminorum......	9	28 21.86	− 0.11	+ 1.38	6 44 4.02	30.298	+ 7.1	48.7	7 28	.....	.. ..	....
	December 26, U.												
24	ε Virginis	9	57 17.11	− 0.09	[+ 1.22]	27 22	......	....	....	12 57	.....	.. ..	....
25	α Ursæ Minoris S. P.	7	24 6.47	+ 3.06	[+ 0.63]	307 40	......	....	....	1 24	.....	.. ..	....
26	η Bootis...........	9	49 59.89	− 0.09	[+ 1.23]	19 58	......	....	....	13 50	.....	.. ..	....
	December 26, Br.												
27	α Coronæ Borealis..	9	30 30.49	− 0.09	+ 1.17	11 48 0.28	29.023	+ 12.5	48.5	15 30	.....	.. ..	....
28	α Serpentis........	9	39 24.81	− 0.08	+ 1.25	32 6 2.88	29.225	+ 37.3	48.5	15 39	.....	.. ..	....
29	ε Serpentis........	7	45 54.20	− 0.08	+ 1.24	34 3 56.75	28.622	+ 40.2	48.7	15 45	.....	.. ..	....
30	δ Ophiuchi........	9	9 10.96	− 0.08	+ 1.21	42 15 54.72	29.988	+ 54.0	48.6	16 9	.....	.. ..	....
31	π Herculis.........	9	11 35.73	− 0.10	+ 1.11	1 55 57.35	28.215	+ 2.1	48.5	17 11	.....	.. ..	....
	December 27, Br.												
32	Sun I, S.........	9	21 49.80	− 0.08	+ **1.19**	62 26 3.12	28.917	+1 52.9	**48.6**	18 21 50.91	+71.24	−23 37 4.0	....
33	Sun II, N........	9	24 12.29	− 0.08	+ **1.19**	61 54 1.05	27.882	+1 50.4	**48.6**	18 24 13.40	−71.25	−23 4 29.7	....
34	γ Aquilæ..........	9	41 34.29	− 0.08	+ 1.19	28 27 57.35	28.444	+ 32.1	49.0	19 41	.....	.. ..	....
35	α Aquilæ..........	8	45 58.40	− 0.08	+ 1.18	30 13 58.95	28.120	+ 34.5	49.8	19 45	.....	.. ..	....
36	ζ Cygni	9	8 44.40	− 0.10	+ 1.21	9 2 1.88	26.656	+ 9.5	47.5	21 8	.....	.. ..	....
37	β Aquarii..........	9	26 22.66	− 0.08	+ 1.18	44 49 56.25	28.881	+ 58.9	47.5	21 26	.....	.. ..	....
38	Venus I, S	9	32 22.70	− 0.08	+ **1.19**	54 17 59.18	31.605	+1 22.4	**48.6**	21 32 23.81	+ 1.17	−15 29 46.0	....
39	ε Pegasi...........	9	39 21.07	− 0.08	+ 1.19	29 26 1.18	25.978	+ 33.5	49.3	21 39	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
24	18	10	29.634	43.0	44.3
	19	47	29.652	46.3	46.3
	21	11	29.666	47.0	46.4
	21	42	29.666	47.0	46.2
	5	15	29.656	38.0	37.0
	5	35	29.650	38.0	37.0
	6	21	29.624	38.2	36.7
25	5	43	29.898	40.4	39.8
	6	0	......	....	39.6
	6	17	29.908	39.8	39.0
	6	46	29.918	39.2	38.3
	7	0	......	....	38.1
	7	14	......	....	38.0
	7	22	......	....	37.8
	7	28	29.926	38.5	37.4
26	15	31	29.838	36.5	38.8
	15	39	29.842	37.5	39.0
	15	46	......	....	39.1
	16	9	29.870	39.0	40.0
	17	12	29.888	41.5	41.6
27	18	24	29.908	42.4	42.3
	19	42	29.918	43.1	42.4
	19	46	29.914	43.8	42.4
	21	9	29.954	44.2	42.1
	21	26	......	....	42.1
	21	32	29.960	43.8	42.0
	21	39	29.968	44.0	42.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 32.	Bisections at I, II, III.
2, 33.	Bisections at V, VI, VII.
10, 20.	Bisections at II, III, IV, V, VI.
23.	Bisections at VI, VII.
27.	Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 7.9	−16 16.6	...	−16 8.7
2	+ 8.0	+16 16.6	...	+16 24.6
5	+ 13.8	+ 16.3	...	+ 30.1
10	+20 20.6	+16 34.9	...	+36 55.5
16	+ 0.1	....	...	+ 0.1
20	+21 41.4	+16 27.1	...	+38 8.5
32	+ 8.0	+16 17.1	...	+16 25.1
33	+ 7.9	−16 17.1	...	−16 9.2
38	+ 14.2	+ 17.0	...	+ 31.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	December 27, U.		m s	s	′ s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	*f* Piscium	9	12 44.47	− 0.08	[+ 1.23]	35 44	......	....	....	1 12	.....	.. ..	....
2	α Ursæ Minoris	5	24 11.20	− 2.21	[+ 0.68]	310 6	......	....	....	1 24	.....	.. ..	....
	December 27, Br.												
3	δ Orionis..........	9	27 0.81	− 0.07	+ 1.24	39 12 3.90	29.704	+ 49.2	47.1	5 27	.....	.. ..	....
4	θ Aurigæ..........	9	53 3.80	− 0.11	+ 1.23	1 38 0.50	30.069	+ 1.8	47.1	5 53	.....	.. ..	....
5	Neptune C, C	9	59 39.60	− 0.09	+ **1.24**	16 35 56.80	27.745	+ 18.0	**47.2**	5 59 40.75	.....	+22 15 9.0	....
6	η Geminorum	9	8 58.83	− 0.09	+ 1.28	16 18 0.00	30.075	+ 17.7	47.0	6 9	.....	.. ..	....
7	μ Geminorum	9	17 3.07	− 0.09	+ 1.20	16 17 59.15	26.519	+ 17.7	47.8	6 17	.....	.. ..	....
8	σ Hydræ	9	33 38.83	− 0.07	+ 1.22	35 10 2.55	27.030	+ 42.8	46.6	8 33	.....	.. ..	....
9	ε Hydræ	9	41 35.86	− 0.07	+ 1.24	32 3 56.72	28.365	+ 38.1	47.9	8 41	.....	.. ..	....
10	Moon II, S	9	0 20.93	− 0.08	+ **1.19**	27 46 1.48	29.852	+ 32.1	**47.4**	9 0 22.04	−67.98	+11 3 50.5	....
11	θ Hydræ	9	9 16.56	− 0.07	+ 1.20	36 5 58.38	30.246	+ 44.4	48.0	9 9	.....	.. ..	....
12	α Lyncis	9	15 5.99	− 0.10	+ 1.10	4 1 59.68	30.227	+ 4.4	47.0	9 15	.....	.. ..	....
	December 30, Br.												
13	δ Crateris	9	14 27.24	− 0.14	+ 0.62	53 4 4.28	29.764	+1 19.8	48.9	11 14	.....	.. ..	....
14	τ Leonis	9	22 54.46	− 0.12	+ 0.63	35 26 3.80	29.881	+ 42.7	48.1	11 22	.....	.. ..	....
15	Moon II, S.......	9	36 20.56	− 0.13	+ **0.64**	41 6 1.90	28.881	+ 52.3	**48.1**	11 36 21.07	−63.12	− 2 16 1.7	....
16	β Leonis	9	44 4.00	− 0.11	+ 0.71	23 44 4.22	27.536	+ 26.4	48.1	11 44	.....	.. ..	....
17	π Virginis.........	9	55 51.46	− 0.12	+ 0.60	31 40 0.92	30.410	+ 37.0	47.4	11 55	.....	.. ..	....
	December 30, L.												
18	ε Serpentis	9	45 55.07	− 0.08	+ 0.47	34 4 1.18	28.458	+ 40.5	48.0	15 45	.....	.. ..	....
19	δ Scorpii	9	54 31.63	− 0.11	+ 0.49	61 10 3.30	27.710	+1 48.2	46.7	15 54	.....	.. ..	....
20	δ Ophiuchi........	9	9 11.81	− 0.09	+ 0.47	42 16 3.75	29.609	+ 54.2	46.5	16 9	.....	.. ..	....
21	α Ophiuchi........	9	30 21.96	− 0.06	+ 0.49	26 12 6.90	29.535	+ 29.0	46.5	17 30	.....	.. ..	....
	December 31, L.												
22	Sun I, S.........	9	39 34.09	− 0.07	+ **0.49**	62 12 2.15	30.083	+1 50.5	**48.1**	18 39 34.51	+71.15	−23 23 34.2	....
23	Sun II, N........	9	41 56.40	− 0.07	+ **0.49**	61 40 2.52	28.922	+1 48.0	**48.1**	18 41 56.82	−71.16	−22 50 59.0	....
24	γ Aquilæ..........	9	41 34.96	− 0.05	+ 0.50	28 28 6.22	28.179	+ 31.6	49.2	19 41	.....	.. ..	....
25	α Aquilæ..........	9	45 59.06	− 0.05	+ 0.50	30 14 4.42	27.966	+ 33.9	49.7	19 45	.....	.. ..	....
26	ζ Cygni	9	8 45.03	− 0.05	+ 0.50	9 2 3.78	26.651	+ 9.3	48.2	21 8	.....	.. ..	....
27	ε Pegasi...........	9	39 21.74	− 0.04	+ 0.46	29 26 6.40	25.838	+ 32.7	49.3	21 39	.....	.. ..	....
28	Venus I, S........	9	43 26.80	− 0.05	+ **0.49**	52 52 4.72	27.188	+1 16.4	**49.1**	21 43 27.24	+ 1.23	−14 1 39.2	....
	December 31, U.												
29	*f* Piscium	9	12 45.14	− 0.03	[+ 0.46]	35 44	......	....	....	1 12	.....	.. ..	....
30	α Ursæ Minoris....	5	24 7.00	− 2.41	[+ 0.91]	310 6	......	....	....	1 24	.....	.. ..	....
	December 31, L.												
31	γ Corvi.............	9	10 46.78	− 0.14	+ 0.30	55 50 5.58	27.084	+1 30.2	48.4	12 10	.....	.. ..	....
32	η Virginis.........	9	14 54.13	− 0.12	+ 0.38	38 58 6.32	27.548	+ 49.6	48.0	12 14	.....	.. ..	....
33	Moon II, S	9	24 36.32	− 0.12	+ **0.35**	45 26 4.92	26.547	+1 2.2	**48.3**	12 24 36.55	−62.58	− 6 35 7.9	....
34	β Corvi............	9	29 15.09	− 0.16	+ 0.30	61 40 7.30	29.091	+1 53.6	47.8	12 29	.....	.. ..	....
35	γ Virginis (*mean*)..	9	36 42.13	− 0.12	+ 0.42	39 46 5.30	26.228	+ 51.1	48.9	12 36	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
27 5 27	30.034	35.2	35.3
6 0	30.040	35.6	35.1
6 17	30.038	35.2	34.3
8 34	30.014	31.2	30.8
8 42	......	....	31.0
9 0	30.016	31.0	30.9
9 15	30.016	31.6	31.0
30 11 14	29.634	30.8	31.0
11 23	......	....	31.1
11 36	......	....	32.0
11 44	......	....	32.1
11 56	29.658	31.1	32.1
15 46	29.726	32.1	34.0
15 55	......	....	34.8
16 9	......	....	35.9
17 30	29.700	39.2	41.0
31 18 41	29.660	43.0	44.7
19 46	29.638	46.2	46.1
21 9	29.628	49.0	47.8
21 43	29.630	49.1	47.7
12 11	30.116	30.3	28.3
12 37	30.128	29.8	27.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

10, 15, 33.	Bisections at II, III, IV, V, VI.
12.	Bisections at II, VI, VII.
19.	Bisections at I, II, VI.
22.	Bisections at I, II, III.
23.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 0.1	....	...	+ 0.1
10	+27 11.5	+16 0.5	...	+43 12.0
15	+36 36.9	+15 15.5	...	+51 52.4
22	+ 7.9	+16 17.6	...	+16 25.5
23	+ 7.9	−16 17.6	...	−16 9.7
28	+ 14.7	+ 18.0	...	+ 32.7
33	+39 10.9	+15 3.9	...	+54 14.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 1, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α¹ Herculis	9	10 9.83	− 0.14	+ 0.37	24 20	......	....	....	17 10	.....	.. ..	....
2	α Ophinchi	9	30 22.20	− 0.14	+ 0.37	26 12	......	....	....	17 30	.....	.. ..	....
3	α Lyræ	9	33 35.80	− 0.09	+ 0.32	0 10 2.42	27.208	+ 0.2	49.6	18 33	.....	.. ..	....
	January 2, Br.												
4	Sun I, N	9	48 24.72	− 0.18	+ **0.34**	61 30 3.52	29.742	+1 51.2	**49.4**	18 48 24.88	+70.97	−22 41 25.3	....
5	Sun II, S	9	50 46.67	− 0.18	+ **0.34**	62 2 5.28	30.760	+1 53.6	**49.4**	18 50 46.83	−70.98	−23 13 58.4	....
6	β Aquarii	9	26 23.50	− 0.11	+ 0.34	44 49 58.10	28.860	+ 59.5	49.0	21 26	.....	.. ..	....
7	Venus I, S	5	48 28.80	− 0.11	+ **0.31**	52 5 59.70	31.312	+1 16.7	**49.4**	21 48 29.00	+ 1.26	−13 17 31.4	....
8	α Pegasi	9	59 52.76	− 0.09	+ 0.28	24 10 3.32	27.956	+ 26.8	49.7	22 59	.....	.. ..	....
	January 2, B.												
9	α Scorpii	9	23 23.31	− 0.20	+ 0.47	65 2 2.38	27.816	+2 8.8	51.9	16 23	.....	.. ..	....
10	ζ Ophinchi	9	31 45.19	− 0.17	+ 0.36	49 12 7.72	28.202	+1 9.7	51.5	16 31	.....	.. ..	....
11	η Ophinchi	9	4 44.82	− 0.18	+ 0.35	54 26 12.48	27.719	+1 24.2	52.4	17 4	.....	.. ..	....
12	α¹ Herculis	9	10 9.83	− 0.14	+ 0.39	24 20 11.00	29.134	+ 27.3	50.2	17 10	.....	.. ..	....
	January 3, B.												
13	Sun I, N	9	52 49.38	− 0.19	+ **0.38**	61 26 7.25	26.682	+1 50.7	**51.7**	18 52 49.57	+71.01	−22 35 59.0	....
14	Sun II, S	9	55 11.40	− 0.19	+ **0.38**	61 58 4.55	27.948	+1 53.2	**51.7**	18 55 11.59	−71.01	−23 8 34.9	....
15	ε Cygni	9	42 13.92	− 0.13	+ 0.35	5 14 9.15	29.490	+ 5.6	51.7	20 42	.....	.. ..	....
16	ζ Cygni	9	8 45.19	− 0.13	+ 0.40	9 2 14.35	26.392	+ 9.7	51.2	21 8	.....	.. ..	....
17	ε Pegasi	6	39 21.94	− 0.15	+ 0.36	29 26 13.82	25.644	+ 34.4	52.3	21 39	.....	.. ..	....
18	Venus I, S	9	50 51.60	− 0.17	+ **0.37**	51 44 15.25	30.870	+1 17.3	**51.7**	21 50 51.80	+ 1.28	−12 55 33.0	....
19	α Aquarii	8	0 44.68	− 0.16	+ 0.39	39 38 12.60	27.961	+ 50.5	52.7	22 0	.....	.. ..	....
	January 3, U.												
20	f Piscium	9	12 45.56	− 0.17	[+ 0.15]	35 44	......	....	....	1 12	.....	.. ..	....
21	α Ursæ Minoris	5	24 0.66	+ 0.99	[+ 0.98]	310 6	......	....	....	1 24	.....	.. ..	....
22	α Ursæ Minoris S. P.	9	24 4.06	− 1.60	[− 0.26]	307 40	......	....	....	1 24	.....	.. ..	....
23	η Bootis	9	50 1.39	− 0.15	[+ 0.05]	19 58	......	....	....	13 50	.....	.. ..	....
	January 3, L.												
24	ε Bootis	9	40 42.29	− 0.13	+ 0.01	11 22 8.65	27.774	+ 12.7	50.8	14 40	.....	.. ..	....
25	α² Libræ	9	45 27.71	− 0.18	+ 0.02	54 28	......	....	....	14 45	....	.. ..	....
26	Moon II, S	9	49 36.69	− 0.18	+ **0.01**	55 48 4.00	26.493	+1 32.5	**50.8**	14 49 36.52	−63.56	−16 57 33.2	....
27	β Libræ	9	11 44.12	− 0.17	+ 0.03	47 52 7.68	26.486	+1 9.5	50.1	15 11	.....	.. ..	....
28	α Coronæ Borealis	9	30 31.96	− 0.13	− 0.04	11 48 3.55	29.042	+ 13.2	50.9	15 30	.....	.. ..	....
29	α Serpentis	9	39 26.30	− 0.15	+ 0.03	32 6 3.38	29.302	+ 39.5	51.7	15 39	.....	.. ..	....
	January 4, L.												
30	Sun I, N	9	57 14.11	− 0.19	− **0.01**	61 19 59.72	27.020	+1 53.3	**50.8**	18 57 13.91	+70.99	−22 30 4.6	....
31	Sun II, S	9	59 36.10	− 0.19	− **0.01**	61 51 57.62	28.300	+1 55.9	**50.8**	18 59 35.90	−71.00	−23 2 41.6	....
32	γ Aquilæ	9	41 35.62	− 0.14	− 0.04	28 27 57.80	28.481	+ 33.6	50.7	19 41	.....	.. ..	....
33	α Aquilæ	9	45 59.73	− 0.14	− 0.05	30 14 0.28	28.121	+ 36.1	51.8	19 45	.....	.. ..	....
34	ζ Cygni	9	8 45.60	− 0.12	− 0.02	9 1 57.82	26.938	+ 9.9	50.2	21 8	.....	.. ..	....
35	β Aquarii	9	26 23.88	− 0.16	0.00	44 49 59.12	28.785	+1 1.4	49.7	21 26	.....	.. ..	....
36	ε Pegasi	9	39 22.28	− 0.14	+ 0.01	29 26 2.42	25.998	+ 34.9	51.4	21 39	.....	.. ..	....
37	α Aquarii	9	0 45.09	− 0.16	− 0.03	39 37 58.35	28.380	+ 51.2	50.9	22 0	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
1 17 30	30.130	31.5	31.9
18 35	......	....	34.0
2 18 51	30.070	34.8	34.2
21 26	29.958	37.9	37.4
21 48	29.940	37.5	38.1
23 0	29.906	39.0	38.6
16 24	29.812	34.0	32.5
16 42	29.838	33.8	32.4
17 13	29.838	34.7	32.1
3 18 55	29.820	32.0	30.4
20 44	29.850	32.3	28.5
21 11	29.858	32.0	28.4
21 35	......	....	27.0
23 4	29.884	30.0	27.0
14 41	30.154	17.0	16.2
14 50	......	....	16.7
15 12	......	....	17.0
15 31	......	....	17.3
15 39	30.180	18.1	18.0
4 18 59	30.190	23.9	23.2
19 46	30.188	25.4	24.5
21 9	30.190	27.5	26.2
21 26	......	....	26.1
21 39	......	....	26.1
22 1	30.196	28.0	26.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 13, 30.	Bisections at I, II, III.
5, 14, 31.	Bisections at V, VI, VII.
7.	Bisections at I, II.
26.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 7.9	−16 16.6	...	−16 8.7
5	+ 7.9	+16 16.5	...	+16 24.4
7	+ 15.0	+ 18.5	...	+ 33.5
13	+ 7.9	−16 17.9	...	−16 10.0
14	+ 7.9	+16 18.0	...	+16 25.9
18	+ 15.1	+ 18.8	...	+ 33.9
26	+44 38.1	+14 46.2	...	+59 24.3
30	+ 7.9	−16 18.5	...	−16 10.6
31	+ 7.9	+16 18.5	...	+16 26.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 4, S.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α² Libræ..........	9	45 27.72	— 0.14	+ 0.01	54 28	......	....	....	14 45	.....	.. ..	....
2	β Libræ..........	9	11 43.99	— 0.12	— 0.14	47 52	......	....	....	15 11	.....	.. ..	....
3	Moon II.........	9	39 49.71	— 0.14	+ **0.08**	57 46	......	....	....	15 39 49.65	—64.34	.. ..	....
4	ε Serpentis........	9	45 55.60	— 0.09	+ 0.09	34 4	......	....	....	15 45	.....	.. ..	....
5	β¹ Scorpii..........	9	59 44.18	— 0.14	+ 0.08	58 22	......	....	....	15 59	.....	.. ..	....
	January 7, L.												
6	β Herculis.........	9	26 0.61	— 0.11	— 0.65	17 8 5.12	29.918	+ 18.5	57.1	16 25	.....	.. ..	....
7	α¹ Herculis.........	9	10 10.88	— 0.12	— 0.58	24 20 7.00	29.539	+ 27.0	56.4	17 10	.....	.. ..	....
8	α Ophiuchi........	9	30 23.30	— 0.12	— 0.64	26 12 9.50	29.811	+ 29.4	55.6	17 30	.....	.. ..	....
9	α Lyræ..........	9	33 36.88	— 0.10	— 0.69	0 10 4.18	27.481	+ 0.3	57.3	18 33	.....	.. ..	....
	January 8, L.												
10	Sun I, S.........	9	14 48.10	— 0.16	— **0.64**	61 24 11.35	28.023	+1 48.1	**57.3**	19 14 47.30	+70.75	—22 34 33.1	....
11	Sun II, N.......	9	17 9.60	— 0.16	— **0.64**	60 52 10.60	26.803	+1 45.7	**57.3**	19 17 8.80	—70.75	—22 1 55.2	....
12	α Aquilæ..........	9	46 0.34	— 0.12	— 0.67	30 14 7.15	28.204	+ 34.4	58.4	19 45	.....	.. ..	....
13	ε Cygni..........	9	42 14.89	— 0.11	— 0.65	5 14 6.80	29.808	+ 5.4	57.1	20 42	.....	.. ..	....
14	ζ Cygni..........	9	8 46.22	— 0.11	— 0.67	9 2 5.92	26.940	+ 9.4	57.0	21 8	.....	.. ..	....
15	ε Pegasi..........	9	39 22.81	— 0.12	— 0.56	29 26 9.38	26.089	+ 33.2	58.8	21 39	.....	.. ..	....
16	Venus I, S.......	9	1 21.00	— 0.14	— **0.64**	49 56 10.72	31.029	+1 10.0	**57.8**	22 1 20.22	+ 1.38	—11 7 19.6	....
	January 11, U.												
17	Groombridge 750.	8	5 59.52	— 0.09	[— 0.45]	313 34	......	....	....	4 5	.....	.. ..	....
18	ε Tauri..........	9	22 56.92	— 0.12	[— 1.17]	19 54	......	....	....	4 22	.....	.. ..	....
19	ε Ursæ Minoris S. P.	9	55 50.22	— 0.05	[— 1.40]	301 4	......	....	....	16 55	.....	.. ..	....
20	η Aurigæ..........	9	59 42.49	— 0.10	[— 1.18]	357 46	......	....	....	4 59	.....	.. ..	....
21	δ Ursæ Minoris S. P.	9	3 28.17	— 0.04	[— 1.26]	305 30	......	....	....	18 3	.....	.. ..	....
22	η Geminorum......	9	9 1.37	— 0.12	[— 1.12]	16 20	......	....	....	6 9	.....	.. ..	....
23	θ Geminorum......	9	46 23.81	— 0.11	[— 1.21]	4 46	......	....	....	6 46	.....	.. ..	....
24	51 H. Cephei.......	7	55 18.31	— 0.10	[— 1.80]	311 40	......	....	....	6 55	.....	.. ..	....
	January 12, U.												
25	ε Ursæ Minoris S. P.	9	55 50.28	+ 0.01	[— 1.41]	301 4	......	....	....	16 55	.....	.. ..	....
26	η Aurigæ..........	9	59 42.77	— 0.15	[— 1.42]	357 46	......	....	....	4 59	.....	.. ..	....
27	δ Ursæ Minoris S. P.	9	3 27.88	+ 0.14	[— 1.04]	305 30	......	....	....	18 3	.....	.. ..	....
28	η Geminorum.....	9	9 1.71	— 0.17	[— 1.41]	16 20	......	....	....	6 9	.....	.. ..	....
29	θ Geminorum.....	9	46 24.12	— 0.16	[— 1.47]	4 46	......	....	....	6 46	.....	.. ..	....
30	51 H. Cephei.......	6	55 18.45	— 0.41	[— 1.61]	311 40	......	....	....	6 55	.....	.. ..	....
	January 12, Br.												
31	α¹ Herculis.........	9	10 11.87	— 0.15	— 1.44	24 20	......	....	....	17 10	.....	.. ..	....
32	α Ophiuchi........	9	30 24.30	— 0.15	— 1.51	26 12 8.10	29.899	+ 29.8	56.1	17 30	.....	.. ..	....
33	μ Herculis.........	7	42 38.28	— 0.16	— 1.49	11 4 7.40	28.895	+ 11.9	55.8	17 42	.....	.. ..	....
34	θ Herculis.........	9	52 54.21	— 0.16	— 1.53	1 36 4.08	27.019	+ 1.7	56.7	17 52	.....	.. ..	....
35	α Lyræ..........	9	33 37.91	— 0.16	— 1.59	0 10 8.12	27.325	+ 0.2	55.2	18 33	.....	.. ..	....
	January 13, Br.												
36	Sun I, S.........	9	36 33.96	— 0.12	— **1.51**	60 38 4.88	30.180	+1 46.4	**56.2**	19 36 32.33	+70.27	—21 49 27.5	....
37	Sun II, N........	9	38 54.50	— 0.12	— **1.51**	60 6 4.62	29.038	+1 44.0	**56.2**	19 38 52.87	—70.27	—21 16 52.4	....
38	Mercury C, C....	9	10 9.71	— 0.12	— **1.51**	61 4 7.65	28.048	+1 48.0	**56.2**	20 10 8.08	0.00	—22 14 31.1	....
39	ε Pegasi..........	9	39 23.73	— 0.11	— 1.51	29 26 5.30	26.176	+ 33.8	57.1	21 39	.....	.. ..	....
40	α Aquarii..........	9	0 46.44	— 0.11	— 1.47	39 38 10.05	28.276	+ 49.6	57.5	22 0	.....	.. ..	....
41	Venus I, S.......	9	9 10.37	— 0.11	— **1.50**	48 14 5.60	29.259	+1 7.1	**56.2**	22 9 8.76	+ 1.48	— 9 24 22.8	....
42	η Aquarii..........	9	30 20.79	— 0.11	— 1.50	39 28	......	....	....	22 30	.....	.. ..	....
43	Moon I..........	9	37 13.24	— 0.11	— **1.50**	43 22	......	....	....	22 37 11.63	+64.79	.. ..	....
44	α Pegasi..........	9	59 54.48	— 0.11	— 1.53	24 10 8.00	28.020	+ 27.0	55.0	22 59	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
7 16 26	29.684	34.1	34.0
17 10	......	....	34.9
17 30	29.690	35.8	35.0
18 34	......	....	37.8
19 16	29.660	39.0	38.8
19 46	......	....	40.2
20 42	29.658	42.2	42.0
21 9	......	....	42.0
21 39	......	....	41.2
22 1	29.674	42.2	41.0
12 17 10	29.576	26.0	26.0
17 30	......	....	26.3
17 43	.....	....	27.0
17 53	29.572	28.6	27.0
18 34	29.568	29.7	28.1
13 19 38	29.558	30.7	30.3
20 10	29.564	31.8	31.0
21 39	29.590	33.7	31.1
22 1	.. ...	....	31.1
22 9	29.614	33.9	30.8
23 0	29.622	32.0	30.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

10, 36. Bisections at I, II, III.
11, 37. Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
10	+ 7.9	+16 18.9	...	+16 26.8
11	+ 7.8	—16 18.9	...	—16 11.1
16	+ 15.9	+ 20.3	...	+ 36.2
36	+ 7.8	+16 17.5	...	+16 25.3
37	+ 7.8	—16 17.6	...	—16 9.8
38	+ 5.7	....	0.0	+ 5.7
41	+ 16.7	+ 21.9	...	+ 38.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 13, U.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Groombridge 750.	9	6 0.46	− 0.57	[− 1.30]	313 34	......	....	....	4 5	.....	.. ..	....
2	ε Tauri	9	22 57.26	− 0.15	[− 1.49]	19 54	......	....	....	4 22	.....	.. ..	....
3	ε Ursæ Minoris S. P.	9	55 50.17	+ 0.22	[− 1.41]	301 4	......	....	....	16 55	.....	.. ..	....
4	η Aurigæ	9	59 42.84	− 0.15	[− 1.49]	357 46	......	....	....	4 59	.....	.. ..	....
5	δ Ursæ Minoris S. P.	9	3 27.83	+ 0.60	[− 1.33]	305 30	......	....	....	18 3	.....	.. ..	....
6	η Geminorum	9	9 1.76	− 0.15	[− 1.48]	16 20	......	....	....	6 9	.....	.. ..	....
7	θ Geminorum......	9	46 24.17	− 0.15	[− 1.52]	4 46	......	....	....	6 46	.....	.. ..	....
8	51 H. Cephei	7	55 19.10	− 0.90	[− 1.80]	311 40	......	....	....	6 55	.....	.. ..	....
	January 13, B.												
9	α¹ Herculis	9	10 11.88	− 0.15	− 1.42	24 19 59.92	29.800	+ 28.0	56.3	17 10	.....	.. ..	....
10	α Ophiuchi	9	30 24.28	− 0.15	− 1.47	26 11 59.15	30.159	+ 30.3	54.9	17 30	.....	.. ..	....
11	μ Herculis.........	9	42 38.32	− 0.14	− 1.53	11 4 2.38	29.102	+ 12.0	56.5	17 42	.....	.. ..	....
	January 14, B.												
12	Sun I, S.........	9	40 53.16	− 0.18	− **1.46**	60 28 5.62	29.680	+1 46.1	**55.8**	19 40 51.52	+70.28	−21 39 14.0	....
13	Sun II, N	9	43 13.71	− 0.18	− **1.46**	59 56 4.12	28.558	+1 43.8	**55.8**	19 43 12.07	−70.27	−21 6 38.4	....
14	Venus I, S	9	10 22.73	− 0.16	− **1.44**	47 53 57.82	30.416	+1 6.3	**55.8**	22 10 21.13	+ 1.50	− 9 4 47.5	....
15	ζ Pegasi	9	36 35.99	− 0.15	− 1.39	28 31 58.72	27.125	+ 32.6	55.0	22 36	.....	.. ..	....
16	α Pegasi	9	59 54.43	− 0.15	− 1.45	24 9 58.95	28.345	+ 26.9	55.0	22 59	.....	.. ..	....
17	Moon I, S	9	29 4.57	− 0.16	− **1.43**	38 54 3.65	30.585	+ 48.4	**55.8**	23 29 2.98	+65.26	− 0 4 40.4	....
18	ι Piscium	9	34 56.40	− 0.15	− 1.43	33 46 3.52	25.725	+ 40.1	56.3	23 34	.....	.. ..	....
19	ω Piscium	9	54 18.69	− 0.15	− 1.45	32 32 8.08	26.592	+ 38.3	56.3	23 54	.....	.. ..	....
	January 14, U.												
20	Groombridge 750.	9	6 0.11	− 0.43	[− 1.29]	313 34	......	....	....	4 5	.....	.. ..	....
21	ε Tauri	9	22 57.41	− 0.15	[− 1.65]	19 54	......	....	....	4 22	.....	.. ..	....
22	ε Ursæ Minoris S. P.	9	55 50.52	+ 0.11	[− 1.54]	301 4	......	....	....	16 55	.....	.. ..	....
23	η Aurigæ	9	59 42 94	− 0.15	[− 1.60]	357 46	......	....	....	4 59	.....	.. ..	....
24	δ Ursæ Minoris S. P.	9	3 28.64	+ 0.38	[− 1.79]	305 30	......	....	....	18 3	.....	.. ..	....
25	η Geminorum	9	9 1.89	− 0.15	[− 1.61]	16 20	......	....	....	6 9	.....	.. ..	....
26	θ Geminorum	9	46 24.26	− 0.15	[− 1.61]	4 46	......	....	....	6 46	.....	.. ..	....
27	51 H. Cephei	7	55 18.66	− 0.66	[− 1.64]	311 40	......	....	....	6 55	.....	.. ..	....
	January 14, L.												
28	α¹ Herculis.........	9	10 12.21	− 0.16	− 1.72	24 20 6.12	29.492	+ 27.3	52.9	17 10	.....	.. ..	....
29	α Ophiuchi........	9	30 24.56	− 0.16	− 1.72	26 12 8.05	29.824	+ 29.6	53.3	17 30	.....	.. ..	....
30	μ Herculis.........	9	42 38.54	− 0.16	− 1.71	11 4 13.48	28.692	+ 11.8	55.5	17 42	.....	.. ..	....
31	α Lyræ	9	33 38.21	− 0.16	− 1.86	0 10 9.22	27.309	+ 0.2	55.2	18 33	.....	.. ..	....
	January 15, L.												
32	Sun I, N.........	9	45 11.97	− 0.15	− **1.71**	59 46 10.42	27.040	+1 40.7	**55.1**	19 45 10.11	+70.20	−20 55 58.9	....
33	Sun II, S........	9	47 32.37	− 0.15	− **1.71**	60 18 9.18	28.210	+1 42.8	**55.1**	19 47 30.51	−70.20	−21 28 33.3	....
34	Mercury C, C....	9	24 19.83	− 0.14	− **1.70**	60 16 8.78	28.662	+1 42.2	**55.4**	20 24 17.99	+ 0.01	−21 26 44.7	....
35	ε Cygni	9	42 15.93	− 0.15	− 1.66	5 14 9.62	29.730	+ 5.4	55.8	20 42	.....	.. ..	....
36	ζ Cygni	9	8 47.21	− 0.14	− 1.65	9 2 9.55	26.826	+ 9.4	55.8	21 8	.....	.. ..	....
37	ε Pegasi...........	8	39 23.96	− 0.13	− 1.72	29 26 11.92	25.969	+ 32.9	56.7	21 39	.....	.. ..	....
38	Venus I, S.......	9	11 27.73	− 0.12	− **1.68**	47 36 9.55	27.561	+1 3.7	**56.3**	22 11 25.93	+ 1.53	− 8 45 34.8	....
39	α Pegasi...........	9	59 54.63	− 0.12	− 1.68	24 10 10.35	27.995	+ 26.1	55.5	22 59	.....	.. ..	....
40	α Andromedæ	9	34 21.61	− 0.14	− 1.69	10 18 10.10	27.880	+ 10.6	57.2	0 3	.....	.. ..	....
41	γ Pegasi...........	9	8 13.60	− 0.12	− 1.67	24 12 9.90	28.758	+ 26.2	54.6	0 8	.....	.. ..	....
42	Moon I, S	9	21 56.52	− 0.11	− **1.68**	34 10 7.60	29.145	+ 39.6	**56.2**	0 21 54.73	+66.21	+ 4 40 5.9	....
43	δ Piscium	9	43 38.27	− 0.11	− 1.68	31 48 9.60	26.980	+ 36.2	56.9	0 43	.....	.. ..	....
44	ε Piscium	9	57 53.91	− 0.11	− 1.69	31 30 7.55	25.685	+ 35.7	55.9	0 57	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
13 16 54	29.922	21.2	21.2
17 19	29.938	23.4	23.4
17 45	29.934	25.8	26.0
14 19 43	29.900	32.8	33.6
22 6	29.870	37.5	35.5
22 40	29.868	37.0	35.0
23 30	......	....	34.8
23 57	29.860	36.0	34.0
17 10	29.732	29.8	31.[illegible]
17 30	......	....	32.1
17 43	29.728	32.1	33.0
18 34	......	....	37.[illegible]
15 19 47	29.668	39.5	41.[illegible]
20 24	29.650	42.0	43.[illegible]
20 42	......	....	43.8
21 9	......	....	44.[illegible]
21 39	29.640	44.8	45.[illegible]
22 11	......	....	45.[illegible]
23 0	29.640	45.9	46.0
0 8	29.646	44.9	45.9
0 44	......	....	44.7
0 58	29.644	44.3	44.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

12, 32. Bisections at I, II, III.
13, 33. Bisections at V, VI, VII.
17, 42. Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
12	+ 7.8	+16 17.8	...	+16 25.6
13	+ 7.8	−16 17.8	...	−16 10.0
14	+ 16.9	+ 22.3	...	+ 39.2
17	+36 5.8	+15 44.5	...	+51 50.3
32	+ 7.8	16 17.2	...	−16 9.4
33	+ 7.8	+16 17.2	...	+16 25.0
34	+ 5.7	....	0.0	+ 5.7
38	+ 17.2	+ 22.7	...	+ 39.9
42	+32 33.1	+15 53.0	...	+48 26.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 16, U.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Groombridge 750.	9	6 1.26	— 1.36	[— 1.88]	313 34	......	....	....	4 5	.....	.. ..	....
2	ε Tauri	9	22 57.40	— 0.19	[— 1.61]	19 54	......	....	....	4 22	.....	.. ..	....
3	ε Ursæ Minoris S. P.	9	55 50.08	+ 0.63	[— 1.46]	301 4	......	....	....	16 55	.....	.. ..	....
4	η Aurigæ	9	59 43.04	— 0.22	[— 1.65]	357 46	......	....	....	4 59	.....	.. ..	....
5	θ Geminorum	9	46 24.31	— 0.19	[— 1.61]	4 46	......	....	....	6 46	.....	.. ..	....
6	51 H. Cephei	7	55 20.67	— 1.92	[— 2.48]	311 40	......	....	....	6 55	.....	.. ..	....
	January 16, B.												
7	η Ophiuchi	9	4 46.99	— 0.04	— 1.62	305 26 3.32	28.400	—1 25.6	27.6	17 4	.....	.. ..	....
8	α Ophiuchi	9	30 24.30	— 0.01	— 1.56	333 40 1.88	26.494	— 30.1	26.5	17 30	.....	.. ..	....
9	μ Herculis	9	42 38.28	+ 0.01	— 1.58	348 47 58.80	27.596	— 12.0	26.3	17 42	.....	.. ..	....
10	θ Herculis	9	52 54.07	+ 0.03	— 1.50	358 15 55.88	29.724	— 1.8	26.5	17 52	.....	.. ..	....
	January 17, B.												
11	Sun I, S	9	53 46.61	— 0.03	— **1.55**	299 56 12.62	29.113	—1 44.4	**27.0**	19 53 45.03	+70.05	—21 5 56.3	....
12	Sun II, N	9	56 6.70	— 0.03	— **1.55**	300 28 11.12	30.365	—1 42.2	**27.0**	19 56 5.12	—70.04	—20 33 20.2	....
13	Mercury I, C	4	38 20.73	— 0.03	— **1.55**	300 30 10.50	27.460	—1 41.8	**27.0**	20 38 19.15	+ 0.29	—20 32 43.0	....
14	Mercury II	5	38 21.27	— 0.03	— **1.55**	... .	.....	....	....	20 38 19.69	— 0.25	.. ..	....
15	ε Cygni	9	42 15.60	+ 0.06	— 1.54	354 35 58.15	30.961	— 5.6	27.0	20 42	.....	.. ..	....
16	ε Pegasi	9	39 23.58	+ 0.03	— 1.50	330 26 3.02	30.350	— 33.9	27.6	21 39	.....	.. ..	....
17	Venus I, S	9	13 13.04	+ 0.04	— **1.55**	312 54 0.22	26.865	—1 4.3	**27.0**	22 13 11.53	+ 1.58	— 8 8 32.9	....
18	ζ Pegasi	9	36 36.00	+ 0.04	— 1.61	331 19 59.12	29.706	— 32.7	27.7	22 36	.....	.. ..	....
19	λ Pegasi	9	41 50.07	+ 0.06	— 1.53	344 3 58.08	28.880	— 17.0	26.9	22 41	.....	.. ..	....
20	α Arietis	9	1 41.62	+ 0.06	— 1.59	344 0 3.20	30.414	— 17.2	22.2	2 1	.....	.. ..	....
21	ξ¹ Ceti	9	7 50.90	+ 0.04	— 1.53	329 23 59.25	29.541	— 35.5	24.4	2 7	.....	.. ..	....
22	Moon I, S	9	13 41.56	+ 0.05	— **1.55**	334 13 56.50	29.565	— 29.0	**23.6**	2 13 40.06	+69.29	+13 13 19.0	....
23	ξ² Ceti	9	22 59.59	+ 0.04	— 1.57	329 2 2.38	29.456	— 36.1	23.2	2 22	.....	.. ..	....
24	δ Ceti	9	34 30.21	+ 0.03	— 1.52	320 56 1.18	27.986	— 48.8	24.8	2 34	.....	.. ..	....
	January 17, U.												
25	Groombridge 750.	9	5 59.12	+ 0.45	[— 1.72]	46 18	......	....	....	4 5	.....	.. ..	....
26	ε Tauri	9	22 57.24	+ 0.04	[— 1.69]	339 58	......	....	....	4 22	.....	.. ..	....
27	ε Ursæ Minoris S. P.	9	55 51.15	— 0.26	[— 1.49]	58 48	......	....	....	16 55	.....	.. ..	....
28	η Aurigæ	9	59 42.73	+ 0.05	[— 1.61]	2 8	......	....	....	4 59	.....	.. ..	....
29	δ Ursæ Minoris S. P.	9	3 29.78	— 0.62	[— 1.54]	54 22	......	....	....	18 3	.....	.. ..	....
30	η Geminorum	9	9 1.71	+ 0.04	[— 1.61]	343 34	......	....	....	6 9	.....	.. ..	....
31	θ Geminorum	9	46 24.17	+ 0.05	[— 1.70]	355 6	......	....	....	6 46	.....	.. ..	....
32	51 H. Cephei	7	55 17.30	+ 0.77	[— 1.85]	48 12	......	....	....	6 55	.....	.. ..	....
	January 19, S.												
33	η Tauri	9	41 42.74	+ 0.05	— 1.49	344 48 4.50	30.559	— 16.4	22.3	3 41	.....	.. ..	....
34	A¹ Tauri	9	58 57.38	+ 0.05	— 1.50	342 50 8.25	27.788	— 18.7	22.9	3 58	.....	.. ..	....
35	Moon I, S	9	16 12.96	+ 0.05	— **1.49**	339 32 9.98	28.449	— 22.6	**22.6**	4 16 11.52	+72.28	+18 31 8.0	....
36	α Tauri	9	30 21.22	+ 0.05	— 1.52	337 20 7.15	27.685	— 25.3	22.4	4 30	.....	.. ..	....
37	i Tauri	9	45 41.88	+ 0.05	— 1.45	339 42 8.12	26.825	— 22.5	22.9	4 45	.....	.. ..	....
38	α Orionis	9	49 55.56	+ 0.05	— 1.51	328 24 8.05	29.202	— 37.4	24.7	5 49	.....	.. ..	....
39	Neptune C, C	9	57 4.68	+ 0.05	— **1.50**	343 18 5.45	25.165	— 18.2	**24.1**	5 57 3.23	.....	+22 15 32.8	....
40	η Geminorum	9	9 1.54	+ 0.05	— 1.45	343 33 57.32	26.371	— 17.9	23.9	6 9	.....	.. ..	....
41	ν Geminorum	9	23 12.51	+ 0.05	— 1.53	341 18 8.95	26.732	— 20.6	23.8	6 23	.....	.. ..	....
	January 19, Br.												
42	η Ophiuchi	7	4 46.98	0.00	— 1.57	305 26 8.42	28.125	—1 26.3	24.2	17 4	.....	.. ..	....
43	π Herculis	9	11 38.82	+ 0.05	— 1.62	357 55 59.10	27.988	— 2.2	21.9	17 11	.....	.. ..	....
44	α Ophiuchi	9	30 24.33	+ 0.02	— 1.55	333 40 9.20	26.094	— 30.4	22.7	17 30	.....	.. ..	....
45	ο Herculis	9	3 44.00	+ 0.05	— 1.54	349 46 2.35	27.825	— 11.0	21.2	18 3	.....	.. ..	....
46	α Lyræ	9	33 37.72	+ 0.08	— 1.53	359 42 2.50	28.802	— 0.2	22.1	18 33	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
16 17 6	29.760	24.8	23.0
17 40	29.762	25.4	24.7
17 55	29.764	26.3	25.2
17 19 56	29.746	29.9	27.9
20 36	29.736	31.1	29.8
21 41	29.744	34.0	31.7
22 15	29.754	34.8	32.0
22 44	29.764	35.0	32.3
2 3	29.782	32.0	30.3
2 37	29.794	31.2	30.2
19 3 37	30.068	33.7	32.7
4 46	30.072	31.9	30.0
5 50	30.068	31.0	29.3
6 23	30.064	30.2	29.0
17 5	30.126	24.8	25.0
17 12	....	....	25.0
17 30	30.136	27.1	25.3
18 4	....	....	27.0
18 34	30.132	30.6	28.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7, 39, 43. Bisections at VI, VII.
11. Bisections at I, II, III.
12. Bisections at V, VI, VII.
22, 35. Bisections at II, III, IV, V, VI.
36. Bisection at I, II, VII.
45. Bisection at II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
11	+ 7.8	+16 18.0	...	+16 25.8
12	+ 7.7	—16 18.0	...	—16 10.3
13	+ 5.8	....	0.0	+ 5.8
17	+ 17.5	+ 23.4	...	+ 40.9
22	+25 27.5	+16 9.4	...	+41 36.9
35	+20 40.2	+16 20.9	...	+37 1.1
39	+ 0.1	....	...	+ 0.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 20, Br.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N	9	6 33.60	+ 0.02	— **1.60**	301 6 11.70	27.577	—1 40.2	**22.4**	20 6 32.02	+69.64	—19 56 32.2	....
2	Sun II, S........	8	8 52.89	+ 0.02	— **1.60**	300 34 11.78	26.502	—1 42.3	**22.4**	20 8 51.31	—69.65	—20 29 5.1	....
3	Mercury C, C....	9	58 58.92	+ 0.03	— **1.61**	302 2 7.20	27.712	—1 36.2	**22.4**	20 58 57.34	+ 0.02	—19 0 28.9	....
4	ε Pegasi...........	8	39 23.75	+ 0.07	— 1.72	330 26 3.82	30.188	— 34.2	23.9	21 39	.....	.. ..	....
5	Venus I, S.......	9	14 49.20	+ 0.05	— **1.63**	313 46 0.72	25.902	—1 2.9	**22.4**	22 14 47.62	+ 1.65	— 7 16 53.8	....
6	λ Pegasi...........	9	41 50.06	+ 0.10	— 1.58	344 4 2.52	28.556	— 17.1	22.4	22 41	.....	.. ..	....
7	α Pegasi...........	9	59 54.29	+ 0.09	— 1.59	335 42 5.85	27.991	— 27.2	20.8	22 59	.....	.. ..	....
8	i Tauri............	9	45 41.98	+ 0.03	— 1.54	339 42 3.78	26.996	— 22.5	23.5	4 45	.....	.. ..	....
9	11 Orionis..........	9	59 1.67	+ 0.03	— 1.52	336 18 7.72	26.261	— 26.8	23.4	4 59	.....	.. ..	....
10	Moon I, S.........	9	20 30.18	+ 0.03	— **1.54**	340 16 5.60	27.921	— 21.9	**24.2**	5 20 28.67	+72.81	+19 14 47.7	....
11	χ Aurigæ..........	9	26 24.90	+ 0.04	— 1.54	353 8 4.30	28.145	— 7.3	23.8	5 26	.....	.. ..	....
12	ε Orionis..........	9	31 17.94	+ 0.03	— 1.54	319 46 2.28	27.374	— 51.6	25.7	5 31	.....	.. ..	....
13	α Orionis..........	9	49 55.62	+ 0.03	— 1.55	328 24 8.28	29.189	— 37.5	24.6	5 49	.....	.. ..	....
	January 23, Br.												
14	κ Orionis..........	9	43 10.18	+ 0.07	— 1.76	311 20 3.25	26.905	—1 7.8	23.3	5 43	.....	.. ..	....
15	α Orionis..........	9	49 55.67	+ 0.08	— 1.66	328 24 2.28	29.365	— 36.7	24.6	5 49	.....	.. ..	....
16	Neptune C, C	9	56 40.88	+ 0.10	— **1.72**	343 16 0.05	29.761	— 17.9	**23.6**	5 56 39.26	.....	+22 15 39.0	....
17	η Geminorum	9	9 1.74	+ 0.10	— 1.71	343 34 1.55	26.199	— 17.6	23.5	6 9	.....	.. ..	....
18	μ Geminorum	9	17 5.98	+ 0.10	— 1.77	343 35 59.92	25.632	— 17.5	22.8	6 17	.....	.. ..	....
19	ζ¹ Cancri	9	6 39.57	+ 0.09	— 1.72	338 58 4.48	27.073	— 22.9	22.4	8 6	.....	.. ..	....
20	β Cancri	9	11 16.07	+ 0.08	— 1.76	330 30 6.30	28.785	— 33.7	23.4	8 11	.....	.. ..	....
21	30 Monocerotis	9	20 49.81	+ 0.08	— 1.74	317 26 4.80	28.599	— 54.8	23.0	8 20	.....	.. ..	....
22	Moon II, S	9	30 41.76	+ 0.09	— **1.72**	334 12 7.38	26.999	— 28.8	**23.0**	8 30 40.13	—69.18	+13 10 17.5	....
23	γ Cancri	9	37 40.97	+ 0.10	— 1.71	342 50 7.32	28.170	— 18.4	22.7	8 37	.....	.. ..	....
24	ε Hydræ..........	9	41 39.12	+ 0.08	— 1.69	327 48 10.85	27.585	— 37.6	23.3	8 41	.....	.. ..	....
	January 27, Br.												
25	β Leonis	9	44 6.86	+ 0.09	— 1.52	336 8 4.30	28.290	— 27.5	19.5	11 44	.....	.. ..	....
26	π Virginis	9	55 54.28	+ 0.07	— 1.57	328 10 6.88	29.672	— 38.6	20.9	11 55	.....	.. ..	....
27	Moon II, S........	9	3 34.57	+ 0.05	— **1.60**	316 34 9.88	27.735	— 58.9	**19.4**	12 3 33.02	—63.36	— 4 27 45.5	....
28	γ Corvi............	9	10 49.42	+ 0.03	— 1.67	304 2 9.92	28.434	—1 32.0	18.5	12 10	.....	.. ..	....
29	δ² Corvi............	9	24 50.99	+ 0.03	— 1.66	305 4 9.20	27.659	—1 28.6	18.5	12 24	.....	.. ..	....
	January 27, B.												
30	α Ophiuchi	9	30 24.32	+ 0.08	— 1.42	333 40 3.88	26.072	— 31.2	17.6	17 30	.....	.. ..	....
31	μ Herculis..........	9	42 38.30	+ 0.11	— 1.44	348 48 2.92	27.095	— 12.4	18.4	17 42	.....	.. ..	....
32	θ Herculis..........	9	52 54.12	+ 0.14	— 1.40	358 16 1.40	29.130	— 1.8	18.2	17 52	.....	.. ..	....
33	o Herculis..........	9	3 43.94	+ 0.12	— 1.38	349 45 59.55	27.795	— 11.3	19.3	18 3	.....	.. ..	....
	January 28, B.												
34	Sun I, N	9	40 4.54	+ 0.02	— **1.39**	303 0 10.35	28.123	—1 36.0	**18.5**	20 40 3.17	+68.79	—18 2 9.8	....
35	Sun II, S.........	9	42 22.12	+ 0.02	— **1.39**	302 28 4.68	27.330	—1 38.0	**18.5**	20 42 20.75	—68.79	—18 34 40.5	....
36	ζ Cygni...........	9	8 46.71	+ 0.12	— 1.40	350 50 11.25	28.795	— 10.0	17.7	21 8	.....	.. ..	....
37	ε Pegasi...........	9	39 23.41	+ 0.07	— 1.37	330 26 12.52	29.751	— 35.3	20.0	21 39	.....	.. ..	....
38	Mercury C, C	9	49 7.44	+ 0.02	— **1.38**	307 0 13.45	26.610	—1 22.5	**18.5**	21 49 6.08	+ 0.05	—14 2 36.5	....
39	Venus I, S	9	12 28.77	+ 0.04	— **1.38**	315 32 5.62	27.721	—1 1.2	**18.5**	22 12 27.43	+ 1.84	— 5 29 51.5	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
20 20 9	30.096	34.0	31.6
20 59	30.062	35.3	32.6
21 39	30.042	35.8	32.8
22 15	30.038	36.0	33.5
22 42	......	....	34.0
23 0	30.042	36.4	34.0
4 46	29.988	28.7	27.0
4 59	......	....	27.0
5 21	......	....	26.9
5 31	29.990	28.1	26.7
5 50	......	....	26.2
23 5 43	29.680	33.0	32.5
5 57	......	....	32.5
6 17	29.668	32.9	32.6
8 7	29.664	32.0	31.9
8 21	......	....	31.9
8 31	......	....	32.0
8 42	29.660	32.0	32.0
27 11 44	30.304	24.0	22.3
12 11	......	....	22.0
12 25	30.316	23.3	21.9
17 31	30.464	21.0	19.5
18 5	30.456	21.2	19.8
28 20 43	30.450	25.8	22.7
21 14	30.430	26.7	22.8
21 52	30.440	27.4	24.3
22 18	30.430	27.2	23.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 34.	Bisections at I, II, III.
2, 35.	Bisections at V, VI, VII.
4.	Bisections at I, VI, VII.
10, 22, 27.	Bisections at II, III, IV, V, VI.
11, 25.	Bisections at VI, VII.
19, 20.	Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 7.7	—16 16.5	...	—16 8.8
2	+ 7.7	+16 16.4	...	+16 24.1
3	+ 5.8	....	0.0	+ 5.8
5	+ 18.2	+ 24.5	...	+ 42.7
10	+19 59.8	+16 23.0	...	+36 22.8
16	+ 0.1	....	...	+ 0.1
22	+25 28.1	+16 7.9	...	+41 36.0
27	+38 16.6	+15 17.1	...	+53 33.7
34	+ 7.5	—16 15.3	...	—16 7.8
35	+ 7.6	+16 15.3	...	+16 22.9
38	+ 6.3	....	+ 0.2	+ 6.5
39	+ 19.1	+ 27.6	...	+ 46.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 28, U.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Groombridge 750.	5	5 55.46	+ 1.72	[− 1.51]	46 18	......	....	....	4 5	.....	.. ..	....
2	ε Tauri	9	22 56.87	+ 0.07	[− 1.47]	339 58	......	....	....	4 22	.....	.. ..	....
3	ε Ursæ Minoris S. P.	9	55 52.94	− 1.02	[− 1.32]	58 48	......	....	....	16 55	.....	.. ..	....
4	η Aurigæ..........	8	59 42.34	+ 0.14	[− 1.44]	2 8	......	....	....	4 59	.....	.. ..	....
	February 2, Br.												
5	κ Ophiuchi.........	9	53 3.21	+ 0.14	− 1.37	330 34 10.72	25.586	− 35.0	22.9	16 53	.....	.. ..	....
6	Moon II	9	2 57.47	+ 0.15	− **1.38**	300 34	.. ....	....	....	17 2 56.24	−65.38	.. ..	....
7	α^{1} Herculis..........	9	10 12.04	+ 0.14	− 1.37	335 32 10.75	26.265	− 28.2	20.9	17 10	.....	.. ..	....
8	α Ophiuchi.........	9	30 24.42	+ 0.14	− 1.42	333 40 11.48	25.871	− 30.7	21.0	17 30	.....	.. ..	....
9	μ Herculis	9	42 38.37	+ 0.14	− 1.39	348 48 6.75	26.971	− 12.2	20.3	17 42	.....	.. ..	....
	February 3, Br.												
10	Sun I, N..........	9	4 39.47	+ 0.16	− **1.44**	304 40 35.10	26.680	−1 29.0	**20.6**	21 4 38.19	+68.15	−16 22 21.3	....
11	Sun II, S	9	6 55.78	+ 0.16	− **1.44**	304 8 3.62	26.727	−1 30.8	**20.6**	21 6 54.50	−68.16	−16 54 53.7	....
12	ε Pegasi...........	9	39 23.48	+ 0.16	− 1.51	330 26 4.40	30.016	− 34.8	20.7	21 39	.....	.. ..	....
13	Venus I, S.........	9	4 22.13	+ 0.17	− **1.46**	316 14 8.22	28.142	− 58.7	**20.5**	22 4 20.84	+ 1.98	− 4 47 36.4	....
14	Mercury I, C......	9	16 22.93	+ 0.17	− **1.46**	310 52 8.42	26.490	−1 10.7	**20.4**	22 16 21.64	+ 0.23	−10 10 35.1	....
15	ζ Pegasi	9	36 35.67	+ 0.17	− 1.48	331 20 10.62	28.997	− 33.4	20.4	22 36	.....	.. ..	....
16	λ Pegasi	9	41 49.73	+ 0.17	− 1.39	344 4 8.60	28.227	− 17.4	21.2	22 41	.....	.. ..	....
17	α Pegasi	9	59 54.01	+ 0.17	− 1.47	335 42 7.65	27.822	− 27.6	19.2	22 59	.....	.. ..	....
	February 3, U.												
18	Groombridge 750.	9	5 54.74	+ 0.84	[− 1.23]	46 18	......	....	....	4 5	.....	.. ..	....
19	ε Tauri	9	22 56.63	+ 0.15	[− 1.38]	339 58	......	....	....	4 22	.....	.. ..	....
20	ε Ursæ Minoris S. P.	9	55 53.00	− 0.27	[− 1.34]	58 48	......	....	....	16 55	.....	.. ..	....
21	η Aurigæ..........	9	59 42.05	+ 0.18	[− 1.28]	2 8	......	....	....	4 59	.....	.. ..	....
22	δ Ursæ Minoris S. P.	9	3 33.06	− 0.67	[− 1.82]	54 22	......	....	....	18 3	.....	.. ..	....
23	η Geminorum	9	9 1.23	+ 0.16	[− 1.32]	343 34	......	....	....	6 9	.....	.. ..	....
24	θ Geminorum	9	46 23.71	+ 0.16	[− 1.37]	355 6	......	....	....	6 46	.....	.. ..	....
25	51 H. Cephei	8	55 15.49	+ 0.61	[− 1.60]	48 12	......	....	....	6 55	.....	.. ..	....
	February 4, U.												
26	Groombridge 750.	9	5 55.18	+ 0.99	[− 2.03]	46 18	......	....	....	4 5	.....	.. ..	....
27	ε Tauri	9	22 56.67	+ 0.15	[− 1.44]	339 58	......	....	....	4 22	.....	.. ..	....
28	ε Ursæ Minoris S. P.	9	55 53.33	− 0.36	[− 1.46]	58 48	......	....	....	16 55	.....	.. ..	....
29	η Aurigæ..........	9	59 42.13	+ 0.17	[− 1.37]	2 8	......	....	....	4 59	.....	.. ..	....
30	δ Ursæ Minoris S. P.	9	3 33.26	− 0.64	[− 1.85]	54 22	......	....	....	18 3	.....	.. ..	....
31	η Geminorum	9	9 1.28	+ 0.13	[− 1.35]	343 34	......	....	....	6 9	.....	.. ..	....
32	θ Geminorum	9	46 23.81	+ 0.13	[− 1.45]	355 6	......	....	....	6 46	.....	.. ..	....
33	51 H. Cephei	7	55 15.09	+ 0.70	[− 1.43]	48 12	......	....	....	6 55	.....	.. ..	....
	February 4, L.												
34	η Serpentis........	9	16 15.79	+ 0.10	− 1.52	318 6 22.85	28.023	− 56.1	23.5	18 16	.....	.. ..	....
35	α Lyræ	9	33 37.93	+ 0.11	− 1.44	359 42 6.70	28.488	− 0.2	21.9	18 33	.....	.. ..	....
36	β Lyræ	9	46 28.57	+ 0.11	− 1.48	354 16 8.90	27.419	− 6.2	23.1	18 46	.....	.. ..	....
37	α Aquilæ..........	9	46 1.33	+ 0.10	− 1.55	329 38 11.58	27.731	− 36.4	21.7	19 45	.....	.. ..	....
	February 5, L.												
38	Sun I, S..........	9	12 44.82	+ 0.09	− **1.47**	304 44 13.68	25.755	−1 29.2	**21.5**	21 12 43.44	+68.00	−16 19 10.2	....
39	Sun II, N..........	9	15 0.82	+ 0.09	− **1.47**	305 16 15.30	26.802	−1 27.5	**21.5**	21 14 59.44	−68.00	−15 46 37.5	....
40	ε Pegasi	9	39 23.53	+ 0.10	− 1.49	330 26 17.85	29.670	− 35.1	[24.2]	21 39	.....	.. ..	....
41	Venus I, S........	9	0 35.97	+ 0.10	− **1.46**	316 20 14.58	27.121	− 59.1	**21.2**	22 0 34.61	+ 2.01	− 4 42 0.3	....
42	Mercury C, C....	9	21 57.44	+ 0.10	− **1.45**	311 58 16.22	25.839	−1 8.8	**21.0**	22 21 56.09	+ 0.11	− 9 4 44.6	....
43	ζ Pegasi	9	36 35.71	+ 0.10	− 1.45	331 20	......	....	....	22 36	.....	.. ..	.. .
44	α Pegasi	9	59 54.02	+ 0.10	− 1.42	335 42 13.40	27.642	− 27.9	19.8	22 59	.....	.. ..	....
45	α Andromedæ	9	3 20.83	+ 0.11	− 1.42	349 34 17.18	27.701	− 11.4	21.2	0 3	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
2	16	53	29.684	16.1	15.0
	17	10	......	....	15.0
	17	30	29.682	15.8	14.9
	17	43	29.682	15.9	15.0
3	21	7	29.738	21.2	17.9
	21	39	29.716	21.8	19.8
	22	4	29.712	22.6	20.3
	22	16	29.712	23.1	20.5
	22	37	.....	....	21.0
	22	42	......	....	21.1
	23	0	29.720	24.7	21.4
4	18	16	29.810	12.9	12.3
	18	34	......	....	13.7
	18	46	29.830	14.0	14.3
	19	46	29.846	18.0	15.6
5	21	15	29.824	19.0	17.0
	21	39	... ..	....	17.2
	22	1	.... .	....	17.2
	22	22	29.838	20.2	17.9
	23	0	29.820	21.0	17.8
	0	3	29.850	21.3	18.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

10, 38. Bisections at I, II, III.
11, 39. Bisections at V, VI, VII.
13, 35. Bisections at VI, VII.
15. Bisections at II, VI, VII.
16. Bisections at I, II, VI.
34. Bisections at I, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
10	+ 7.4	−16 16.2	...	−16 8.8
11	+ 7.4	+16 16.2	...	+16 23.6
13	+ 21.0	+ 29.6	...	+ 50.6
14	+ 7.0	....	+ 0.5	+ 7.5
38	+ 7.3	+16 16.3	...	+16 23.6
39	+ 7.3	−16 16.4	...	−16 9.1
41	+ 21.3	+ 30.1	...	+ 51.4
42	+ 7.3	....	+ 0.7	+ 8.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	February 5, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	θ Herculis.........	9	52 54.17	+ 0.19	— 1.27	358 16 12.78	28.791	— 1.8	22.1	17 52	.....	.. ..	....
2	ο Herculis.........	9	3 44.08	+ 0.16	— 1.34	349 46 9.72	27.491	— 11.2	22.9	18 3	.....	.. ..	....
3	α Lyræ	9	33 37.69	+ 0.19	— 1.25	359 42 6.22	28.482	— 0.2	21.3	18 33	.....	.. ..	....
4	β Lyræ	9	46 28.31	+ 0.18	— 1.27	354 16 3.48	27.552	— 6.2	21.8	18 46	.....	.. ..	....
	February 6, Br.												
5	Sun I, S.........	8	16 45.99	+ 0.09	— **1.23**	305 2 2.22	26.618	—1 26.8	**22.0**	21 16 44.85	+67.76	—16 0 55.2	....
6	Sun II, N	9	19 1.51	+ 0.09	— **1.23**	305 34 1.58	27.715	—1 25.1	**22.0**	21 19 0.37	—67.76	—15 28 23.3	....
7	Venus I, S	9	58 32.72	+ 0.12	— **1.21**	316 22 8.20	25.609	— 57.9	**22.0**	21 58 31.63	+ 2.03	— 4 40 49.3	....
8	Mercury I, C	9	23 53.42	+ 0.12	— **1.21**	312 26 11.78	27.702	—1 6.3	**22.0**	22 23 52.33	+ 0.25	— 8 35 54.4	....
9	α Pegasi	9	59 53.79	+ 0.16	— 1.25	335 42 12.42	27.662	— 27.3	20.0	22 59	.....	.. ..	....
10	α Andromedæ	9	3 20.48	+ 0.18	— 1.15	349 34 11.70	27.910	— 11.0	22.2	0 3	.....	.. ..	....
11	π Andromedæ	9	31 40.11	+ 0.18	— 1.14	354 12 4.90	27.664	— 6.1	22.2	0 31	.....	.. ..	....
12	β Ceti............	9	38 41.43	+ 0.13	— 1.22	302 30 12.65	29.416	—1 34.1	22.5	0 38	.....	.. ..	....
13	μ Andromedæ	9	51 20.22	+ 0.19	— 1.10	358 58 6.40	30.181	— 1.0	22.6	0 51	.....	.. ..	....
	February 6, B.												
14	α Lyræ............	9	33 37.27	+ 0.22	— 0.84	359 41 51.25	28.968	— 0.2	20.5	18 33	.....	.. ..	....
15	β Lyrae	9	46 27.93	+ 0.21	— 0.90	354 16 5.82	27.450	— 6.0	21.6	18 46	.....	.. ..	....
16	γ Lyræ	7	55 16.89	+ 0.21	— 0.92	353 34 4.90	28.295	— 6.7	21.1	18 55	.....	.. ..	....
17	ζ Aquilæ	9	0 54.97	+ 0.19	— 0.98	334 44 7.90	28.510	— 28.3	20.8	19 0	.....	.. ..	....
	February 7, B.												
18	Sun I, S.........	9	20 46.28	+ 0.16	— **0.85**	305 20 11.80	27.265	—1 22.9	**21.2**	21 20 45.59	+67.65	—15 42 22.4	....
19	Sun II, N	9	23 1.58	+ 0.16	— **0.85**	305 52 11.80	28.240	—1 21.3	**21.2**	21 23 0.89	—67.65	—15 9 53.5	....
20	ε Pegasi...........	9	39 22.83	+ 0.18	— 0.87	330 26 9.28	29.841	— 33.4	22.5	21 39	.....	.. ..	....
21	Venus I, S	9	56 23.53	+ 0.16	— **0.83**	316 22 10.92	25.540	— 56.1	**21.2**	21 56 22.86	+ 2.04	— 4 40 45.9	....
22	α Aquarii..........	6	0 45.52	+ 0.17	— 0.82	320 14 9.70	27.598	— 49.0	22.1	22 0	.....	.. ..	....
23	Mercury I, C.....	9	25 12.56	+ 0.16	— **0.82**	312 52 8.98	26.704	—1 3.4	**21.2**	22 25 11.90	[illegible]	— 8 10 22.0	....
24	ζ Pegasi...........	9	36 34.97	+ 0.18	— 0.79	331 20 9.05	28.989	— 32.2	20.2	22 36		.. ..	....
25	α Pegasi...........	9	59 53.32	+ 0.19	— 0.81	335 42 10.15	27.726	— 26.6	20.5	22 59	...	.. ..	....
	February 7, Br.												
26	η Serpentis	..	.. ..	....	.....	318 6 6.05	28.472	— 55.4	20.4	18 16	.....	.. ..	....
27	α Lyræ............	9	33 37.17	+ 0.24	— 0.73	359 42 3.38	28.442	— 0.2	17.8	18 33	.....	.. ..	....
28	β Lyræ............	9	46 27.82	+ 0.22	— 0.78	354 16 1.80	27.488	— 6.1	18.9	18 46	.....	.. ..	....
29	γ Lyræ............	9	55 16.78	+ 0.22	— 0.79	353 34 2.92	28.301	— 6.9	19.2	18 55	.....	.. ..	....
30	ζ Aquilæ	9	0 54.84	+ 0.18	— 0.82	334 44 7.28	28.519	— 29.1	19.8	19 0	.....	.. ..	....
	February 8, Br.												
31	Sun I, N	9	24 45.82	+ 0.13	— **0.73**	306 10 17.55	29.737	—1 23.1	**19.9**	21 24 45.22	+67.58	—14 51 5.2	....
32	Sun II, S.........	9	27 0.98	+ 0.13	— **0.73**	305 38 16.90	28.803	—1 24.8	**19.9**	21 27 0.38	—67.58	—15 23 34.6	....
33	Venus I, S.......	9	54 9.43	+ 0.15	— **0.72**	316 20 7.52	27.751	— 58.0	**20.1**	21 54 8.86	+ 2.06	— 4 41 47.1	....
34	α Pegasi...........	9	59 53.22	+ 0.18	— 0.71	335 42 9.75	27.740	— 27.3	19.9	22 59	.....	.. ..	....
35	α Andromedæ	9	3 19.99	+ 0.21	— 0.71	349 34 5.70	28.080	— 11.1	21.3	0 3	.....	.. ..	....
36	γ Pegasi...........	9	8 12.02	+ 0.18	— 0.63	335 39 57.30	27.461	— 27.3	21.2	0 8	.....	.. ..	....
37	π Andromedæ	9	31 39.57	+ 0.22	— 0.67	354 12 4.40	27.590	— 6.1	19.9	0 31	....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
5 17 53	29.876	14.2	13.5
18 4	......	....	13.9
18 34	......	....	16.3
18 46	29.874	17.1	17.1
6 21 19	29.832	25.0	24.8
21 59	29.810	26.9	26.0
22 24	29.804	28.0	26.6
23 0	29.790	29.4	27.9
0 3	29.774	30.7	29.4
0 32	......	....	30.1
0 39	29.772	31.7	30.2
0 51	29.774	32.0	30.2
18 35	29.608	24.8	25.2
18 52	29.600	25.8	27.7
19 3	29.610	26.8	28.5
7 21 23	29.600	35.1	37.4
21 45	29.584	36.2	37.5
23 10	29.592	37.7	36.4
18 16	29.622	15.6	15.0
18 34	......	....	15.8
18 46	......	....	16.0
19 1	29.632	17.2	16.3
8 21 27	29.592	22.8	21.3
21 54	29.586	23.6	22.3
23 0	29.560	25.9	23.7
0 3	29.548	26.9	23.7
0 8	......	....	23.8
0 32	29.542	26.8	23.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 18, 31.	Bisections at I, II, III.
6, 19, 32.	Bisections at V, VI, VII.
9.	Bisections at I, II.
22.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 7.3	+16 15.9	...	+16 23.2
6	+ 7.3	—16 16.0	...	—16 8.7
7	+ 21.4	+ 30.3	...	+ 51.7
8	+ 7.5	....	+ 0.8	+ 8.3
18	+ 7.3	+16 14.4	...	+16 21.7
19	+ 7.2	—16 14.4	...	—16 7.2
21	+ 21.6	+ 30.5	...	+ 52.1
23	+ 7.6	....	+ 0.9	+ 8.5
31	+ 7.2	—16 14.6	...	—16 7.4
32	+ 7.3	+16 14.7	...	+16 22.0
33	+ 21.7	+ 30.7	...	+ 52.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	February 8, U.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ζ Geminorum	9	58 20.61	+ 0.17	[− 0.57]	341 44	......	....	....	6 58	.....	.. ..	....
2	δ Geminorum	9	14 19.10	+ 0.18	[− 0.56]	343 10	......	....	....	7 14	.....	.. ..	....
3	λ Ursæ Minoris S. P.	6	18 53.43	− 2.57	[+ 1.85]	52 0	......	....	....	19 18	.....	.. ..	....
	February 9, U.												
4	ζ Geminorum	9	58 20.18	+ 0.17	[− 0.15]	341 44	......	....	....	6 58	.....	.. ..	....
5	δ Geminorum	9	14 18.66	+ 0.17	[− 0.12]	343 10	......	....	....	7 14	.....	.. ..	....
6	λ Ursæ Minoris S. P.	6	18 51.10	+ 1.99	[+ 0.20]	52 0	......	....	....	19 18	.....	.. ..	....
	February 9, Br.												
7	η Serpentis	9	16 14.40	+ 0.15	− 0.06	318 6 7.32	28.534	− 54.5	24.5	18 16	.....	.. ..	....
8	α Lyræ	9	33 36.62	+ 0.10	+ 0.01	359 42 9.72	28.362	− 0.2	22.4	18 33	.....	.. ..	....
9	β Lyræ	9	46 27.07	+ 0.11	+ 0.13	354 16 8.75	27.408	− 6.0	24.0	18 46	.....	.. ..	....
10	γ Lyræ	9	55 16.07	+ 0.11	+ 0.07	353 34 9.25	28.160	− 6.8	22.3	18 55	.....	.. ..	....
	February 10, Br.												
11	Sun I, S.........	9	32 42.19	+ 0.18	+ **0.09**	306 16 10.68	29.672	−1 21.9	**23.1**	21 32 42.46	+67.28	−14 45 15.9	....
12	Sun II, N	9	34 56.76	+ 0.18	+ **0.09**	306 48 10.25	30.695	−1 20.3	**23.1**	21 34 57.03	−67.29	−14 12 46.0	....
13	Venus I, S.......	9	49 28.64	+ 0.17	+ **0.10**	316 14 8.25	29.490	− 57.6	**23.1**	21 49 28.91	+ 2.07	− 4 46 59.5	....
14	Mercury I	7	25 19.16	+ 0.18	+ **0.11**	313 44	......	....	....	22 25 19.45	+ 0.29	.. ..	....
15	λ Pegasi.........	9	41 48.22	+ 0.16	+ 0.11	344 4 7.45	28.296	− 17.1	23.6	22 41	.....	.. ..	....
16	α Pegasi.........	9	59 52.39	+ 0.17	+ 0.13	335 42 5.10	27.969	− 27.1	22.3	22 59	.....	.. ..	....
17	Moon I..........	8	12 7.99	+ 0.18	+ **0.12**	319 28	......	....	....	23 12 8.29	+65.61	.. ..	....
18	α Andromedæ	9	3 19.13	+ 0.17	+ 0.17	349 34 9.05	28.031	− 11.0	23.7	0 3	.....	.. ..	....
19	γ Pegasi..........	9	8 11.26	+ 0.18	+ 0.11	335 40 7.62	27.141	− 27.1	22.8	0 8	.....	.. ..	....
20	π Andromedæ	9	31 38.76	+ 0.17	+ 0.17	354 12 4.52	27.651	− 6.0	22.2	0 31	.....	.. ..	....
	February 11, Br.												
21	α Lyræ	9	33 35.62	+ 0.18	+ 0.98	359 42 7.58	28.389	− 0.2	21.5	18 33	.....	.. ..	....
22	β Lyræ	7	46 26.28	+ 0.18	+ 0.90	354 16 7.15	27.425	− 6.0	23.2	18 46	.....	.. ..	....
23	γ Lyræ	9	55 15.20	+ 0.18	+ 0.92	353 34 5.18	28.274	− 6.7	21.8	18 55	.....	.. ..	....
24	γ Aquilæ..........	9	41 34.77	+ 0.18	+ 0.96	331 24 7.40	27.566	− 32.7	24.0	19 41	.....	.. ..	....
25	α Aquilæ..........	9	45 58.96	+ 0.18	+ 0.86	329 38 9.32	27.790	− 35.1	23.3	19 46	.....	.. ..	....
	February 12, Br.												
26	Sun I, N	9	40 35.30	+ 0.18	+ **0.98**	307 28 10.78	28.982	−1 17.6	**22.8**	21 40 36.46	+67.06	−13 33 30.8	....
27	Sun II, S	9	42 49.41	+ 0.18	+ **0.98**	306 56 12.85	28.097	−1 19.1	**22.8**	21 42 50.57	−67.05	−14 5 55.9	....
28	β Arietis...........	7	49 12.99	+ 0.18	+ 1.07	341 22 4.28	25.650	− 20.0	[19.6]	1 49	.....	.. ..	....
29	η Serpentis	9	16 13.10	+ 0.15	+ 1.31	318 6 5.80	28.514	− 55.2	22.0	18 16	.....	.. ..	....
30	α Lyræ	9	33 35.28	+ 0.15	+ 1.38	359 42 3.38	28.465	− 0.2	19.7	18 33	.....	.. ..	....
31	β Lyræ	9	46 25.82	+ 0.15	+ 1.41	354 16 4.65	27.418	− 6.1	20.7	18 46	.....	.. ..	....
32	γ Lyræ	9	55 14.77	+ 0.15	+ 1.40	353 34 0.38	28.385	− 6.9	20.3	18 55	.....	.. ..	....
33	ζ Aquilæ..........	9	0 52.78	+ 0.15	+ 1.37	334 44 4.15	28.621	− 29.0	20.5	19 0	.....	.. ..	....
	February 13, Br.												
34	Sun I, S.........	9	44 30.53	+ 0.16	+ **1.45**	307 16 14.48	27.890	−1 20.3	**20.7**	21 44 32.14	+67.02	−13 45 58.8	....
35	Sun II, N........	8	46 44.56	+ 0.16	+ **1.45**	307 48 18.90	28.702	−1 18.7	**20.7**	21 46 46.17	−67.01	−13 13 30.2	....
36	α Pegasi..........	9	59 51.06	+ 0.18	+ 1.44	335 42 4.72	27.896	− 27.5	19.8	22 59	.....	.. ..	....
37	ο Piscium	9	40 11.89	+ 0.21	+ 1.58	329 40 7.52	30.610	− 35.5	[24.5]	1 40	.....	.. ..	....
38	β Arietis	9	49 12.46	+ 0.22	+ 1.54	341 22 5.75	25.651	− 20.5	20.8	1 49	.....	.. ..	....
39	Moon I, S	9	56 48.27	+ 0.22	+ **1.57**	332 52 5.58	27.911	− 31.2	**20.7**	1 56 50.06	+68.57	+11 50 41.6	....
40	β Trianguli........	9	3 41.74	+ 0.23	+ 1.60	355 32 3.02	28.909	− 4.7	20.9	2 3	.....	.. ..	....
41	γ Trianguli........	9	11 28.36	+ 0.23	+ 1.59	354 24 1.65	29.439	− 5.9	21.3	2 11	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
9 18 16	29.650	21.0	23.0
18 34	......	....	23.7
18 46	......	....	24.0
18 55	29.648	23.5	24.1
10 21 35	29.624	28.0	27.0
21 49	29.614	28.4	27.2
22 42	......	....	28.0
23 0	29.596	29.9	28.2
0 3	......	....	28.8
0 8	29.596	31.9	28.9
0 32	29.594	31.5	28.9
11 18 34	29.556	24.1	24.8
18 46	......	....	25.5
18 55	29.550	25.7	26.1
19 42	......	....	27.6
19 46	29.538	27.8	27.7
12 21 43	29.534	31.5	31.0
1 49	29.528	34.1	32.7
18 16	29.698	18.5	17.9
18 46	......	....	17.9
18 55	......	....	17.9
19 1	29.718	19.0	18.1
13 21 47	29.746	23.6	21.6
23 0	29.740	25.4	23.1
1 40	29.790	27.1	25.2
1 49	......	....	25.2
1 57	......	....	25.1
2 11	29.802	27.0	25.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

10.	Bisections at VI, VII.
11, 26, 34.	Bisections at I, II, III.
12, 27, 35.	Bisections at V, VI, VII.
22, 28, 37.	Bisections at I, II.
39.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
11	+ 7.2	+16 14.9	...	+16 22.1
12	+ 7.1	−16 14.9	...	−16 7.8
13	+ 22.0	+ 31.0	...	+ 53.0
26	+ 7.1	−16 12.5	...	−16 5.4
27	+ 7.1	+16 12.6	...	+16 19.7
34	+ 7.1	+16 14.3	...	+16 21.4
35	+ 7.0	−16 14.2	...	−16 7.2
39	+26 37.4	+16 5.3	...	+42 42.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	February 13, U.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ζ Geminorum	9	58 18.21	+ 0.16	[+ 1.80]	341 44	......	....	....	6 58	.....	.. ..	....
2	δ Geminorum	9	14 16.75	+ 0.16	[+ 1.78]	343 10	......	....	....	7 14	.....	.. ..	....
3	λ Ursæ Minoris S.P.	6	18 53.33	0.00	[+ 2.73]	52 0	......	....	....	19 18	.....	.. ..	....
	February 13, B.												
4	β Lyræ	9	46 25.13	+ 0.22	+ 2.06	354 16 14.48	27.010	− 6.2	19.0	18 46	.....	.. ..	....
5	γ Lyræ	5	55 13.96	+ 0.22	+ 2.16	353 34 9.15	28.018	− 7.0	18.9	18 55	.....	.. ..	....
6	ζ Aquilæ	9	0 52.07	+ 0.22	+ 2.04	334 44 15.38	28.191	− 29.3	19.3	19 0	....	.. ..	....
7	β Cygni	9	26 43.57	+ 0.22	+ 2.07	348 46 0.50	28.508	− 12.3	21.1	19 26	.....	.. ..	....
8	Venus II, S.	8	39 46.51	+ 0.23	+ **2.12**	315 53 55.72	25.409	− 59.4	**20.6**	21 39 48.86	− 2.09	− 5 9 7.6	....
	February 14, B.												
9	Sun I, S.	7	48 24.64	+ 0.23	+ **2.12**	307 36 8.45	28.517	−1 19.3	**20.7**	21 48 26.99	+67.08	−13 25 46.0	....
10	Sun II, N.	9	50 38.80	+ 0.23	+ **2.12**	308 8 8.92	29.498	−1 17.8	**20.7**	21 50 41.15	−67.08	−12 53 16.6	....
11	α Andromedæ	9	3 16.96	+ 0.28	+ 2.20	349 34 6.65	27.988	− 11.1	20.6	0 3	.....	.. ..	....
12	σ Andromedæ	9	13 10.18	+ 0.30	+ 2.14	357 16 5.30	26.910	− 2.8	21.8	0 13	.....	.. ..	....
13	ε Piscium	9	57 49.37	+ 0.26	+ 2.13	328 23 58.52	26.498	− 37.3	23.0	0 57	.....	.. ..	....
14	β Andromedæ	9	4 12.64	+ 0.29	+ 2.18	356 8 4.02	26.019	− 4.1	21.3	1 4	.....	.. ..	....
15	ξ² Ceti	9	22 55.24	+ 0.26	+ 2.16	329 2 1.50	29.371	− 36.4	21.4	2 22	.....	.. ..	....
16	δ Ceti	9	34 25.89	+ 0.25	+ 2.18	320 56 7.40	27.645	− 49.2	22.5	2 34	.....	.. ..	....
17	Moon I, S	9	55 22.62	+ 0.28	+ **2.21**	336 20 4.90	26.517	− 26.6	**22.1**	2 55 25.11	+69.92	+15 18 4.4	....
18	ζ Arietis	9	9 14.72	+ 0.23	+ 2.27	341 42 1.55	28.108	− 20.1	21.5	3 9	.....	.. ..	....
19	f Tauri	9	25 26.44	+ 0.23	+ 2.24	333 38 3.12	26.599	− 30.2	23.0	3 25	.....	.. ..	....
	February 14, U.												
20	ζ Geminorum	9	58 17.76	+ 0.22	[+ 2.18]	341 44	......	....	....	6 58	.....	.. ..	....
21	δ Geminorum	9	14 16.26	+ 0.22	[+ 2.20]	343 10	......	....	....	7 14	.....	.. ..	....
22	λ Ursæ Minoris S.P.	6	18 52.37	+ 1.27	[+ 3.09]	52 0	......	....	....	19 18	.....	.. ..	....
	February 17, Br.												
23	ν Aurigæ	9	44 42.11	− 0.08	+ 2.21	359 44 22.38	27.832	− 0.2	59.0	5 44	.....	.. ..	....
24	α Orionis	9	49 51.70	− 0.04	+ 2.19	31 28 16.30	26.880	+ 36.2	60.1	5 49	.....	.. ..	....
25	Moon I, S	9	0 38.83	− 0.05	+ **2.21**	20 4 15.48	27.988	+ 21.7	**59.1**	6 0 40.99	+71.45	+18 46 51.7	....
26	η Geminorum	9	8 57.71	− 0.05	+ 2.25	16 18 16.25	29.912	+ 17.4	58.6	6 8	.....	.. ..	....
27	μ Geminorum	9	17 1.94	− 0.05	+ 2.22	16 18 15.90	26.328	+ 17.3	59.1	6 17	.....	.. ..	....
28	ν Geminorum	9	23 8.70	− 0.05	+ 2.19	18 34 17.50	29.120	+ 19.9	58.8	6 23	.....	.. ..	....
	February 17, B.												
29	β Lyræ	9	46 25.36	− 0.06	+ 2.21	5 36 22.05	28.419	+ 5.9	61.1	18 46	.....	.. ..	....
30	γ Lyræ	9	55 14.36	− 0.05	+ 2.13	6 18 22.58	27.531	+ 6.6	59.9	18 55	.....	.. ..	....
31	ζ Aquilæ	9	0 52.32	− 0.04	+ 2.13	25 8 20.38	27.242	+ 28.0	59.4	19 0	....	.. ..	....
32	δ Aquilæ	7	20 31.49	− 0.04	+ 2.10	35 56 19.40	26.460	+ 43.2	60.0	19 20	.....	.. ..	....
	February 18, B.												
33	Sun I, S.	6	3 57.95	− 0.04	+ **2.13**	50 52 23.80	29.547	+1 13.1	**58.6**	22 4 0.04	+66.51	−12 2 52.5	....
34	Sun N	..	......	....	.....	50 20 25.00	28.700	+1 11.7	**58.6**	.. ..	.....	−11 30 28.8	....
35	α Andromedæ	9	3 17.37	− 0.05	+ 2.09	10 18 20.52	27.802	+ 10.9	[60.6]	0 3	.....	.. ..	....
36	γ Pegasi	9	8 9.37	− 0.04	+ 2.17	24 12 21.10	28.560	+ 26.8	57.2	0 8	.....	.. ..	....
37	β Ceti	9	38 38.21	− 0.05	+ 2.06	57 22 18.50	26.162	+1 32.5	56.4	0 38	.....	.. ..	....
38	β Andromedæ	9	4 12.98	− 0.06	+ 2.13	3 44 21.15	29.775	− 4.0	58.3	1 4	.....	.. ..	....
39	ε Orionis	9	31 14.08	− 0.02	+ 2.06	40 6 5.10	29.369	+ 51.0	60.9	5 31	.....	.. ..	....
40	κ Orionis	9	43 6.11	− 0.01	+ 2.09	48 32 6.80	29.547	+1 8.5	58.3	5 43	.....	.. ..	....
41	Neptune C, C	9	54 42.49	− 0.04	+ **2.07**	16 34 1.42	29.460	+ 18.1	**59.6**	5 54 44.52	.....	+22 16 27.8	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
13	18	47	29.986	17.3	18.2
	19	29	30.000	19.6	19.8
14	21	50	29.988	25.5	25.4
	0	0	29.970	30.2	28.4
	0	34	29.960	31.0	29.0
	1	6	29.960	31.4	29.5
	2	24	29.964	30.4	29.2
	3	27	29.958	28.8	27.7
17	5	45	......	....	28.2
	5	50	29.054	30.8	....
	6	1	.....	....	28.0
	6	9	......	....	27.9
	6	17	......	...	27.9
	6	23	29.046	29.1	27.8
	18	48	29.224	27.0	27.3
	19	1	......	....	27.6
	19	23	29.240	28.2	28.0
18	22	6	29.278	31.5	29.2
	0	1	29.308	33.1	29.7
	0	40	29.324	33.8	31.0
	2	6	29.328	34.0	30.0
	5	33	29.460	25.4	24.0
	5	55	......	....	24.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5. Bisections at VI, VII.
9, 33. Bisections at I, II, III.
10. Bisections at V, VI, VII.
17, 25. Bisections at II, III, IV, V, VI.
24. Bisections at II, VI, VII.
32, 36, 40. Bisections at I, II, VI.
34. Bisection at VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
8	+ 22.3	+ 31.3	...	+ 53.6
9	+ 7.1	+16 14.7	...	+16 21.8
10	+ 7.0	−16 14.6	...	−16 7.6
17	+23 28.7	+16 8.2	...	+39 36.9
25	+20 9.8	+16 9.0	...	+36 18.8
33	+ 6.9	+16 11.8	...	+16 18.7
34	+ 6.9	−16 11.9	...	−16 5.0
41	+ 0.1	....	...	+ 0.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ν Orionis..........	9	1 58.60	— 0.03	+ 2.04	24 3 59.75	28.774	+ 27.1	59.0	6 2	.....	.. ..	....
2	η Geminorum	9	8 57.86	— 0.04	+ 2.07	16 18 0.52	30.486	+ 17.8	59.6	6 8	.....	.. ..	....
3	γ Geminorum	9	32 3.20	— 0.03	+ 2.03	22 22 2.60	28.425	+ 24.9	59.0	6 32	.....	.. ..	....
4	ε Geminorum	9	37 54.47	— 0.04	+ 2.05	13 37 59.92	27.350	+ 14.7	60.7	6 37	.....	.. ..	....
5	Moon I, N.......	9	2 23.74	— 0.03	+ **2.06**	21 0 4.60	29.031	+ 23.2	**59.6**	7 2 25.77	+70.56	— 17 50 31.9	....
6	δ Geminorum	8	14 16.57	— 0.04	+ 2.11	16 41 59.38	27.138	+ 18.2	59.6	7 14	.....	.. ..	....
7	β Canis Minoris....	9	21 50.40	— 0.02	+ 2.06	30 22 2.40	27.752	+ 35.4	60.1	7 21	.....	.. ..	....
	February 18, L.												
8	γ Aquilæ..........	9	41 34.48	— 0.04	+ 1.60	28 28 15.12	28.454	+ 33.6	60.1	19 41	.....	.. ..	....
9	α Aquilæ..........	9	45 58.54	— 0.03	+ 1.62	30 14 13.18	28.236	+ 36.1	61.1	19 46	.....	.. ..	....
10	ε Cygni...........	9	42 12.88	— 0.07	+ 1.58	5 14 10.60	30.126	+ 5.7	59.6	20 42	.....	.. ..	....
11	Venus II, S......	9	28 7.28	— 0.02	+ **1.62**	44 44 12.28	29.091	+1 0.9	**59.4**	21 28 8.88	— 2.07	— 5 54 15.3	....
	February 19, L.												
12	Sun I, S.........	9	7 49.47	— 0.02	+ **1.63**	50 32 11.62	27.410	+1 14.3	**59.0**	22 7 51.08	+66.50	—11 41 40.3	....
13	Sun II, N	9	10 2.46	— 0.02	+ **1.63**	50 0 12.12	26.467	+1 12.9	**59.0**	22 10 4.07	—66.49	—11 9 13.0	....
14	α Pegasi...........	9	59 51.17	— 0.04	+ 1.55	24 10 13.28	28.069	+ 27.5	57.5	22 59	.....	.. ..	....
15	α Andromedæ	9	3 17.78	— 0.06	+ 1.68	10 18 9.52	28.136	+ 11.2	59.3	0 3	.....	.. ..	....
16	γ Pegasi...........	9	8 9.88	— 0.04	+ 1.65	24 12 9.92	28.918	+ 27.5	56.8	0 8	.....	.. ..	....
17	β Andromedæ	9	4 13.37	— 0.07	+ 1.74	3 46 8.50	25.996	+ 4.1	57.8	1 4	.....	.. ..	....
18	ε Orionis..........	9	31 14.52	— 0.03	+ 1.61	40 6 6.50	29.222	+ 51.8	58.8	5 31	.....	.. ..	....
19	κ Orionis..........	9	43 6.67	— 0.02	+ 1.52	48 32 7.60	29.471	+1 9.7	58.0	5 43	.....	.. ..	....
20	Neptune C, C....	9	54 40.18	— 0.05	+ **1.61**	16 34 13.00	28.905	+ 18.4	**58.0**	5 54 41.74	.....	+22 16 30.1	....
21	ν Orionis..........	9	1 58.92	— 0.04	+ 1.72	24 4 15.18	28.152	+ 27.6	57.2	6 2	.....	.. ..	....
22	η Geminorum	9	8 58.34	— 0.05	+ 1.59	16 18 12.00	29.996	+ 18.1	57.5	6 8	.....	.. ..	....
23	φ Geminorum	9	47 30.98	— 0.05	+ 1.64	11 50 19.28	27.859	+ 13.0	58.6	7 47	.....	.. ..	....
24	ω^1 Cancri...........	9	55 1.09	— 0.04	+ 1.59	13 12 14.38	26.920	+ 14.5	57.5	7 55	.....	.. ..	....
25	Moon I, N.......	9	2 18.71	— 0.02	+ **1.60**	23 40 18.38	27.998	+ 27.1	**58.0**	8 2 20.29	+69.14	+15 10 42.1	....
26	β Cancri...........	9	11 12.87	— 0.01	+ 1.56	29 22 19.58	27.039	+ 34.8	58.1	8 11	.....	.. ..	....
27	η Cancri...........	9	27 3.46	— 0.03	+ 1.62	18 4 14.12	29.411	+ 20.2	58.3	8 27	.....	.. ..	....
	February 23, U.												
28	ζ Geminorum	9	58 19.41	— 0.03	[+ 0.68]	18 8	......	....	....	6 58	.....	.. ..	....
29	δ Geminorum	9	14 17.89	— 0.03	[+ 0.73]	16 42	......	....	....	7 14	.....	.. ..	....
30	λ Ursæ Minoris S. P.	6	18 54.00	+ 9.00	[— 0.22]	307 52	......	....	....	19 19	.....	.. ..	....
	February 23, Br.												
31	γ Lyræ............	9	55 16.04	— 0.09	+ 0.64	6 18 13.65	27.887	+ 6 7	60.1	18 55	.....	.. ..	....
32	ζ Aquilæ..........	9	0 53.97	— 0.06	+ 0.65	25 8 10.80	27.571	+ 28.3	58.9	19 0	.....	.. ..	....
33	β Cygni...........	9	26 45.53	— 0.08	+ 0.63	11 6 12.40	27.811	+ 11.8	59.5	19 26	.....	.. ..	....
34	α Aquilæ..........	9	45 59.69	— 0.05	+ 0.59	30 14 15.95	28.164	+ 34.9	60.1	19 46	.....	.. ..	....
35	Venus II, S......	9	18 43.18	— 0.02	+ **0.62**	45 40 11.52	29.014	+1 0.6	**59.3**	21 18 43.78	— 1.98	— 6 50 12.1	....
	February 24, Br.												
36	Sun I, N	9	26 57.46	0.00	+ **0.62**	48 10 11.42	29.898	+1 5.8	**59.3**	22 26 58.08	+65.80	— 9 20 42.1	....
37	Sun II...........	9	29 9.06	0.00	+ **0.62**	48 26	......	....	....	22 29 9.68	—65.80	.. ..	....
38	α Andromedæ	9	3 18.82	— 0.07	+ 0.62	10 18 11.72	28.156	+ 10.7	60.7	0 3	.....	.. ..	....
39	β Arietis	9	49 13.52	— 0.04	+ 0.59	18 32 7.02	26.365	+ 19.7	57.6	1 49	.....	.. ..	....
40	α Arietis	9	1 38.98	— 0.05	+ 0.59	15 52 5.25	26.092	+ 16.7	57.9	2 1	.....	.. ..	....
41	γ Trianguli........	9	11 29.42	— 0.08	+ 0.65	5 28 9.32	26.932	+ 5.7	59.7	2 11	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
18 6 10	29.460	25.0	24.0
6 31	......	....	24.0
6 39	29.460	24.8	24.2
7 4	29.464	25.0	25.0
7 24	29.466	25.0	25.0
19 42	29.784	20.0	19.1
19 46	......	....	19.2
20 42	29.820	22.0	21.1
21 28	29.832	24.8	22.8
19 22 10	29.846	25.8	24.9
23 0	29.848	27.8	25.1
0 8	29.860	29.0	26.6
1 4	29.876	30.9	27.9
5 31	29.944	25.1	24.0
6 9	29.956	24.4	23.5
7 48	30.000	23.4	23.0
8 27	30.000	22.9	22.5
23 18 55	29.858	32.0	32.3
19 1	......	....	32.6
19 27	......	....	33.9
19 46	29.864	35.3	35.3
21 19	......	....	41.0
21 42	29.852	41.6	....
24 22 29	29.854	43.6	43.5
0 3	.....	....	44.8
1 14	29.832	46.2	...
1 49	29.818	46.5	45.1
2 2	29.812	46.6	45.2
2 11	29.810	46.6	45.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 25.	Bisections at II, III, IV, V, VI.
12, 36.	Bisections at I, II, III.
13.	Bisections at V, VI, VII.
31.	Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+21 0.3	—16 6.1	...	+ 4 54.2
11	+ 22.2	+ 30.8	...	+ 53.0
12	+ 6.9	+16 13.6	...	+16 20.5
13	+ 6.8	—16 13.6	...	—16 6.8
20	+ 0.1	....	...	+ 0.1
25	+23 25.1	—16 1.1	...	+ 7 24.0
35	+ 21.7	+ 29.6	...	+ 51.3
36	+ 6.6	—16 11.1	...	—16 4.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	February 26, U.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ζ Geminorum	9	58 19.90	− 0.08	[+ 0.20]	18 8	......	....	....	6 58	.....	.. ..	....
2	δ Geminorum	9	14 18.39	− 0.08	[+ 0.24]	16 42	......	....	....	7 14	.....	.. ..	....
3	λ Ursæ Minoris S. P.	6	18 53.72	+12.97	[− 0.93]	307 52	......	....	....	19 19	.....	.. ..	....
	February 26, L.												
4	m Virginis	9	36 30.16	− 0.01	+ 0.02	47 2 18.00	29.650	+1 3.2	58.1	13 36	.....	.. ..	....
5	η Bootis..........	9	50 2.93	− 0.06	+ 0.06	19 58 20.05	27.374	+ 21.4	58.6	13 50	.....	.. ..	....
6	π Hydræ	9	0 49.69	+ 0.03	− 0.05	65 2 21.18	27.310	+2 6.0	57.2	14 0	.....	.. ..	....
7	Moon II, S	9	9 30.21	0.00	− **0.01**	52 56 20.60	28.014	+1 17.9	**58.4**	14 9 30.20	−63.50	−14 6 10.9	....
8	λ Virginis	9	13 50.39	0.00	− 0.02	51 44 24.00	30.430	+1 14.7	59.4	14 13	.....	.. ..	....
9	α² Libræ	9	45 29.28	+ 0.01	− 0.04	54 28 20.10	27.791	+1 22.6	58.5	14 45	.....	.. ..	....
	February 28, B.												
10	β Libræ	9	11 46.11	− 0.05	− 0.37	47 52 7.20	27.454	+1 3.2	63.0	15 11	.....	.. ..	....
11	α Serpentis	9	39 28.18	− 0.06	− 0.29	32 6 3.92	30.168	+ 36.0	65.1	15 39	.....	.. ..	....
12	Moon II, S	9	50 0.13	− 0.04	− **0.33**	57 48 9.78	30.613	+1 31.0	**63.9**	15 49 59.76	−64.49	−18 59 21.8	....
13	δ Scorpii	9	54 34.29	− 0.04	− 0.32	61 10 15.45	28.278	+1 43.9	64.7	15 54	.....	.. ..	....
14	β¹ Scorpii	9	59 46.24	− 0.04	− 0.35	58 22 7.15	28.201	+1 32.9	62.8	15 59	.....	.. ..	....
	February 28, L.												
15	γ Aquilæ	9	41 36.88	− 0.07	− 0.55	28 28 14.70	28.672	+ 30.8	62.1	19 41	.....	.. ..	....
16	α Aquilæ	9	46 0.97	− 0.07	− 0.56	30 14 20.35	28.179	+ 33.1	62.7	19 46	.....	.. ..	....
17	θ Aquilæ	9	6 15.76	− 0.06	− 0.57	39 58 19.40	26.125	+ 47.5	62.1	20 6	.....	.. ..	....
18	Venus II, S......	9	12 51.51	− 0.04	− **0.55**	46 38 17.32	27.972	+ 59.6	**62.8**	21 12 50.92	− 1.87	− 7 47 43.7	....
19	ε Pegasi...........	9	39 22.94	− 0.05	− 0.55	29 26 21.92	26.069	+ 31.7	63.2	21 39	.....	.. ..	....
	March 1, L.												
20	Sun I, N........	9	45 50.09	− 0.02	− **0.54**	46 18 16.52	29.872	+ 58.5	**63.4**	22 45 49.53	+65.56	− 7 28 35.1	....
21	Sun II, S........	9	48 1.21	− 0.02	− **0.54**	46 50 18.72	30.437	+ 59.6	**63.4**	22 48 0.65	−65.56	− 8 0 55.1	....
22	α Pegasi	9	59 53.31	− 0.04	− 0.56	24 10 19.82	28.118	+ 25.1	[61.9]	22 59	.....	.. ..	....
23	α Andromedæ	9	3 19.91	− 0.06	− 0.50	10 18 23.58	27.918	+ 10.2	64.4	0 3	.....	.. ..	....
24	β Arietis	9	49 14.57	− 0.03	− 0.53	18 32 21.40	26.138	+ 18.6	63.9	1 49	.....	.. ..	....
25	α Arietis	9	1 40.02	− 0.04	− 0.53	15 52 19.35	25.880	+ 15.8	64.6	2 1	.....	.. ..	....
	March 3, U.												
26	ζ Geminorum	9	58 20.93	− 0.10	[− 0.88]	18 8	......	....	....	6 58	.....	.. ..	....
27	δ Geminorum	9	14 19.39	− 0.10	[− 0.81]	16 42	......	....	....	7 14	.....	.. ..	....
28	λ Ursæ Minoris S. P.	6	19 13.02	− 0.69	[− 1.98]	307 52	......	....	....	19 19	.....	.. ..	....
	March 5, Br.												
29	δ Aquilæ	9	20 35.48	− 0.11	− 1.45	35 56 4.50	27.162	+ 44.1	64.8	19 20	.....	.. ..	....
30	γ Aquilæ	9	41 37.80	− 0.10	− 1.33	28 28 6.18	28.986	+ 33.0	64.3	19 41	.....	.. ..	....
31	α Aquilæ	9	46 1.92	− 0.11	− 1.36	30 14 6.32	28.682	+ 35.5	65.1	19 46	.....	.. ..	....
32	Moon II.........	9	11 55.92	− 0.14	− **1.36**	54 24	......	....	....	20 11 54.42	−65.63	.. ..	....
33	ε Cygni	9	42 16.03	− 0.06	− 1.30	5 16 6.70	26.316	+ 5.6	64.1	20 42	.....	.. ..	....
34	Venus II, N	9	11 3.16	− 0.13	− **1.38**	47 28 5.45	29.631	+1 6.0	**64.2**	21 11 1.65	− 1.74	− 8 38 24.1	....
35	Mercury II, C....	9	31 45.71	− 0.13	− **1.38**	52 18 11.62	28.582	+1 18.2	**64.1**	21 31 44.20	− 0.31	−13 28 12.7	....
	March 6, Br.												
36	Sun I, S.........	9	4 30.06	− 0.11	− **1.40**	44 56 3.50	28.830	+1 0.0	**63.6**	23 4 28.55	+65.13	− 6 5 53.7	....
37	Sun II	9	6 40.31	− 0.11	− **1.40**	44 40	......	....	....	23 6 38.80	−65.12	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
26 13 37	29.544	39.1	38.8
14 1	......	....	38.3
14 14	......	....	37.9
14 45	29.540	38.5	37.0
28 15 12	29.318	49.4	48.2
15 39	29.320	49.2	47.7
16 0	29.330	49.2	47.5
19 42	29.338	51.0	52.7
19 46	......	....	53.0
20 6	......	....	53.8
21 13	29.420	58.0	58.0
21 39	29.424	59.0	59.1
1 22 48	29.416	61.9	62.1
23 0	......	....	62.8
0 3	29.414	65.0	64.1
1 49	......	....	64.8
2 2	29.408	65.8	64.8
5 19 21	29.820	26.9	27.2
19 42	......	....	28.0
19 46	29.844	28.3	28.1
20 42	29.866	30.1	29.8
21 11	29.872	31.6	30.6
21 32	29.878	33.1	31.0
6 23 7	29.906	34.3	34.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7, 12. Bisections at II, III, IV, V, VI.
17. Bisections at I, VI, VII.
20, 36. Bisections at I, II, III.
21. Bisections at V, VI, VII.
22. Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+43 34.7	+14 56.8	...	+58 31.5
12	+45 48.5	+14 48.7	...	+60 37.2
18	+ 20.8	+ 27.9	...	+ 48.7
20	+ 6.4	−16 9.9	...	−16 3.5
21	+ 6.5	+16 10.0	...	+16 16.5
34	+ 19.6	− 25.9	...	− 6.3
35	+ 9.2	....	− 0.6	+ 8.6
36	+ 6.3	+16 8.7	...	+16 15.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Andromedæ	9	3 20.79	− 0.04	− 1.41	10 18 7.22	28.491	+ 10.9	64.3	0 3	.....	.. ..	....
2	γ Pegasi...........	9	8 12.94	− 0.06	− 1.45	24 12 5.70	29.328	+ 26.9	62.3	0 8	.....	.. ..	....
3	π Andromedæ	9	31 40.33	− 0.02	− 1.43	5 40 8.22	28.881	+ 6.0	62.4	0 31	.....	.. ..	....
4	μ Andromedæ	9	51 20.37	− 0.01	− 1.40	0 54 10.45	26.283	+ 1.0	63.3	0 51	.....	.. ..	....
5	β Andromedæ	9	4 16.31	− 0.01	− 1.42	3 46 9.35	26.244	+ 4.0	63.2	1 4	.....	.. ..	....
	March 6, U.												
6	ζ Geminorum	9	58 21.30	− 0.08	[− 1.32]	18 8	......	....	....	6 58	.....	.. ..	....
7	δ Geminorum	9	14 19.82	− 0.08	[− 1.30]	16 42	......	....	....	7 14	.....	.. ..	....
8	λ Ursæ Minoris S. P.	6	19 16.17	− 1.24	[− 1.96]	307 52	......	....	....	19 19	.....	.. ..	....
	March 6, Br.												
9	β Cygni...........	9	26 47.84	− 0.09	− 1.39	11 6 8.90	28.096	+ 12.0	62.8	19 26	.....	.. ..	....
10	γ Aquilæ...........	5	41 37.93	− 0.10	− 1.43	28 28 10.35	28.782	+ 32.9	62.6	19 41	.....	.. ..	....
11	α Aquilæ...........	9	46 2.02	− 0.10	− 1.44	30 14 9.90	28.498	+ 35.4	63.2	19 46	.....	.. ..	....
12	θ Aquilæ...........	9	6 16.87	− 0.11	− 1.50	39 58 3.85	26.580	+ 50.7	62.6	20 6	.....	.. ..	....
13	ε Cygni...........	9	42 16.18	− 0.09	− 1.40	5 16 7.95	26.240	+ 5.6	63.1	20 42	.....	.. ..	....
14	Moon II.........	9	4 58.11	− 0.11	− **1.43**	51 4	......	....	....	21 4 56.57	−65.61	.. ..	....
15	Venus II, N......	9	11 10.59	− 0.11	− **1.43**	47 38 5.75	27.846	+1 5.6	**62.8**	21 11 9.05	− 1.72	− 8 47 34.6	....
	March 7, Br.												
16	Sun I, N..........	9	8 12.67	− 0.07	− **1.42**	44 0 10.90	29.580	+ 56.9	**62.8**	23 8 11.18	+64.96	− 5 10 20.2	....
17	Sun II, S.........	9	10 22.58	− 0.07	− **1.42**	44 32 13.55	29.987	+ 58.0	**62.8**	23 10 21.09	−64.95	− 5 42 36.1	....
18	β Andromedæ	9	4 16.37	− 0.08	− 1.42	3 46 7.42	26.289	+ 3.9	62.2	1 4	.....	.. ..	....
	March 9, Hd.												
19	ε Ursæ Minoris S. P.	6	55 56.97	− 0.10	[− 0.18]	301 4	......	....	....	16 55	.....	.. ..	....
20	τ Orionis...........	9	12 52.42	− 0.03	[− 0.33]	45 46	....	....	....	5 12	.....	.. ..	....
21	δ Ursæ Minoris S. P.	9	3 40.66	− 0.26	[+ 0.59]	305 30	......	....	....	18 3	.....	.. ..	....
22	η Geminorum	9	8 59.89	− 0.01	[− 0.30]	16 20	......	....	....	6 8	.....	.. ..	....
23	ε Ursæ Minoris....	9	55 56.50	+ 0.62	[− 0.35]	316 40	......	....	....	16 55	.....	.. ..	....
24	α Herculis........	8	10 12.28	− 0.05	[− 0.41]	24 20	......	....	....	17 10	.....	.. ..	....
25	δ Ursæ Minoris....	9	3 39.73	+ 1.50	[− 0.04]	312 14	......	....	....	18 3	.....	.. ..	....
26	η Serpentis	9	16 15.74	− 0.09	[− 0.42]	41 46	......	....	....	18 16	.....	.. ..	....
	March 9, Br.												
27	γ Aquilæ...........	9	41 36.91	− 0.05	− 0.39	28 28 9.82	28.862	+ 32.4	63.7	19 41	.....	.. ..	....
28	α Aquilæ...........	9	46 1.01	− 0.06	− 0.40	30 14 11.38	28.481	+ 34.8	63.6	19 46	.....	.. ..	....
29	γ Sagittæ	9	54 24.69	− 0.04	− 0.42	19 38 8.25	27.034	+ 21.3	63.2	19 54	.....	.. ..	....
30	θ Aquilæ...........	9	6 15.87	− 0.08	− 0.47	39 58 4.75	26.595	+ 49.9	63.1	20 6	.....	.. ..	....
31	Venus II, N.......	9	12 28.34	− 0.09	− **0.42**	48 2 9.48	28.828	+1 5.8	**63.4**	21 12 27.83	− 1.63	− 9 12 5.9	....
32	Mercury II, C....	9	39 57.70	− 0.10	− **0.42**	52 32 8.92	27.662	+1 16.8	**63.4**	21 39 57.18	− 0.29	−13 41 43.0	....
	March 10, Br.												
33	Sun I, S..........	9	19 16.79	− 0.08	− **0.41**	43 22 6.10	29.920	+ 55.1	**63.4**	23 19 16.30	+64.86	− 4 32 22.7	....
34	Sun II, N.........	9	21 26.51	− 0.08	− **0.41**	42 50 6.52	29.458	+ 54.0	**63.4**	23 21 26.02	−64.86	− 4 0 9.4	....
35	α Andromedæ	9	3 19.72	− 0.02	− 0.36	10 18 9.52	28.467	+ 10.6	64.9	0 3	.....	.. ..	....
36	γ Pegasi...........	5	8 11.92	− 0.05	− 0.44	24 12	......	....	....	0 8	.....	.. ..	....
37	μ Andromedæ	8	51 19.34	0.00	− 0.41	0 54 10.42	26.318	+ 1.0	63.7	0 51	.....	.. ..	....
38	β Andromedæ	9	4 15.27	0.00	− 0.42	3 46 7.32	26.340	+ 3.9	63.0	1 4	.....	.. ..	....
39	β Arietis	9	49 14.31	− 0.04	− 0.36	18 32 18.75	26.189	+ 19.4	62.7	1 49	.....	.. ..	....
40	α Arietis	9	1 39.82	− 0.03	− 0.45	15 52 11.95	26.084	+ 16.4	62.7	2 1	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
6 0 3	......	....	36.5
0 8	29.888	36.1	36.9
0 32	......	....	37.5
0 51	......	....	38.0
1 4	29.898	39.0	38.6
19 27	30.108	30.9	32.1
19 42	......	....	33.2
19 46	30.122	32.9	33.9
20 6	......	....	35.0
20 42	30.124	36.7	38.2
21 11	30.126	39.1	40.1
7 23 10	30.124	46.2	48.0
1 4	30.096	52.1	52.7
9 19 42	......	....	39.9
19 46	30.078	38.8	40.1
19 54	......	....	41.0
20 6	30.082	40.3	41.3
21 12	30.088	44.0	45.1
21 40	30.092	46.8	47.1
10 23 22	30.092	51.8	52.3
0 3	......	....	53.0
0 8	30.078	53.0	53.8
0 51	......	....	54.8
1 4	30.064	55.4	55.0
1 49	......	....	56.6
2 2	30.062	57.5	57.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 12, 30, 35. Bisections at II, VI, VII.
16, 33. Bisections at I, II, III.
17, 34. Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
15	+ 19.4	− 25.5	...	− 6.1
16	+ 6.2	−16 8.0	...	−16 1.8
17	+ 6.2	+16 7.9	...	+16 14.1
31	+ 18.6	− 24.3	...	− 5.7
32	+ 8.5	....	− 0.6	+ 7.9
33	+ 6.1	+16 6.6	...	+16 12.7
34	+ 6.0	−16 6.6	...	−16 0.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	March 10, Hd.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Tauri............	9	22 55.13	+ 0.03	[− 0.37]	19 54	......	....	....	4 22	.....	.. ..	....
2	ε Ursæ Minoris S. P.	8	55 57.34	− 0.12	[− 0.37]	301 4	......	....	....	16 55	.....	.. ..	....
3	δ Ursæ Minoris S. P.	9	3 41.87	− 0.33	[− 0.16]	305 30	......	....	....	18 3	.....	.. ..	....
4	η Geminorum	9	8 59.88	+ 0.03	[− 0.35]	16 20	......	....	....	6 8	.....	.. ..	....
	March 11, Hd.												
5	ε Tauri............	9	22 55.08	+ 0.02	[− 0.33]	19 54	......	....	....	4 22	.....	.. ..	....
6	ε Ursæ Minoris S. P.	8	55 57.24	+ 0.14	[− 0.37]	301 4	......	....	....	16 55	.....	.. ..	....
7	ι Geminorum	9	58 11.97	+ 0.02	[− 0.46]	15 34	......	....	....	5 58	.....	.. ..	....
8	δ Ursæ Minoris S. P.	9	3 40.72	+ 0.27	[+ 0.79]	305 30	......	....	....	18 3	.....	.. ..	....
	March 13, Br.												
9	β Arietis	5	49 14.75	− 0.10	− 0.77	18 32 8.10	26.605	+ 19.0	63.4	1 49	.....	.. ..	....
10	α Arietis	9	1 40.13	− 0.09	− 0.73	15 52 9.55	26.209	+ 16.2	63.3	2 1	.....	.. ..	....
11	Moon I..........	9	36 21.93	− 0.11	− **0.74**	24 30	......	....	....	2 36 21.08	+70.16	.. ..	....
12	α Ceti.............	9	57 10.74	− 0.13	− 0.72	35 8 8.30	29.068	+ 40.4	63.2	2 57	.....	.. ..	....
13	f Tauri............	9	25 29.26	− 0.11	− 0.68	26 14	......	....	....	3 25	.....	.. ..	....
14	ε Eridani..........	9	28 20.19	− 0.16	− 0.75	48 38	......	....	....	3 28	.....	.. ..	....
15	η Tauri............	9	41 41.27	− 0.09	− 0.76	15 4 9.55	25.966	+ 15.5	64.6	3 41	.....	.. ..	....
16	θ Aquilæ..........	9	6 16.54	− 0.25	− 0.87	39 58 4.68	26.645	+ 50.0	64.6	20 6	.....	.. ..	....
17	α Delphini	9	35 6.51	− 0.17	− 0.85	23 16 6.30	30.188	+ 25.7	63.0	20 35	.....	.. ..	....
18	ε Cygni	9	42 15.74	− 0.06	− 0.83	5 16 4.62	26.455	+ 5.5	64.8	20 42	.....	.. ..	....
19	ζ Cygni	9	8 46.90	− 0.09	− 0.84	9 2 3.48	27.711	+ 9.5	63.0	21 8	.....	.. ..	....
20	Venus II, N......	9	16 16.24	− 0.29	− **0.83**	48 28 2.75	27.434	+1 7.0	**64.4**	21 16 15.12	− 1.53	− 9 37 19.6	....
21	ε Pegasi...........	9	39 23.49	− 0.20	− 0.77	29 26 9.85	26.548	+ 33.5	65.6	21 39	.....	.. ..	....
22	Mercury II, C....	9	52 27.32	− 0.31	− **0.82**	52 16 8.62	27.672	+1 16.4	**64.4**	21 52 26.19	− 0.26	−13 25 41.6	....
	March 14, Br.												
23	Sun I, N	9	33 59.34	− 0.24	− **0.79**	41 16 1.58	29.202	+ 51.6	**64.4**	23 33 58.31	+64.73	− 2 25 53.2	....
24	Sun II, S........	9	36 8.79	− 0.24	− **0.79**	41 48 1.40	29.582	+ 52.5	**64.4**	23 36 7.76	−64.72	− 2 58 5.3	....
25	α Andromedæ	8	3 20.19	− 0.09	− 0.75	10 18 7.78	28.534	+ 10.7	64.6	0 3	.....	.. ..	....
26	β Persei	9	1 49.01	− 0.02	− 0.74	358 16 10.42	29.355	− 1.7	64.8	3 1	.....	.. ..	....
27	Moon I..........	9	37 27.97	− 0.11	− **0.74**	21 42	......	....	....	3 37 27.12	+71.13	.. ..	....
28	η Tauri............	9	41 41.27	− 0.09	− 0.78	15 4 6.70	26.060	+ 15.7	64.5	3 41	.....	.. ..	....
29	ζ Persei	9	48 0.06	− 0.06	− 0.74	7 16 14.45	27.184	+ 7.5	64.4	3 47	.....	.. ..	....
	March 19, L.												
30	β Cancri...........	9	11 15.31	− 0.16	− 1.02	29 22	......	....	....	8 11	.....	.. ..	....
31	η Cancri...........	9	27 5.91	− 0.12	− 1.00	18 3 49.00	30.414	+ 19.4	62.2	8 27	.....	.. ..	....
32	σ Hydræ	9	33 41.44	− 0.18	− 0.98	35 10 19.98	27.275	+ 41.8	62.3	8 33	.....	.. ..	....
33	Moon I, N	9	39 46.50	− 0.15	− **1.00**	26 2 15.85	27.274	+ 29.0	**62.3**	8 39 45.35	+67.34	+12 49 7.6	....
34	σ² Cancri (*mean*) ...	9	48 19.52	− 0.08	− 1.01	7 54 20.42	28.390	+ 8.3	62.5	8 48	.....	.. ..	....
	March 19, Br.												
35	ε Cygni	9	42 16.07	− 0.06	− 1.02	5 14 5.28	30.652	+ 5.5	64.2	20 42	.....	.. ..	....
36	ζ Cygni	9	8 47.24	− 0.07	− 1.06	9 2 2.15	27.741	+ 9.5	61.8	21 8	.....	.. ..	....
37	Venus II, N	8	25 46.71	− 0.19	− **1.05**	48 48 6.50	27.962	+1 7.8	**63.2**	21 25 45.47	− 1.39	− 9 57 40.4	....
38	ε Pegasi	9	39 23.81	− 0.12	− 1.06	29 26 3.82	26.695	+ 33.5	63.6	21 39	.....	.. ..	....
39	α Pegasi	9	59 53.99	− 0.07	− 1.07	24 10 8.80	28.519	+ 26.5	62.1	22 59	.....	.. ..	....
	March 20, Br.												
40	Sun I, S.........	9	55 54.52	− 0.10	− **1.09**	39 26 5.15	29.222	+ 48.3	**63.2**	23 55 53.33	+64.45	− 0 35 55.3	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
13 1 49	29.568	61.0	57.1
2 2	......	....	56.6
2 57	29.614	59.5	52.0
3 42	29.646	56.8	50.0
20 6	30.042	40.2	40.0
20 35	......	....	41.1
20 42	......	....	41.4
21 9	......	....	42.0
21 16	30.060	43.7	42.8
21 39	......	....	43.3
21 52	30.066	45.5	44.0
14 23 36	30.064	48.2	48.0
0 3	......	....	48.9
3 2	30.088	54.5	52.7
3 42	......	....	52.7
3 48	30.108	54.2	52.8
19 8 27	29.506	35.2	34.0
8 40	......	....	34.0
9 15	29.508	34.8	34.0
20 42	29.658	34.1	34.6
21 9	......	....	35.4
21 26	29.670	36.3	36.0
21 39	......	....	36.9
23 0	29.678	41.7	40.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

9. Bisections at I, II.
21. Bisections at VI, VII.
23, 40. Bisections at I, II, III.
24. Bisections at V, VI, VII.
33. Bisections at II, III, IV, V, VI.
35, 38. Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
20	+ 17.5	− 22.8	...	− 5.3
22	+ 7.9	....	− 0.6	+ 7.3
23	+ 5.8	−16 6.0	...	−16 0.2
24	+ 5.9	+16 6.0	...	+16 11.9
33	+25 15.0	−15 47.5	...	+ 9 27.5
37	+ 16.0	− 20.6	...	− 4.6
40	+ 5.6	+16 4.3	...	+16 9.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun II, N	9	58 3.42	− 0.10	− **1.09**	38 53 58.48	29.167	+ 47.4	**63.2**	23 58 2.23	−64.45	− 0 3 46.7	....
2	β Andromedæ	9	4 15.96	+ 0.02	− 1.19	3 46 2.85	26.594	+ 3.9	64.1	1 4	.... .	.. ..	....
3	β Arietis	7	49 14.96	− 0.03	− 1.10	18 32 1.02	26.888	+ 19.6	64.1	1 49	.....	.. ..	....
4	α Arietis	9	1 40.33	− 0.02	− 1.06	15 52 5.68	26.338	+ 16.6	62.8	2 1	.....	.. ..	....
5	θ Hydræ	9	9 19.10	− 0.10	− 0.76	36 6 3.45	30.986	+ 42.7	63.7	9 9	.....	.. ..	....
6	α Hydræ	9	22 49.51	− 0.12	− 0.78	47 4 3.28	29.701	+1 2.9	63.5	9 22	.....	.. ..	....
7	Moon I, N	9	34 21.42	− 0.09	− **0.75**	29 54 4.82	29.707	+ 33.7	**63.3**	9 34 20.58	+65.83	+ 8 56 5.6	....
8	ε Leonis	9	40 20.64	− 0.07	− 0.74	14 38 4.50	27.808	+ 15.3	63.1	9 40	.....	.. ..	....
9	μ Leonis	9	47 14.73	− 0.07	− 0.73	12 22 6.15	30.761	+ 12.9	62.1	9 47	.....	.. ..	....
10	π Leonis	9	55 5.33	− 0.09	− 0.73	30 20 7.00	28.598	+ 34.3	63.9	9 55	.....	.. ..	....
	March 20, Hd.												
11	ε Ursæ Minoris	8	55 58.41	+ 0.52	[− 0.41]	316 40	......	....	....	16 55	.....	.. ..	....
12	α Herculis	9	10 12.72	− 0.08	[− 0.51]	24 20	......	....	....	17 10	.....	.. ..	....
13	δ Ursæ Minoris	9	3 44.20	+ 1.31	[− 0.45]	312 14	......	....	....	18 3	.....	.. ..	....
14	η Serpentis	9	16 16.23	− 0.12	[− 0.57]	41 46	......	....	....	18 16	.....	.. ..	....
	March 20, B.												
15	ε Cygni	9	42 15.34	− 0.04	− 0.28	5 14 12.55	30.372	+ 5.4	63.4	20 42	.....	.. . .	....
16	ζ Cygni	9	8 46.46	− 0.05	− 0.28	9 2 17.42	27.232	+ 9.3	62.2	21 8	.....	.. ..	....
17	Venus II, N	9	27 44.54	− 0.11	− **0.29**	48 50 14.50	26.136	+1 6.2	**63.2**	21 27 44.14	− 1.37	− 9 58 54.8	....
18	ε Pegasi	9	39 23.01	− 0.08	− 0.29	29 26 17.35	26.280	+ 32.7	64.6	21 39	.....	.. ..	....
19	α Aquarii	9	0 45.67	− 0.08	− 0.31	39 38 13.85	28.515	+ 47.8	63.9	22 0	.....	.. ..	....
20	Mercury II, C	9	21 20.01	− 0.09	− **0.29**	50 44 12.52	28.189	+1 10.4	**63.2**	22 21 19.63	− 0.23	−11 53 55.5	....
	March 21, B.												
21	Sun I, N	9	59 31.98	− 0.06	− **0.30**	38 30 14.15	29.313	+ 45.4	**63.2**	23 59 31.62	+64.61	+ 0 19 56.0	....
22	Sun II, S	9	1 41.20	− 0.06	− **0.30**	39 2 14.55	29.590	+ 46.3	**63.2**	0 1 40.84	−64.61	− 0 12 13.7	....
23	γ Pegasi	9	8 11.83	− 0.05	− 0.33	24 12 8.25	29.369	+ 25.7	63.7	0 8	.....	.. ..	....
24	β Andromedæ	9	4 15.11	− 0.03	− 0.29	3 46 8.70	26.385	+ 3.8	63.7	1 4	.....	.. ..	....
25	β Arietis	8	49 14.18	− 0.04	− 0.32	18 32 12.72	26.450	+ 19.0	62.7	1 49	.....	.. ..	....
26	α Arietis	9	1 39.53	− 0.04	− 0.25	15 52 8.35	26.229	+ 16.1	61.8	2 1	.....	.. ..	....
27	γ^1 Leonis	9	14 37.03	− 0.05	− 0.28	18 30 21.78	29.766	+ 19.4	61.4	10 14	.....	.. ..	....
28	μ Hydræ	9	21 23.92	− 0.08	− 0.27	55 10 22.90	28.534	+1 23.1	61.7	10 21	.....	.. ..	....
29	Moon I, N	9	26 51.01	− 0.06	− **0.26**	34 10 21.48	33.937	+ 39.4	**61.9**	10 26 50.69	+64.59	+ 4 37 41.3	....
30	41 Leonis Minoris	9	38 8.14	− 0.05	− 0.25	15 8 22.98	30.192	+ 15.7	62.4	10 38	.....	.. ..	....
31	l Leonis	9	44 9.19	− 0.06	− 0.23	27 46 23.65	30.276	+ 30.5	62.1	10 44	.....	.. ..	....
	March 22, L.												
32	p^3 Leonis	9	1 57.48	− 0.09	− 0.56	36 20 18.28	31.230	+ 42.6	61.1	11 1	.....	.. ..	....
33	δ Leonis	9	8 57.02	− 0.06	− 0.58	17 46 19.65	31.158	+ 18.6	61.5	11 8	.....	.. ..	....
34	δ Crateris	9	14 29.79	− 0.12	− 0.59	53 4 18.22	30.391	+1 16.9	61.7	11 14	.....	.. ..	....
35	Moon I, N	9	17 47.32	− 0.09	− **0.58**	38 42 15.38	26.462	+ 46.3	**61.2**	11 17 46.65	+63.72	+ 0 9 8.3	....
36	Moon S	..	.. ..	....	.....	39 12 11.75	29.342	+ 47.2	**61.2**	.. ..	.....	− 0 22 1.9	....
37	υ Leonis	9	31 59.08	− 0.09	− 0.57	39 8 17.95	27.331	+ 47.1	61.6	11 31	.....	.. ..	....
38	π Virginis	9	55 54.26	− 0.08	− 0.60	31 40 13.55	30.750	+ 35.8	60.3	11 55	.....	.. ..	....
	March 22, Hd.												
39	ε Ursæ Minoris	9	55 58.59	+ 0.73	[− 0.49]	316 40	......	....	....	16 55	.....	.. ..	....
40	α Herculis	9	10 12.77	− 0.11	[− 0.47]	24 20	......	....	....	17 10	.....	.. ..	....
41	δ Ursæ Minoris	9	3 44.29	+ 1.83	[− 0.27]	312 14	......	....	....	18 3	.....	.. ..	....
42	η Serpentis	9	16 16.29	− 0.16	[− 0.53]	41 46	......	....	....	18 16	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
20	23	58	29.672	42.8	42.0
	1	4	29.664	44.3	43.7
	1	49	29.656	45.9	44.2
	2	2	......	....	45.4
	3	3	29.656	46.9	....
	9	9	29.656	42.5	43.0
	9	23	......	....	43.2
	9	34	......	....	43.6
	9	55	29.672	43.2	43.5
	20	43	29.728	44.6	46.8
	21	11	29.752	46.3	48.5
	21	28	29.756	47.3	49.4
	21	39	29.762	48.6	50.2
	22	1	29.764	50.8	51.6
	22	21	29.766	52.6	52.4
21	0	1	29.756	56.0	56.8
	0	10	29.758	56.5	57.4
	1	4	29.750	58.2	59.7
	1	49	......	....	60.0
	2	2	29.744	62.2	60.2
	10	10	29.764	52.5	50.2
	10	46	29.752	51.3	50.0
22	11	2	29.790	52.1	51.0
	11	18	......	....	51.0
	11	56	29.788	50.9	49.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 22, 36.	Bisections at V, VI, VII.
3, 8.	Bisections at VI, VII.
7, 29.	Bisections at II, III, IV, V, VI.
21, 35.	Bisections at I, II, III.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 5.6	−16 4.3	...	−15 58.7
7	+28 28.7	−15 39.8	...	+12 48.9
17	+ 15.8	− 20.3	...	− 4.5
20	+ 7.0	....	− 0.5	+ 6.5
21	+ 5.5	−16 4.8	...	−15 59.3
22	+ 5.6	+16 4.8	...	+16 10.4
29	+31 51.3	−15 31.8	...	+16 19.5
35	+35 6.7	−15 23.2	...	+19 43.5
36	+35 30.7	+15 23.2	− 0.2	+50 53.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	March 23, Hd.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Ursæ Minoris S. P.	9	3 47.28	− 0.71	[− 0.52]	305 30	......	....	....	18 3	.....	.. ..	....
2	η Geminorum	9	8 59.66	0.00	[− 0.36]	16 20	......	....	....	6 8	.....	.. ..	....
3	ε Geminorum	8	37 56.34	0.00	[− 0.42]	13 36	......	....	....	6 37	.....	.. ..	....
4	51 H. Cephei	8	54 58.65	+ 0.85	[− 0.75]	311 40	......	....	....	6 54	.....	.. ..	....
	March 23, S.												
5	β Leonis	9	44 6.53	− 0.09	− 0.24	23 44 21.18	27.618	+ 25.6	61.7	11 44	.....	.. ..	....
6	π Virginis.........	9	55 53.89	− 0.10	− 0.20	31 40 20.15	30.574	+ 35.9	62.0	11 55	.....	.. ..	....
7	Moon I, S	9	7 43.99	− 0.12	− **0.22**	43 36 21.25	29.642	+ 55.4	**62.1**	12 7 43.65	+63.21	− 4 46 31.8	....
8	Moon II.........	9	9 50.41	− 0.12	− **0.22**	43 22	......	....	....	12 9 50.07	−63.21	.. ..	....
9	η Virginis.........	9	14 56.48	− 0.10	− 0.28	38 58 22.85	27.926	+ 47.0	62.1	12 14	.....	.. ..	....
10	γ Virginis (*mean*) ..	9	36 44.53	− 0.10	− 0.18	39 44 18.22	30.948	+ 48.4	62.7	12 36	.....	.. ..	....
	March 23, Hd.												
11	δ Ursæ Minoris	8	3 43.92	+ 1.63	[+ 0.70]	312 14	......	....	....	18 3	.....	.. ..	....
12	η Serpentis	9	16 16.12	− 0.13	[− 0.36]	41 46	......	.. .	....	18 16	.....	.. ..	....
13	51 H. Cephei S. P	9	55 0.72	− 2.18	[− 0.03]	306 4	......	....	....	6 54	.....	.. ..	....
14	ζ Aquilæ..........	9	0 55.74	− 0.09	[− 0.35]	25 8	......	....	....	19 0	.....	.. ..	....
	March 23, Br.												
15	ζ Cygni...........	9	8 46.59	− 0.07	− 0.32	9 2 6.72	27.568	+ 9.2	60.6	21 8	.....	.. ..	....
16	Venus II, N	9	34 15.60	− 0.16	− **0.35**	48 48 5.00	30.624	+1 5.8	**61.8**	21 34 15.09	− 1.31	− 9 58 54.2	....
17	ε Pegasi...........	9	39 23.20	− 0.11	− 0.39	29 26 8.60	26.575	+ 32.5	64.1	21 39	.....	.. ..	....
18	Mercury C, C	9	35 39.46	− 0.17	− **0.34**	49 42 5.40	28.645	+1 7.5	**61.8**	22 35 38.95	− 0.06	−10 51 59.9	....
	March 24, Br.												
19	Sun I, N.........	9	10 26.96	− 0.12	− **0.33**	37 20 4.50	27.702	+ 43.2	**61.8**	0 10 26.51	+64.39	+ 1 30 52.4	....
20	Sun II, S.........	9	12 35.74	− 0.12	− **0.33**	37 52 4.05	27.853	+ 44.1	**61.8**	0 12 35.29	−64.39	+ 0 58 47.1	....
21	β Andromedæ	9	4 15.17	− 0.05	− 0.33	3 45 59.92	26.650	+ 3.8	62.0	1 4	.....	.. ..	....
22	β Arietis	8	49 14.20	− 0.07	− 0.32	18 32 4.08	26.705	+ 18.9	61.0	1 49	.....	.. ..	....
23	α Arietis	9	1 39.59	− 0.06	− 0.31	15 52 3.12	26.411	+ 16.0	61.3	2 1	.....	.. ..	....
24	δ^2 Corvi............	9	24 50.80	− 0.25	− 0.22	54 48 6.32	29.030	+1 23.1	62.2	12 24	.....	.. ..	....
25	31 Comæ Berenices..	9	46 58.33	− 0.13	− 0.23	10 46 8.62	30.142	+ 11.3	62.4	12 46	.....	.. ..	....
26	α Canum Venat....	9	51 29.46	− 0.10	− 0.23	0 0	......	....	....	12 51	.....	.. ..	....
27	Moon II, S	9	59 21.66	− 0.23	− **0.24**	47 44 7.95	30.651	+1 4.7	**61.9**	12 59 21.19	−63.15	− 8 54 56.8	....
28	θ Virginis.........	9	4 55.56	− 0.22	− 0.24	43 50 4.88	31.511	+ 56.5	60.7	13 4	.....	.. ..	....
29	α Virginis	9	20 4.88	− 0.23	− 0.24	49 28 5.05	31.166	+1 8.9	62.4	13 20	.....	.. ..	....
30	ζ Virginis.........	9	29 44.89	− 0.20	− 0.25	38 56 7.38	29.098	+ 47.7	61.8	13 29	.....	.. ..	....
	March 24, B.												
31	ζ Cygni..........	9	8 46.44	− 0.08	− 0.14	9 2 12.38	27.391	+ 9.5	61.6	21 8	.....	.. ..	....
32	ι Pegasi...........	9	17 33.81	− 0.12	− 0.04	19 28 10.88	27.826	+ 20.9	62.8	21 17	.....	.. ..	....
33	β Aquarii..........	9	26 24.69	− 0.22	− 0.02	44 50 12.52	28.856	+ 58.6	61.4	21 26	.....	.. ..	....
34	Venus II, N......	9	36 36.61	− 0.23	− **0.06**	48 48 13.42	27.680	+1 7.2	**62.4**	21 36 36.32	− 1.29	− 9 57 39.5	....
35	ε Pegasi...........	9	39 22.93	− 0.16	− 0.05	29 26 14.95	26.350	+ 33.2	64.7	21 39	.....	.. ..	....
	March 25 B.												
36	Sun I, S.........	9	14 4.71	− 0.16	− **0.06**	37 28 6.65	28.763	+ 44.6	**62.4**	0 14 4.49	+64.55	+ 1 22 19.2	....
37	Sun II, N.........	9	16 13.82	− 0.16	− **0.06**	36 56 6.20	28.477	+ 43.7	**62.4**	0 16 13.60	−64.56	+ 1 54 28.1	....
38	β Andromedæ	9	4 14.93	− 0.05	− 0.09	3 46 5.82	26.451	+ 3.9	62.2	1 4	.....	.. ..	....
39	β Arietis	7	49 14.00	− 0.10	− 0.10	18 32 7.95	26.588	+ 19.4	62.0	1 49	.....	.. ..	....
40	α Arietis	9	1 39.30	− 0.09	+ 0.01	15 52 6.00	26.321	+ 16.4	61.9	2 1	.....	.. ..	....
	March 25, Hd.												
41	δ Ursæ Minoris S. P.	8	3 48.90	− 1.74	[− 0.29]	305 30	......	....	....	18 3	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
23 11 42	29.809	51.8	49.4
12 46	29.800	50.6	48.2
21 9	29.796	50.9	52.0
21 34	......	....	53.0
21 39	29.794	53.0	53.3
22 36	29.782	55.7	55.5
24 0 13	29.758	60.3	60.3
1 4	29.738	61.2	60.9
1 49	29.724	63.0	62.5
2 2	29.720	63.5	62.6
12 25	29.808	46.8	44.0
12 47	......	....	43.2
12 59	......	....	43.0
13 5	29.812	45.0	42.9
13 30	29.818	44.5	42.1
21 9	29.924	43.3	43.8
21 39	29.930	46.0	44.8
25 0 16	29.930	53.0	50.4
1 4	29.926	53.6	52.2
2 6	29.916	55.2	53.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 15. Bisections at II, VI, VII.
7. Bisections at II, IV, VI.
18. Bisections at I, II, VII.
19, 36. Bisections at I, II, III.
20, 37. Bisections at V, VI, VII.
27. Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+38 24.8	+15 15.1	...	+53 39.9
16	+ 15.1	− 19.4	...	− 4.3
18	+ 6.6	....	− 0.5	+ 6.1
19	+ 5.4	−16 2.6	...	−15 57.2
20	+ 5.4	+16 2.7	...	+16 8.1
27	+40 52.2	+15 7.0	...	+55 59.2
34	+ 14.9	− 19.1	...	− 4.2
36	+ 5.4	+16 4.4	...	+16 9.8
37	+ 5.3	−16 4.4	...	−15 59.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Geminorum	9	8 59.43	− 0.09	[− 0.08]	16 20	......	....	....	6 8	.....	.. ..	....
2	51 H. Cephei	9	54 56.30	+ 1.87	[− 0.38]	311 40	......	....	....	6 54	.....	.. ..	....
3	63 Aurigæ..........	9	4 57.18	− 0.05	[− 0.13]	359 22	......	....	....	7 4	.....	.. ..	....
	March 25, B.												
4	α Virginis	9	20 4.60	− 0.24	0.00	49 30 5.55	26.965	+1 9.6	63.8	13 20	.....	.. ..	....
5	ζ Virginis	9	29 44.64	− 0.21	+ 0.02	38 56 2.72	29.266	+ 48.1	62.3	13 29	.....	.. ..	....
6	Moon II, S	9	48 55.61	− 0.26	+ **0.02**	51 26 3.30	29.754	+1 14.8	**61.9**	13 48 55.37	−63.35	−12 36 36.6	....
7	π Hydræ.........	9	0 50.53	− 0.30	+ 0.03	65 2 4.78	28.085	+2 7.6	59.8	14 0	.....	.. ..	....
8	κ Virginis	9	7 42.83	− 0.24	+ 0.01	48 40 5.38	27.016	+1 7.8	61.8	14 7	.....	.. ..	....
	March 25, Hd.												
9	δ Ursæ Minoris	9	3 44.02	+ 2.21	[+ 0.83]	312 14	......	....	....	18 3	.....	.. ..	....
10	η Serpentis	9	16 16.07	− 0.18	[− 0.20]	41 46	......	....	....	18 16	.....	.. ..	....
11	51 H. Cephei S. P....	9	55 0.61	− 2.96	[− 0.10]	306 4	......	....	....	6 54	.....	.. ..	....
12	ζ Aquilæ	9	0 55.62	− 0.12	[− 0.15]	25 8	......	....	....	19 0	.....	.. ..	....
	March 25, L.												
13	ζ Cygni	9	8 46.56	− 0.06	− 0.25	9 2 28.65	26.742	+ 9.5	59.1	21 8	.....	.. ..	....
14	Venus II, N......	9	39 3.11	− 0.15	− **0.27**	48 46 21.28	27.709	+1 7.1	**61.4**	21 39 2.69	− 1.27	− 9 55 49.0	....
15	Mercury C, C....	8	45 42.08	− 0.15	− **0.24**	48 54 25.35	27.450	+1 6.8	**61.4**	22 45 41.69	− 0.06	−10 3 45.5	....
16	α Pegasi	9	59 53.28	− 0.09	− 0.27	24 10	......	....	....	22 59	.....	.. ..	....
	March 26, L.												
17	Sun I, S.........	9	17 42.90	− 0.12	− **0.21**	37 4 23.38	29.148	+ 43.8	**61.4**	0 17 42.57	+64.52	+ 1 45 51.3	....
18	Sun II, N........	9	19 51.94	− 0.12	− **0.21**	36 32 22.20	28.850	+ 42.9	**61.4**	0 19 51.61	−64.52	+ 2 18 1.3	....
19	η Tauri	9	41 40.52	− 0.07	− 0.23	15 4 19.92	25.566	+ 15.5	62.6	3 41	.....	.. ..	....
20	ζ Persei	9	47 59.22	− 0.05	− 0.12	7 16 29.92	26.616	+ 7.4	62.5	3 47	.....	.. ..	....
21	ε Tauri............	9	22 54.66	− 0.08	− 0.07	19 54 23.70	26.034	+ 20.9	61.9	4 22	.....	.. ..	....
22	α Tauri	9	30 18.89	− 0.09	− 0.10	22 32 24.50	28.109	+ 24.0	60.8	4 30	.....	.. ..	....
	March 26, Hd.												
23	1 H. Draconis	5	23 16.15	+ 0.45	[+ 0.04]	317 6	......	....	....	9 23	.....	.. ..	....
24	α Leonis	9	3 11.82	− 0.13	[− 0.09]	26 24	......	....	....	10 3	.....	.. ..	....
	March 27, Hd.												
25	1 H. Draconis	9	23 15.97	+ 0.34	[+ 0.22]	317 6	......	....	....	9 23	.....	.. ..	....
26	α Leonis	9	3 11.67	− 0.12	[+ 0.04]	26 24	......	....	....	10 3	.....	.. ..	....
	March 29, Hd.												
27	1 H. Draconis	9	23 15.73	+ 0.52	[+ 0.07]	317 6	......	....	....	9 23	.....	.. ..	....
28	α Leonis	9	3 11.40	− 0.14	[+ 0.31]	26 24	......	....	....	10 3	.....	.. ..	....
29	θ Virginis.........	9	4 55.11	− 0.18	[+ 0.22]	43 52	......	....	....	13 4	.....	.. ..	....
30	α Ursæ Minoris S. P.	9	23 1.50	− 4.64	[+ 1.08]	307 40	......	....	....	1 22	.....	.. ..	....
	March 29, L.												
31	ζ Ophiuchi........	9	31 47.91	− 0.20	+ 0.14	49 12 4.02	29.126	+1 7.0	64.0	16 31	.....	.. ..	....
32	η Ophiuchi........	9	4 47.62	− 0.22	+ 0.05	54 26 5.52	28.686	+1 20.6	64.2	17 4	.....	.. ..	....
33	Moon II, S	9	12 12.70	− 0.24	+ **0.11**	59 10 5.35	28.006	+1 36.5	**63.8**	17 12 12.57	−64.98	−20 20 8.7	....
34	θ Ophiuchi........	9	16 1.67	− 0.25	+ 0.13	63 44 6.55	27.010	+1 56.6	63.7	17 16	.....	.. ..	....
35	b Ophiuchi........	9	20 25.29	− 0.25	+ 0.11	62 54	......	....	....	17 20	.....	.. ..	....
36	Uranus C, C	9	22 1.52	− 0.24	+ **0.11**	62 4 5.65	26.810	+1 48.6	**63.8**	17 22 1.39	.....	−23 13 46.8	....
37	γ^2 Sagittarii........	9	59 32.81	− 0.27	+ 0.11	69 14 10.98	28.440	+2 32.0	63.5	17 59	.....	.. ..	....
	March 30, Hd.												
38	1 H. Draconis......	9	23 14.97	+ 0.80	[+ 0.44]	317 6	......	....	....	9 23	.....	.. ..	....
39	α Leonis	9	3 11.19	− 0.14	[+ 0.51]	26 24	......	....	....	10 3	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
25 13 20	30.000	42.3	40.8
13 30	....	....	40.2
14 8	30.004	41.4	39.2
21 9	30.070	44.2	45.3
21 39	30.076	47.0	47.6
22 46	30.074	52.0	51.8
23 0	......	...	52.8
26 0 20	30.078	55.2	55.1
3 42	30.050	59.0	57.4
4 23	....	....	56.6
4 30	30.044	58.0	56.1
29 16 32	29.538	48.9	47.0
17 5	....	....	47.8
17 22	....	....	47.4
18 0	29.546	48.0	46.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

6, 33. Bisections at II, III, IV, V, VI.
13. Bisections at VI, VII.
17. Bisections at I, II, III.
18. Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+42 50.2	+14 59.6	...	+57 49.8
14	+ 14.6	− 18.8	...	− 4.2
15	+ 6.4	....	− 0.4	+ 6.0
17	+ 5.3	+16 5.0	...	+16 10.3
18	+ 5.3	−16 5.0	...	−15 59.7
33	+46 26.4	+14 47.9	...	+61 14.3
36	+ 0.4	....	...	+ 0.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	March 31, Br.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Serpentis........	9	16 15.81	— 0 31	+ 0.36	41 45 58.50	28.295	+ 52.1	62.0	18 16	.....	.. ..	....
2	I Aquilæ..........	9	29 53.93	— 0.32	+ 0.38	47 10 6.18	26.071	+1 2.8	61.3	18 29	.....	.. ..	....
3	Moon II	9	56 13.47	— 0.36	+ **0.40**	57 32	......	....	....	18 56 13.51	—65.18	.. ..	....
4	ζ Aquilæ..........	9	0 55.32	— 0.26	+ 0.46	25 8 1.55	28.044	+ 27.4	60.8	19 0	.....	.. ..	....
5	δ Aquilæ..........	9	20 34.50	— 0.29	+ 0.40	35 55 59.28	27.289	+ 42.2	61.4	19 20	.....	.. ..	....
	April 3, Hd.												....
6	I H. Draconis	9	23 14.74	+ 0.28	[+ 0.73]	317 6	......	....	....	9 23	.....	.. ..	....
7	α Leonis	9	3 11.09	— 0.22	[+ 0.65]	26 24	......	....	....	10 3	.....	.. ..	....
8	θ Virginis.........	9	4 54.86	— 0.26	[+ 0.59]	43 52	......	....	....	13 4	.....	.. ..	....
9	α Ursæ Minoris S. P.	9	22 59.00	— 3.65	[+ 1.74]	307 40	......	....	....	1 22	.....	.. ..	....
	April 5, Hd.												
10	I H. Draconis.	9	23 14.31	+ 0.21	[+ 1.00]	317 6	......	....	....	9 23	... .	.. ..	....
11	α Leonis	9	3 10.80	— 0.16	[+ 0.86]	26 24	......	....	....	10 3	.....	.. ..	....
12	θ Virginis.........	9	4 54.63	— 0.19	[+ 0.77]	43 52	......	....	....	13 4	.....	.. ..	....
13	α Ursæ Minoris S. P.	9	22 59.17	— 2.62	[+ 0.22]	307 40	......	....	....	1 22	.....	.. ..	....
	April 11, Br.												
14	ε Pegasi...........	9	39 22.52	— 0.13	+ 0.73	29 25 54.18	27.005	+ 32.3	62.1	21 39	.....	.. ..	....
15	Venus II, N	9	30 14.54	— 0.17	+ **0.74**	46 45 52.40	27.009	+1 0.5	**62.4**	22 30 15.11	— 0.99	— 7 54 52.7	....
	April 12, Br.												
16	Sun II...........	9	21 52.82	— 0.08	+ **0.77**	30 20	......	....	....	1 21 53.51	—64.83	.. ..	....
17	β Eridani	9	3 1.76	— 0.07	+ 0.80	44 4 9.42	26.862	+ 54.2	61.6	5 3	.....	.. ..	....
18	β Orionis..........	9	9 49.50	— 0.07	+ 0.80	47 10 11.08	26.871	+1 0.4	62.4	5 9	.....	.. ..	....
19	Moon I..........	9	20 55.74	— 0.03	+ **0.81**	19 52	......	....	....	5 20 56.52	+72.37	.. . .	....
20	δ Orionis..........	9	26 59.99	— 0.06	+ 0.80	39 14 10.88	26.110	+ 45.7	62.5	5 27	.....	.. ..	....
21	ε Orionis	9	31 14.42	— 0.06	+ 0.83	40 6 15.60	29.245	+ 47.2	63.6	5 31	.....	.. ..	....
	April 12, Hd.												
22	I H.Draconis......	9	23 12.60	+ 1.02	[+ 1.02]	317 6	......	....	....	9 23	.....	.. ..	....
23	α Leonis......	9	3 10.62	— 0.09	[+ 0.89]	26 24	......	....	....	10 3	.....	.. ..	....
24	θ Virginis.........	4	4 54.61	— 0.15	[+ 0.78]	43 52	......	....	....	13 4	.....	.. ..	....
25	α Ursæ Minoris S. P.	8	23 5.05	— 7.84	[+ 0.27]	307 40	......	....	....	1 22	.....	.. ..	....
	April 13, Hd.												
26	I H. Draconis	9	23 12.24	+ 1.27	[+ 1.01]	317 6	......	....	....	9 23	.....	.. ..	....
27	α Leonis	9	3 10.60	— 0.14	[+ 0.94]	26 24	......	....	....	10 3	.....	.. ..	....
28	θ Virginis.........	9	4 54.60	— 0.21	[+ 0.85]	43 52	......	....	....	13 4	.....	.. ..	....
29	α Ursæ Minoris S. P.	9	23 5.82	— 9.98	[+ 1.80]	307 40	......	....	....	1 22	.....	.. ..	....
	April 13, Br.												
30	α Aquarii	9	0 45.13	— 0.17	+ 0.82	39 38 4.78	28.600	+ 48.7	59.8	22 0	.....	.. ..	....
31	Venus II, N......	9	37 7.60	— 0.20	+ **0.82**	46 20 5.62	29.854	+1 1.3	**60.4**	22 37 8.22	— 0.96	— 7 30 29.8	....
32	α Pegasi	9	59 52.57	— 0.11	+ 0.78	24 10 4.68	28.600	+ 26.2	59.7	22 59	.....	.. ..	....
33	α Andromedæ	9	3 18.80	— 0.06	+ 0.86	10 18 5.42	28.641	+ 10.6	61.7	0 3	.....	.. ..	....
	April 15, S.												
34	β Canis Minoris....	9	21 50.59	— 0.13	+ 1.11	30 22 5.28	27.739	+ 34.0	61.0	7 21	.....	.. ..	....
35	φ Geminorum	9	47 30.63	— 0.08	+ 1.15	11 50 4.18	28.404	+ 12.2	61.0	7 47	.....	.. ..	....
36	ζ¹ Cancri...........	9	6 36.18	— 0.12	+ 1.16	20 54 2.75	29.371	+ 22.2	59.3	8 6	.....	.. ..	....
37	β Cancri	9	11 12.79	— 0.14	+ 1.05	29 22 4.55	27.678	+ 32.7	59.5	8 11	.....	.. ..	....
38	Moon I, N	9	22 49.43	— 0.13	+ **1.12**	25 6 5.65	26.890	+ 27.3	**60.0**	8 22 50.42	+67.85	+13 45 28.1	....
39	γ Cancri	9	37 37.76	— 0.11	+ 1.15	17 2 5.50	28.008	+ 17.9	58.9	8 37	.....	.. ..	....
40	κ Cancri	9	2 27.36	— 0.15	+ 1.09	27 46 1.90	31.041	+ 30.8	60.3	9 2	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
31 18 16	29.310	40.7	39.2
18 30	......	....	39.3
19 1	......	....	39.7
19 21	29.324	40.2	39.9
11 21 39	29.632	50.5	54.0
22 37	29.634	54.3	56.0
12 5 3	29.546	65.2	63.0
5 10	......	....	62.8
5 34	29.556	64.8	62.8
13 22 1	29.904	44.0	45.0
22 37	29.896	46.8	47.2
23 0	29.902	48.3	48.1
0 8	29.894	51.1	50.0
15 7 22	29.920	54.7	52.2
7 48	29.920	53.8	51.8
8 32	29.919	52.0	49.6
9 6	29.925	51.0	48.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1. Bisections at I, II, VI.
14. Bisections at VI, VII.
30. Bisections at I, II, VII.
38. Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
15	+ 11.0	— 14.7	...	— 3.7
31	+ 10.6	— 14.3	...	— 3.7
38	+24 28.4	—15 50.6	...	+8 37.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	April 15, Hd.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	θ Virginis.........	9	4 54.43	− 0.14	[+ 0.96]	43 52	......	....	....	13 4	.....	.. ..	....
2	α Ursæ Minoris S. P.	7	23 3.70	− 6.12	[+ 0.26]	307 40	......	....	....	1 22	.....	.. ..	....
	April 15, Br.												
3	Venus II, N	9	44 7.98	− 0.25	+ **0.95**	45 54 7.25	29.244	+1 0.3	**60.5**	22 44 8.68	− 0.93	− 7 4 12.9	....
4	α Pegasi	9	59 52.53	− 0.18	+ 0.93	24 10 8.80	28.436	+ 26.2	59.2	22 59	.....	.. ..	....
5	α Andromedæ	9	3 18.81	− 0.12	+ 0.96	10 18 8.22	28.496	+ 10.6	60.2	0 3	.....	.. ..	....
6	γ Pegasi	9	8 10.92	− 0.17	+ 0.95	24 12	......	....	....	0 8	.....	.. ..	....
7	Mercury II, C....	9	50 5.23	− 0.20	+ **0.95**	35 36 4.10	29.024	+ 41.3	**60.5**	0 50 5.98	− 0.17	+ 3 14 15.4	....
	April 16, Br.												
8	Sun I, N	9	34 27.84	− 0.17	+ **0.95**	28 36 4.62	30.465	+ 31.4	**60.5**	1 34 28.62	+65.00	+10 13 43.9	....
9	Sun II, S........	9	36 37.84	− 0.16	+ **0.95**	29 8 5.22	30.287	+ 32.1	**60.5**	1 36 38.63	−65.01	+ 9 41 47.2	....
10	α Ceti	7	57 8.86	− 0.15	+ 0.91	35 8 1.20	29.215	+ 40.2	60.7	2 57	.....	.. ..	....
11	η Tauri	7	41 39.16	− 0.08	+ 0.92	15 2 9.45	30.155	+ 15.4	61.3	3 41	.....	.. ..	....
12	ζ Persei	9	47 57.88	− 0.05	+ 0.97	7 16 3.98	27.590	+ 7.3	62.3	3 47	.....	.. ..	....
13	α Tauri	9	30 17.51	− 0.09	+ 1.01	22 32 6.52	28.721	+ 23.6	59.5	4 30	.....	.. ..	....
	April 17, Br.												
14	μ Leonis	9	47 12.61	+ 0.05	+ 0.91	347 30 6.08	25.868	− 12.6	26.7	9 47	.....	.. ..	....
15	π Leonis	9	55 3.30	0.00	+ 0.91	329 32 12.85	27.790	− 33.6	27.8	9 55	.....	.. ..	....
16	α Leonis	9	3 10.36	+ 0.01	+ 0.98	333 28 7.50	27.629	− 28.5	27.5	10 3	.....	.. ..	....
17	Moon I, N.......	9	10 17.57	0.00	+ **0.93**	326 58 11.42	29.678	− 37.1	**27.2**	10 10 18.50	+64.60	+ 5 57 25.4	....
18	ρ Leonis	9	27 40.42	+ 0.01	+ 0.91	330 50 9.82	27.402	− 31.9	27.7	10 27	.....	.. ..	....
19	41 Leonis Minoris ..	9	38 6.61	+ 0.04	+ 0.96	344 44 3.02	25.969	− 15.6	26.3	10 38	.....	.. ..	....
	April 17, Hd.												
20	θ Virginis.........	9	4 54.42	+ 0.01	[+ 0.82]	316 0	......	....	....	13 4	.....	.. ..	....
21	α Ursæ Minoris S. P.	9	23 1.62	− 5.36	[+ 1.70]	52 12	......	....	....	1 22	.....	.. ..	....
	April 18, S.												
22	ρ Leonis	9	27 40.24	− 0.01	+ 1.10	330 49 58.82	27.758	− 31.9	26.7	10 27	.....	.. ..	....
23	l Leonis	9	44 7.62	− 0.01	+ 1.09	332 6 8.15	25.668	− 30.3	27.8	10 44	.....	.. ..	....
24	Moon I, N.......	9	0 55.19	− 0.03	+ **1.10**	322 38 14.45	26.088	− 43.8	**27.7**	11 0 56.26	+63.56	+ 1 35 38.9	....
25	τ Leonis	9	22 55.23	− 0.03	+ 1.09	324 26 11.10	25.760	− 41.0	28.0	11 22	.....	.. ..	....
26	υ Leonis	9	31 57.29	− 0.04	+ 1.10	320 44 10.92	28.658	− 46.9	28.2	11 31	.....	.. ..	....
	April 19, Br.												
27	τ Leonis	9	22 55.54	− 0.05	+ 0.80	324 26 9.70	25.874	− 41.3	29.5	11 22	.....	.. ..	....
28	υ Leonis	9	31 57.57	− 0.06	+ 0.84	320 44 11.52	28.684	− 47.2	29.2	11 31	.....	.. ..	....
29	β Leonis	9	44 5.31	− 0.02	+ 0.85	336 8	..... .	....	....	11 44	.....	.. ..	....
30	Moon I, N.......	9	50 24.18	− 0.07	+ **0.81**	318 14 12.48	29.939	− 51.5	**29.4**	11 50 24.92	+62.97	− 2 46 43.2	....
31	ο Virginis..........	9	.. ..	....	.....	330 18 10.80	27.484	− 32.9	30.5	12 0	.....	.. ..	....
32	γ Corvi............	9	10 48.04	− 0.10	+ 0.75	304 2 12.88	27.998	−1 25.4	28.5	12 10	.....	.. ..	....
	April 20, Hd.												
33	1 H. Draconis	9	23 11.31	+ 1.21	[+ 1.07]	42 46	......	....	....	9 23	.....	.. ..	....
34	α Leonis	9	3 10.52	+ 0.02	[+ 0.81]	333 28	......	....	....	10 3	.....	.. ..	....
	April 20, L.												
35	η Virginis.........	9	14 55.57	− 0.06	+ 0.62	320 54 14.75	27.801	− 46.8	28.9	12 14	.....	.. ..	....
36	δ² Corvi	9	24 49.90	− 0.11	+ 0.59	305 4 12.28	27.178	−1 22.0	26.8	12 24	.....	.. ..	....
37	Moon I, N.......	9	39 24.21	− 0.08	+ **0.60**	314 4 12.58	27.233	− 59.6	**27.5**	12 39 24.73	+62.80	− 6 58 5.9	....
38	ε Virginis.........	9	57 19.91	− 0.03	+ 0.62	332 30 12.52	28.342	− 30.0	26.9	12 57	.....	.. ..	....
39	θ Virginis.........	9	4 54.76	− 0.08	+ 0.58	316 0 13.85	28.944	− 55.7	27.4	13 4	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in	°	°
15 22 44	29.870	45.8	47.2
23 0	29.872	47.0	48.8
0 8	29.872	52.0	52.6
0 50	29.860	53.9	54.0
16 1 37	29.850	55.5	55.0
2 57	29.820	58.1	57.6
3 42	......	....	57.8
3 48	29.804	59.0	58.2
4 30	29.784	60.1	59.1
17 8 47	29.688	56.2	54.4
9 55	......	....	54.1
10 10	29.690	55.1	53.2
10 40	29.690	54.4	52.4
18 10 28	29.748	55.7	54.0
11 6	29.744	54.6	52.6
11 32	29.743	53.8	52.0
19 11 23	29.780	52.1	50.1
11 50	......	....	49.8
12 11	29.782	51.0	49.1
20 12 15	29.856	54.1	52.0
12 39	......	....	51.2
13 5	29.860	53.2	50.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

8. Bisections at I, II, III.
9. Bisections at V, VI, VII.
10, 11. Bisections at VI, VII.
17, 24, 37. Bisections at II, III, IV, V, VI.
30. Bisections at II, III, IV, VI.
32. Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 10.2	− 13.9	...	− 3.7
7	+ 4.0	....	− 0.1	+ 3.9
8	+ 4.2	−15 58.3	...	−15 54.1
9	+ 4.3	+15 58.3	...	+16 2.6
17	+30 42.0	−15 30.0	...	+15 12.0
24	+33 54.1	−15 20.9	...	+18 33.2
30	+36 52.8	−15 12.6	...	+21 40.2
37	+39 30.2	−15 5.2	...	+24 25.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	April 21, Hd.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	I H. Draconis	9	23 12.08	+ 0.78	[+ 0.59]	42 46	......	....	....	9 23	.....	.. ..	....
2	α Leonis	9	3 10.69	+ 0.04	[+ 0.57]	333 28	......	....	....	10 3	.....	.. ..	....
	April 22, Hd.												
3	I H. Draconis	8	23 12.44	+ 0.54	[+ 0.34]	42 46	......	....	....	9 23	.....	.. ..	....
4	α Leonis	9	3 11.02	0.00	[+ 0.26]	333 28	......	....	....	10 3	.....	.. ..	....
	April 22, Br.												
5	η Bootis	9	50 3.69	0.00	+ 0.01	339 54 11.68	28.468	— 20.2	26.4	13 50	.....	.. ..	....
6	π Hydræ	9	0 50.59	— 0.03	+ 0.04	294 50 15.48	27.608	—1 58.7	25.2	14 0	.....	.. ..	....
7	Moon II, S	9	20 8.90	— 0.02	+ **0.03**	306 26 15.05	26.699	—1 14.8	**25.6**	14 20 8.91	—63.39	—14 36 31.9	....
8	ρ Bootis	9	27 38.89	+ 0.01	+ 0.03	351 50 10.10	25.485	— 7.9	25.2	14 27	.....	.. ..	....
	April 23, Hd.												
9	I H. Draconis	7	23 12.42	+ 0.97	[— 0.21]	42 46	......	....	....	9 23	.....	.. ..	....
10	α Leonis..........	9	3 11.38	— 0.06	[— 0.05]	333 28	......	....	....	10 3	.....	.. ..	....
11	θ Virginis	9	4 55.64	— 0.19	[— 0.19]	316 0	......	....	....	13 4	.....	.. ..	....
12	α Ursæ Minoris S. P.	9	23 8.33	— 9.67	[+ 0.73]	52 12	......	....	....	1 22	.....	.. ..	....
	April 23, L.												
13	α² Libræ..........	9	45 30.92	— 0.27	— 0.30	305 24 11.95	27.656	—1 19.4	26.6	14 45	.....	.. ..	....
14	γ Scorpii	9	58 23.81	— 0.31	— 0.28	296 8 7.98	29.650	—1 54.7	26.4	14 58	.....	.. ..	....
15	Moon II, S	9	10 25.43	— 0.29	— **0.28**	303 46 9.32	29.834	—1 24.5	**27.0**	15 10 24.86	—63.90	—17 15 19.4	....
16	α Serpentis........	9	39 29.47	— 0.19	— 0.24	327 46 16.02	26.312	— 35.8	28.1	15 39	.....	.. ..	....
17	ε Serpentis........	9	45 58.91	— 0.19	— 0.28	325 48 15.35	27.101	— 38.6	26.7	15 45	.....	.. ..	....
	April 23, Br.												
18	ε Pegasi...........	8	39 23.96	— 0.14	— 0.39	330 26 4.90	30.022	— 32.9	25.6	21 39	.....	.. ..	....
19	π² Pegasi....... ...	9	5 39.26	+ 0.01	— 0.29	353 42 4.55	29.431	— 6.3	22.2	22 5	.....	.. ..	....
20	ζ Pegasi...........	9	36 35.77	— 0.13	— 0.36	331 20 3.25	29.264	— 31.6	25.1	22 36	.....	.. ..	....
21	α Pegasi...........	9	59 53.94	— 0.11	— 0.38	335 42 6.18	27.822	— 26.0	23.9	22 59	.....	.. ..	....
22	Venus II, N	9	13 12.08	— 0.22	— **0.35**	316 0 7.68	28.227	— 55.7	**24.0**	23 13 11.51	— 0.85	— 5 1 35.1	....
23	Mercury C, C	8	47 49.23	— 0.12	— **0.34**	331 6 5.58	26.959	— 31.5	**23.4**	1 47 48.77	0.00	+10 4 11.4	....
	April 24, Br.												
24	Sun I, S	9	4 15.91	— 0.10	— **0.34**	333 28 5.92	28.145	— 28.5	**23.3**	2 4 15.47	+65.57	+12 26 48.9	....
25	Sun II, N.........	8	6 27.04	— 0.10	— **0.34**	334 0 2.70	27.972	— 27.8	**23.3**	2 6 26.60	—65.56	+12 58 41.0	....
26	η Tauri	9	41 40.39	— 0.03	— 0.39	344 50 7.55	26.038	— 15.3	22.5	3 41	.....	.. ..	....
27	ε Persei	9	51 17.34	+ 0.07	— 0.26	0 44 7.02	28.775	+ 0.8	24.5	3 51	.....	.. ..	....
28	α Tauri............	9	30 18.79	— 0.07	— 0.36	337 20 7.42	27.528	— 23.6	22.6	4 30	.....	.. ..	....
29	ι Aurigæ..........	9	50 37.68	+ 0.02	— 0.32	354 2 4.08	26.956	— 5.9	22.0	4 50	.....	.. ..	....
30	β Tauri............	9	20 6.93	0.00	— 0.31	349 32 4.30	28.781	— 10.3	22.0	5 20	.....	.. ..	....
	April 24, Hd.												
31	I H. Draconis	9	23 11.69	+ 1.41	[— 0.06]	42 46	... ..	....	....	9 23	.....	.. ..	....
32	α Leonis	9	3 11.64	— 0.07	[— 0.31]	333 28	......	....	....	10 3	.....	.. ..	....
33	θ Virginis..........	9	4 55.81	— 0.14	[— 0.41]	316 0	......	....	....	13 4	.....	.. ..	....
34	α Ursæ Minoris S. P.	9	23 11.68	—10.62	[— 1.24]	52 12	......	....	....	1 22	.....	.. ..	....
	April 24, Br.												
35	α Serpentis	9	39 29.63	— 0.10	— 0.48	327 46 5.02	26.688	— 36.5	27.0	15 39	.....	.. ..	....
36	ε Serpentis........	9	45 59.02	— 0.11	— 0.46	325 48 7.85	27.389	— 39.4	26.5	15 45	.....	.. ..	....
37	δ Scorpii	9	54 36.04	— 0.20	— 0.50	298 42 13.90	27.630	—1 45.5	25.4	15 54	.....	.. ..	....
38	Moon II, S	9	1 23.88	— 0.19	— **0.49**	301 54 13.02	29.207	—1 32.9	**26.3**	16 1 23.20	—64.38	—19 7 41.2	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
22 13 50	29.784	73.6	71.9
14 20	......	....	71.0
14 28	29.774	72.6	....
23 14 46	29.868	64.8	61.2
14 58	..... .	....	60.9
15 10	......	....	60.2
15 46	29.874	63.0	59.0
21 39	30.006	53.2	51.0
22 6	......	....	51.2
22 37	30.020	54.0	52.6
23 0	30.026	55.4	54.0
23 13	30.028	56.6	54.2
1 48	30.026	61.9	59.8
24 2 7	30.024	62.9	59.9
3 42	30.012	65.3	62.8
4 30	30.006	67.1	64.3
5 20	29.990	68.1	66.1
15 39	30.018	54.5	51.8
15 46	......	....	52.0
16 1	30.020	54.1	51.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 22.	Bisections at II, VI, VII.
7, 15, 38.	Bisections at II, III, IV, V, VI.
21.	Bisections at I, II, VI.
24.	Bisections at I, II, III.
25.	Bisections at V, VI, VII.
27	Bisections at I, II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+43 41.7	+14 53.3	...	+58 35.0
15	+44 56.1	+14 49.0	...	+59 45.1
22	+ 8.9	— 12.6	...	— 3.7
23	+ 3.1	....	0.0	+ 3.1
24	+ 3.9	+15 56.0	...	+15 59.9
25	+ 3.8	—15 56.0	...	—15 52.2
38	+45 45.5	+14 46.3	...	+60 31.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Ophiuchi	9	9 15.92	0.14	— 0.53	317 36 9.90	25.995	— 52.9	26.4	16 9	.....	.. ..	....
2	η Ophiuchi	9	4 48.86	— 0.18	— 0.54	305 26 9.52	27.885	—1 21.5	27.0	17 4	.....	.. ..	....
3	α^1 Herculis	9	10 13.58	- 0.07	— 0.48	335 32 6.62	26.476	— 26.5	25.1	17 10	.....	.. ..	....
4	θ Ophiuchi	9	16 3.08	- 0.21	- 0.59	296 8 10.68	29.436	—1 57.9	26.4	17 16	.....	.. ..	....
5	Uranus C, C	9	20 30.62	— 0.21	— **0.53**	297 50 10.00	27.765	—1 49.7	**26.3**	17 20 29.88	.....	—23 12 42.0	....
6	α Ophiuchi	9	30 25.92	— 0.08	— 0.48	333 38 8.28	30.295	— 28.8	26.9	17 30	.....	.. ..	....
	April 26, Hd.												
7	I H. Draconis	9	23 12.74	+ 1.24	[— 1.22]	42 46	......	....	....	9 23	.....	.. ..	....
8	α Leonis	9	3 12.28	— 0.04	[— 1.01]	333 28	......	....	....	10 3	.....	.. ..	....
	April 26, L.												
9	η Ophiuchi	9	4 49.79	— 0.28	— 1.33	305 26 13.90	27.560	—1 19.4	24.2	17 4	.....	.. ..	....
10	θ Ophiuchi	9	16 3.97	— 0.33	- 1.30	296 8 10.02	29.280	—1 54.7	24.6	17 16	.....	.. ..	....
11	Uranus C, C	9	20 18.90	- 0.32	— **1.32**	297 50 11.90	27.879	—1 46.8	**24.8**	17 20 17.26	.....	—23 12 32.4	....
12	Moon II, N	9	44 41.29	— 0.31	- **1.32**	301 18 12.48	26.002	—1 33.1	**24.8**	17 44 39.66	—64.83	—19 45 11.8	....
13	γ^2 Sagittarii	9	59 35.26	— 0.36	— 1.36	290 38 0.22	28.034	—2 29.6	24.6	17 59	.....	.. ..	....
14	μ Sagittarii	9	7 58.34	- 0.31	— 1.30	299 58 11.95	26.731	—1 38.4	25.6	18 7	.....	.. ..	....
	April 27, Hd.												
15	I H. Draconis	9	23 12.36	+ 1.38	[— 1.12]	42 46	......	....	....	9 23	.....	.. ..	....
16	α Leonis	9	3 12.69	— 0.17	[- 1.30]	333 28	......	....	....	10 3	.....	.. ..	....
17	θ Virginis	9	4 56.86	- 0.19	[— 1.41]	316 0	......	....	....	13 4	.....	.. ..	....
18	α Ursæ Minoris S. P.	9	23 12.61	— 8.88	[— 2.65]	52 12	......	....	....	1 23	.....	.. ..	....
	April 27, L.												
19	η Ophiuchi	9	4 50.17	— 0.30	- 1.67	305 26 13.45	27.698	—1 20.8	26.3	17 4	.....	.. ..	....
20	α^1 Herculis	9	10 14.89	- 0.18	— 1.61	335 32 7.05	26.470	— 26.3	25.2	17 10	.....	.. ..	....
21	θ Ophiuchi	9	16 4.37	0.34	— 1.67	296 8 6.90	29.572	—1 57.3	27.2	17 16	.....	.. ..	....
22	Uranus C, C	9	20 12.83	— 0.33	— **1.63**	297 50 9.78	28.355	—1 49.3	**26.4**	17 20 10.87	.....	—23 12 25.1	....
23	α Ophiuchi	9	30 27.20	- 0.19	— 1.58	333 40 9.00	26.076	— 28.8	26.9	17 30	.....	.. ..	....
24	μ Sagittarii	9	7 58.71	— 0.32	— 1.63	299 58 15.20	26.806	—1 40.8	28.5	18 7	.....	.. ..	....
25	λ Sagittarii	9	21 59.92	0.34	— 1.60	295 34 9.48	28.820	—2 1.2	27.0	18 21	.....	.. ..	....
26	I Aquilæ	9	29 56.63	— 0.27	— 1.61	312 44 10.98	26.115	—1 3.1	26.0	18 29	.....	.. ..	....
27	Moon II, N	9	36 23.99	— 0.32	— **1.63**	302 6 13.45	26.700	—1 32.8	**27.0**	18 36 22.04	—64.77	—18 56 52.9	....
28	σ Sagittarii	9	49 15.80	— 0.34	— 1.69	294 38 9.15	27.908	—2 6.7	26.4	18 49	.....	.. ..	....
	April 29, S.												
29	τ Aquilæ	9	59 24.96	— 0.17	— 1.85	328 2 4.65	26.991	— 35.3	23.1	19 59	.....	.. ..	....
30	α^2 Capricorni	9	12 41.01	— 0.24	— 1.89	308 10 9.60	30.445	—1 11.7	23.8	20 12	.....	.. ..	....
31	Moon II, N	9	18 57.09	— 0.26	— **1.88**	306 18 5.75	27.871	—1 16.7	**24.0**	20 18 54.95	—64.47	—14 44 8.1	....
32	ε Delphini	9	28 35.51	— 0.15	— 1.88	332 0 8.48	26.965	— 30.0	25.3	20 28	.....	.. ..	....
33	α Delphini	9	35 8.74	— 0.13	— 1.88	336 36 6.15	26.294	— 24.4	23.9	20 35	.....	.. ..	....
	April 29, L.												
34	α Pegasi	9	59 55.84	— 0.13	— 2.11	335 42 16.20	27.427	— 25.2	23.2	22 59	.....	.. ..	....
35	Venus II, N	9	35 51.61	— 0.21	— **2.06**	317 48 19.95	27.669	— 50.4	**24.6**	23 35 49.34	— 0.79	— 3 13 34.0	....
36	α Andromedæ	9	3 21.99	— 0.06	— 2.01	349 34	......	....	....	0 3	.....	.. ..	....
37	γ Pegasi	9	8 14.14	— 0.13	— 2.06	335 40 17.42	26.690	— 25.1	25.2	0 8	.....	.. ..	....
38	β Ceti	9	38 42.84	— 0.28	— 2.13	302 30 19.18	29.415	—1 26.6	25.5	0 38	.....	.. ..	....
39	β Andromedæ	9	4 17.14	- 0.03	— 2.00	356 6 12.15	29.666	— 3.7	24.7	1 4	.....	.. ..	....
	April 30, Hd.												
40	I H. Draconis	9	23 13.24	+ 1.19	[— 2.22]	42 46	......	....	....	9 23	.....	.. ..	....
41	α Leonis	9	3 13.29	— 0.12	[— 1.99]	333 28	......	....	....	10 3	.....	.. ..	....
42	θ Virginis	9	4 57.57	— 0.18	[— 2.13]	316 0	......	....	....	13 4	.....	.. ..	....
43	α Ursæ Minoris S. P.	9	23 12.22	— 9.41	[— 0.75]	52 12	......	....	....	1 23	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
24	16	9	30.018	54.0	51.6
	17	5	30.020	53.0	50.1
	17	21	......	...	50.0
	17	30	30.026	52.5	50.1
26	17	5	29.634	59.0	57.2
	17	20	......	....	56.9
	17	45	......	....	56.0
	18	8	29.658	58.0	55.0
27	17	5	29.976	53.1	53.9
	17	30	29.982	53.2	49.4
	18	8	......	....	48.0
	18	49	30.000	53.0	47.9
29	19	59	29.830	62.0	61.2
	20	19	29.840	62.0	62.0
	20	35	29.845	62.4	63.0
	23	0	29.888	67.8	69.0
	23	36	......	....	70.0
	0	8	29.908	71.8	71.1
	0	39	......	....	72.7
	1	4	29.912	73.8	73.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

12, 27, 31.	Bisections at II, III, IV, V, VI.
34.	Bisections at II, VI, VII.
37.	Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 0.4	....	...	+ 0.4
11	+ 0.4	....	...	+ 0.4
12	+46 4.5	—14 46.5	...	+31 18.0
22	+ 0.4	....	...	+ 0.4
27	+45 51.6	—14 50.0	...	+31 1.6
31	+44 21.0	—15 5.3	...	+29 15.7
35	+ 8.1	— 11.8	...	— 3.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	April 30, L.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Delphini	9	35 9.21	— 0.15	— 2.30	336 36 11.72	26.130	— 24.8	24.3	20 35	.....	.. ..	....
2	μ Aquarii	9	47 26.36	— 0.27	— 2.37	311 40 16.40	29.664	—1 4.1	25.5	20 47	.....	.. ..	....
3	Moon II, N	9	9 56.09	— 0.30	— **2.30**	309 34 15.85	27.578	—1 8.8	**25.4**	21 9 53.49	—64.48	—11 27 59.9	....
4	ι Pegasi	9	17 36.99	0.13	— 2.24	340 24 17.60	28.170	— 20.2	26.0	21 17	.....	.. ..	....
5	β Aquarii	9	26 27.94	— 0.26	— 2.30	315 2 13.52	27.224	— 56.8	25.6	21 26	.....	.. ..	....
	April 30, Br.												
6	γ Aquarii	8	16 39.32	— 0.27	— 2.29	319 8 19.00	29.427	— 49.1	26.6	22 16	.....	.. ..	....
7	ζ Pegasi	9	36 37.87	— 0.20	— 2.21	331 20 11.68	29.001	— 31.0	26.0	22 36	.....	.. ..	....
8	λ Pegasi	9	41 51.98	— 0.12	— 2.28	344 4 10.18	28.015	— 16.2	25.8	22 41	.....	.. ..	....
9	α Pegasi	9	59 56.11	— 0.18	— 2.31	335 42 10.70	27.680	— 25.6	24.3	22 59	.....	.. ..	....
10	β Ceti	9	38 43.11	— 0.36	— 2.30	302 30 14.28	29.646	—1 28.1	25.4	0 38	.....	.. ..	....
	May 1, Br.												
11	Sun I, N	9	30 45.86	— 0.16	— **2.29**	336 14 14.80	26.368	— 24.6	**23.7**	2 30 43.41	+66.07	+15 12 10.6	....
12	Sun II, S	8	32 58.01	— 0.16	— **2.29**	335 42 10.82	26.887	— 25.2	**23.7**	2 32 55.56	—66.08	+14 40 20.4	....
13	Mercury C, C	9	44 14.28	— 0.16	— **2.29**	337 8 10.68	26.770	— 23.5	**23.6**	2 44 11.83	0.00	+16 6 18.9	....
14	α Tauri	9	30 20.77	0.14	— 2.30	337 20 7.88	27.500	— 23.2	22.7	4 30	.....	.. ..	....
15	ι Aurigæ	9	50 39.67	— 0.04	2.30	354 2 6.52	26.841	— 5.8	21.8	4 50	.....	.. ..	....
16	β Eridani	8	3 4.82	— 0.24	— 2.29	315 48	......	....	....	5 3	.....	.. ..	....
17	β Orionis	9	9 52.53	0.26	— 2.26	312 42 6.15	29.405	— 59.9	22.4	5 9	.....	.. ..	....
18	β Tauri	9	20 8.93	— 0.07	— 2.31	349 32 7.45	28.675	— 10.2	22.7	5 20	.....	.. ..	....
	May 1, Hd.												
19	1 H. Draconis	9	23 12.98	+ 0.99	[— 1.90]	42 46	......	....	....	9 23	.....	.. ..	....
20	α Leonis	9	3 13.54	— 0.13	[2.24]	333 28	......	....	....	10 3	.....	.. ..	....
21	θ Virginis	9	4 57.84	— 0.18	[— 2.40]	316 0	......	....	....	13 4	.....	.. ..	....
22	α Ursæ Minoris S. P.	8	23 13.32	— 8.16	[— 2.79]	52 12	......	....	....	1 23	.....	.. ..	....
	May 1, Br.												
23	ε Cygni	9	42 18.84	— 0.11	— 2.45	354 38 8.25	25.858	— 5.4	24.7	20 42	.....	.. ..	....
24	ζ Cygni	9	8 49.88	— 0.13	— 2.45	350 50 13.55	28.638	9.3	26.0	21 8	.....	.. ..	....
25	ε Pegasi	9	39 26.41	— 0.24	— 2.51	330 26 7.88	30.016	— 32.6	27.8	21 39	.....	.. ..	....
26	Moon II	9	1 9.47	— 0.33	— **2.50**	313 12	......	....	....	22 1 6.64	—64.78	.. ..	....
27	π² Pegasi	8	5 41.89	— 0.11	— 2.56	353 42 6.05	29.465	— 6.3	24.4	22 5	.....	.. ..	....
28	ζ Pegasi	8	36 38.23	— 0.24	— 2.50	331 20	......	....	....	22 36	.....	.. ..	....
	May 1, L.												
29	α Pegasi	9	59 56.36	0.18	— 2.53	335 42 20.40	27.362	— 25.8	24.7	22 59	.....	.. ..	....
30	Venus II, N	9	43 32.56	— 0.27	— **2.51**	318 26 14.82	29.171	— 50.4	**25.9**	23 43 29.78	— 0.77	— 2 34 57.6	....
31	α Andromedæ	9	3 22.59	0.10	— 2.52	349 34 7.18	27.879	— 10.4	27.5	0 3	.....	.. ..	....
32	β Andromedæ	9	4 17.69	— 0.05	— 2.49	356 6 9.65	29.768	— 3.8	25.2	1 4	.....	.. ..	....
	May 2, L.												
33	Sun I, S	9	34 35.16	— 0.17	— **2.50**	336 0 1.08	27.517	— 24.9	**24.7**	2 34 32.49	+66.12	+14 58 28.3	....
34	Sun II, N	9	36 47.40	— 0.17	— **2.50**	336 32 4.75	26.933	— 24.3	**24.7**	2 36 44.73	—66.12	+15 30 15.5	....
35	α Tauri	9	30 21.00	— 0.17	— 2.51	337 20 6.68	27.579	— 23.1	23.8	4 30	.....	.. ..	....
36	ι Aurigæ	7	50 39.85	— 0.06	— 2.47	354 2 3.72	27.038	— 5.8	24.6	4 50	.....	.. ..	....
37	β Orionis	9	9 52.87	— 0.30	— 2.56	312 42 9.65	29.309	— 59.8	23.2	5 9	.....	.. ..	....
38	β Tauri	9	20 9.07	— 0.10	— 2.42	349 32 5.40	28.776	— 10.2	23.5	5 20	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
30 20 35	29.964	59.1	57.4
21 10	29.970	58.9	59.6
21 26	29.976	59.0	60.0
22 17	29.978	60.1	60.4
22 37	......	....	61.1
23 0	29.980	62.0	61.3
0 39	29.988	67.0	65.8
1 2 34	29.972	70.0	70.0
2 46	29.972	70.4	70.0
4 30	29.954	73.3	72.3
5 10	29.936	74.0	73.2
5 20	29.936	74.2	73.3
20 42	29.952	55.0	52.8
21 9	......	....	53.4
21 39	29.958	55.8	55.0
22 6	......	....	55.9
22 37	29.956	58.0	57.6
23 0	29.958	59.3	58.4
23 44	......	....	60.1
0 3	29.962	62.3	61.0
1 4	......	....	64.0
2 2 36	29.920	58.5	67.4
4 30	29.880	72.7	72.0
4 51	......	...	72.9
5 10	......	....	73.0
5 20	29.860	74.1	73.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3. Bisections at II, III, IV, V, VI.
6, 29. Bisections at II, VI, VII.
11, 33. Bisections at I, II, III.
12, 34. Bisections at V, VI, VII.
36. Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+42 57.0	—15 16.9	...	+27 40.1
11	+ 3.5	—15 55.1	...	—15 51.6
12	+ 3.6	+15 55.0	...	+15 58.6
13	+ 2.6	....	0.0	+ 2.6
30	+ 7.8	— 11.5	...	— 3.7
33	+ 3.5	+15 53.6	...	+15 57.1
34	+ 3.5	—15 53.6	...	—15 50.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	May 4, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Pegasi	9	59 57.12	— 0.19	— 3.20	335 42 6.30	27.835	— 25.4	24.1	22 59	.....	.. ..	....
2	Venus II, N	9	55 9.83	— 0.28	— **3.17**	319 26 6.40	29.388	— 47.7	**25.5**	23 55 6.38	— 0.75	— 1 34 56.8	....
3	β Ceti..........	9	38 44.09	- 0.37	— 3.20	302 30 11.70	29.770	—1 26.8	26.9	0 38	.....	.. ..	....
4	Moon II.........	6	42 37.93	— 0.24	— **3.17**	327 8	......	....	....	0 42 34.52	—68.20	.. ..	....
5	β Andromedæ	7	4 18.36	— 0.04	— 3.11	356 6 2.00	30.029	— 3.7	25.2	1 4	.....	.. ..	....
	May 5, Br.												
6	Sun I, S.........	9	46 5.99	— 0.15	— **3.15**	336 52 8.32	29.140	— 23.3	**24.7**	2 46 2.69	+66.41	+15 51 23.4	....
7	Sun II, N	9	48 18.79	— 0.14	— **3.15**	337 24 8.70	28.682	— 22.8	**24.7**	2 48 15.50	—66.40	+16 23 10.8	....
8	Mercury C, C....	9	18 8.57	— 0.12	— **3.15**	340 12 8.52	28.760	— 19.6	**24.5**	3 18 5.30	+ 0.01	+19 11 16.4	....
9	α Tauri	9	30 21.57	— 0.11	— 3.14	337 20 7.10	27.518	— 22.5	23.1	4 30	.....	.. ..	....
10	β Orionis.........	9	9 53.39	— 0.20	— 3.20	312 42 8.12	29.329	— 58.4	23.2	5 9	.....	.. ..	....
11	β Tauri	7	20 9.63	— 0.03	— 3.08	349 32 6.52	28.699	— 9.9	22.9	5 20	.....	.. ..	....
12	ε Orionis.........	9	31 18.27	— 0.16	— 3.18	319 46 6.30	26.972	— 45.6	25.7	5 31	.....	.. ..	....
13	α Orionis.........	9	49 55.86	— 0.12	— 3.10	328 24 6.95	29.048	— 33.2	24.9	5 49	.....	.. ..	....
	May 5, L.												
14	Venus II, N	9	59 4.02	— 0.33	— **3.37**	319 48 10.45	26.024	— 47.5	**25.6**	23 59 0.32	— 0.74	— 1 14 28.5	....
15	α Andromedæ	9	3 23.62	— 0.17	— 3.38	349 34 5.42	27.871	— 10.3	25.5	0 3	.....	.. ..	....
16	γ Pegasi..........	5	8 15.71	— 0.24	— 3.39	335 40	......	....	....	0 8	.....	.. ..	....
17	β Andromedæ	9	4 18.70	— 0.12	— 3.35	356 6 3.00	29.995	— 3.8	25.2	1 4	.....	.. ..	....
	May 6, L.												
18	Sun I, N	9	49 57.67	- 0.24	— **3.37**	337 42 4.22	26.865	— 22.8	**24.4**	2 49 54.06	+66.44	+16 40 15.2	....
19	Sun II, S........	9	52 10.56	— 0.24	— **3.37**	337 10 2.88	27.428	— 23.4	**24.4**	2 52 6.95	—66.45	+16 8 29.0	....
20	Mercury C........	..	.. ..	....	.....	340 54 10.18	28.115	— 19.2	**24.2**	3 26	.....	+19 53 0.4	....
21	α Tauri..........	9	30 21.94	— 0.24	— 3.38	337 20 7.92	27.522	— 23.0	23.5	4 30	.....	.. ..	....
22	ι Aurigæ..........	7	50 40.72	— 0.14	— 3.27	354 2 2.10	27.020	— 5.7	23.0	4 50	.....	.. ..	....
23	β Orionis.........	9	9 53.79	— 0.37	— 3.44	312 42 8.80	29.321	— 59.6	22.4	5 9	.....	.. ..	....
24	δ Orionis.........	9	27 4.16	- 0.32	— 3.37	320 40 8.02	25.978	— 45.0	25.1	5 27	.....	.. ..	....
	May 7, Br.												
25	ω Piscium	9	54 21.66	— 0.32	— 3.80	327 20 10.92	29.280	— 36.3	23.2	23 54	.....	.. ..	....
26	α Andromedæ	9	3 24.04	— 0.17	— 3.75	349 34 6.58	27.751	— 10.4	23.3	0 3	.....	.. ..	....
27	Venus II, N	9	6 54.39	— 0.36	— **3.76**	320 28 8.65	29.680	— 46.8	**23.2**	0 6 50.27	— 0.72	— 0 32 43.0	....
28	β Ceti	9	38 44.84	— 0.48	— 3.78	302 30 10.52	29.781	—1 28.7	23.3	0 38	.....	.. ..	....
29	μ Andromedæ	9	51 23.27	— 0.09	— 3.73	358 58 5.42	29.786	— 0.9	24.4	0 51	.....	.. ..	....
30	β Andromedæ	9	4 19.13	— 0.12	— 3.73	356 6 4.88	29.875	— 3.8	23.7	1 4	.....	.. ..	....
	May 8, Br.												
31	Sun I, N	9	57 42.24	— 0.27	— **3.71**	338 14 7.52	29.595	— 22.4	**23.2**	2 57 38.26	+66.58	+17 13 37.9	....
32	Sun II, S........	9	59 55.41	— 0.27	— **3.71**	337 42 5.12	30.278	— 23.0	**23.2**	2 59 51.43	—66.59	+16 41 54.0	....
33	Mercury I, C	9	43 35.53	— 0.24	— **3.70**	342 12 8.20	25.654	— 18.0	**23.2**	3 43 31.59	+ 0.19	+21 9 50.4	....
34	α Tauri	9	30 22.28	— 0.26	— 3.71	337 20 7.08	27.520	— 23.3	22.3	4 30	.....	.. ..	....
35	ι Aurigæ.........	9	50 41.16	— 0.14	— 3.72	354 2 6.98	26.832	— 5.8	22.5	4 50	.....	.. ..	....
36	β Orionis.........	9	9 54.01	— 0.42	— 3.62	312 42 11.18	29.256	—1 0.1	22.2	5 9	.....	.. ..	....
37	β Tauri	9	20 10.36	— 0.17	— 3.68	349 32 6.58	28.701	— 10.2	22.9	5 20	.....	.. ..	....
38	δ Orionis.........	9	27 4.47	— 0.36	— 3.66	320 40 7.18	26.004	— 45.6	24.3	5 27	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
4 23 0	29.836	60.8	64.1
23 55	29.840	65.0	67.9
0 43	......	....	70.9
1 4	29.848	71.8	72.1
5 2 48	29.832	77.0	77.8
3 18	29.828	78.9	79.8
4 30	29.818	83.0	84.1
5 10	29.810	84.8	84.7
5 20	......	....	85.0
5 31	......	....	85.0
5 50	29.806	85.0	84.2
23 59	29.972	68.1	66.4
1 4	29.978	71.8	68.4
6 2 53	29.948	74.0	72.2
3 27	......	....	72.8
4 30	29.924	76.8	74.8
4 51	......	....	75.0
5 10	......	....	75.2
5 27	29.884	77.2	75.9
7 23 54	29.846	61.0	59.7
0 7	......	....	59.7
0 39	29.858	62.8	60.0
1 4	29.868	64.0	61.0
8 3 0	29.834	66.4	65.0
3 44	29.812	67.5	66.1
4 30	......	....	67.6
4 51	29.816	69.9	68.2
5 10	29.814	70.9	69.2
5 20	......	....	69.1
5 27	29.808	71.1	69.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3.	Bisections at VI, VII.
6, 18, 31.	Bisections at I, II, III.
7, 19, 32.	Bisections at V, VI, VII.
12.	Bisections at I, II, VII.
22.	Bisections at I, VI, VII.
27.	Bisections at II, III, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 7.4	— 11.2	...	— 3.8
6	+ 3.4	+15 53.6	...	+15 57.0
7	+ 3.3	—15 53.7	...	—15 50.4
8	+ 2.3	....	+ 0.1	+ 2.4
14	+ 7.2	— 11.0	...	— 3.8
18	+ 3.3	—15 53.1	...	—15 49.8
19	+ 3.4	+15 53.0	...	+15 56.4
20	+ 2.3	....	+ 0.1	+ 2.4
27	+ 7.0	— 10.8	...	— 3.8
31	+ 3.2	—15 51.9	...	—15 48.7
32	+ 3.3	+15 51.9	...	+15 55.2
33	+ 2.2	....	+ 0.1	+ 2.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	May 8, U.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	θ Virginis........	9	4 59.38	− 0.39	[− 3.74]	316 0	......	....	....	13 4	.....	.. ..	....
2	α Ursæ Minoris S.P.	9	23 22.44	−12.70	[− 3.66]	52 12	......	....	....	1 23	.....	.. ..	....
3	η Bootis...........	9	50 7.71	− 0.27	[− 3.71]	339 54	......	....	....	13 50	.....	.. ..	....
	May 9, U.												
4	α Canum Venat....	9	51 33.09	− 0.16	[− 3.84]	359 52	......	....	....	12 51	.....	.. ..	....
5	20 Canum Venat....	9	13 15.39	− 0.14	[− 3.79]	2 8	......	....	....	13 13	.....	.. ..	....
6	α Ursæ Minoris S.P.	9	23 25.40	−14.37	[− 4.28]	52 12	......	....	....	1 23	.....	.. ..	....
	May 9, S.												
7	α Aquarii.........	9	0 50.78	− 0.39	− 3.92	320 14 14.32	27.749	− 48.6	27.0	22 0	.....	.. ..	....
8	θ Aquarii.........	9	11 45.51	− 0.44	− 3.96	312 46 3.28	27.616	−1 3.2	26.1	22 11	.....	.. ..	....
9	η Aquarii.........	9	30 24.86	− 0.39	− 3.97	320 23 57.30	29.150	− 48.3	26.5	22 30	.....	.. ..	....
10	ζ Pegasi...........	9	36 39.94	− 0.31	− 3.93	331 20 5.52	29.294	− 31.9	26.2	22 36	.....	.. ..	....
11	Venus II, N......	9	14 47.22	− 0.38	− **3.96**	321 12 0.88	26.901	− 46.9	**25.8**	0 14 42.88	− 0.71	+ 0 9 47.3	....
	May 10, S.												
12	Sun I, S.........	9	5 28.93	− 0.27	− **3.97**	338 16 3.65	26.722	− 23.0	**24.9**	3 5 24.69	+66.78	+17 14 9.9	....
13	Sun II, N	7	7 42.49	− 0.27	− **3.97**	338 48 3.08	26.160	− 22.3	**24.9**	3 7 38.25	−66.78	+17 45 53.6	....
14	Mercury I, C	9	0 15.27	− 0.23	− **3.98**	343 18 0.70	28.620	− 17.2	**24.6**	4 0 11.06	+ 0.20	+22 17 6.8	....
15	α Tauri............	9	30 22.62	− 0.28	− 4.03	337 19 57.05	27.928	− 23.8	23.4	4 30	.....	.. ..	....
16	Moon I..........	9	58 2.79	− 0.27	− **3.99**	339 48	......	....	....	5 57 58.53	+73.14	.. ..	....
17	μ Geminorum	9	17 7.00	− 0.23	− 4.00	343 36 8.15	25.332	− 16.7	23.2	6 17	.....	.. ..	....
18	β Geminorum	9	39 24.49	− 0.19	− 3.93	349 16 7.42	29.324	− 10.7	25.3	7 39	.....	.. ..	....
	May 11, U.												
19	ε Virginis.........	9	57 25.41	− 0.32	[− 4.64]	332 30	......	....	....	12 57	.....	.. ..	....
20	20 Canum Venat....	9	13 16.13	− 0.17	[− 4.52]	2 8	......	....	....	13 13	.....	.. ..	....
21	α Ursæ Minoris S.P.	9	23 25.41	−12.80	[− 4.59]	52 12	......	....	....	1 23	.....	.. ..	....
	May 12, U.												
22	α Canum Venat....	9	51 34.16	− 0.12	[− 4.98]	359 52	......	....	....	12 51	.....	.. ..	....
23	20 Canum Venat....	9	13 16.42	− 0.14	[− 4.85]	2 8	......	....	....	13 13	.....	.. ..	....
24	α Ursæ Minoris S.P.	8	23 24.46	−10.98	[− 4.90]	52 12	......	....	....	1 23	.....	.. ..	....
	May 13, S.												
25	λ Aquarii..........	9	47 37.19	− 0.35	− 5.47	312 56 2.70	27.953	−1 1.9	23.8	22 47	.....	.. ..	....
26	α Pegasi...........	9	59 59.57	− 0.23	− 5.37	335 42 1.15	28.006	− 25.9	22.4	22 59	.....	.. ..	....
27	α Andromedæ	9	3 25.81	− 0.14	− 5.40	349 34 4.12	27.878	− 10.5	24.0	0 3	.....	.. ..	....
28	Venus II, N......	8	30 42.60	− 0.30	− **5.39**	322 38 3.85	29.552	− 43.7	**23.5**	0 30 36.91	− 0.68	+ 1 37 11.4	....
29	β Andromedæ	9	4 20.82	− 0.10	− 5.30	356 5 59.95	30.098	− 3.8	25.3	1 4	.....	.. ..	....
	May 14, S.												
30	Sun I, N.........	8	21 10.05	− 0.21	− **5.40**	339 48 6.30	28.032	− 20.8	**23.5**	3 21 4.44	+67.04	+18 46 53.4	....
31	Sun II, S	9	23 24.14	− 0.21	− **5.40**	339 16 5.05	28.778	− 21.4	**23.5**	3 23 18.53	−67.05	+18 15 12.5	....
32	Mercury I, C.....	9	32 10.54	− 0.17	− **5.41**	345 2 1.90	28.292	− 15.0	**23.5**	4 32 4.96	+ 0.22	+24 1 2.0	....
33	β Orionis..........	9	9 55.77	− 0.35	− 5.47	312 42 6.88	29.494	−1 0.8	23.2	5 9	.....	.. ..	....
34	β Tauri............	8	20 12.07	− 0.14	− 5.44	349 32 4.10	28.755	− 10.3	22.1	5 20	.....	.. ..	....
35	α Orionis..........	9	49 58.17	− 0.27	− 5.32	328 24 5.90	29.154	− 34.5	25.2	5 49	.....	.. ..	....
36	γ Geminorum......	9	32 9.51	− 0.22	− 5.41	337 30 5.30	27.952	− 23.2	21.9	6 32	.....	.. ..	....
	May 14, Br.												
37	α Andromedæ	9	3 26.22	− 0.15	− 5.77	349 34 3.62	27.932	− 10.5	25.1	0 3	.....	.. ..	....
38	γ Pegasi...........	9	8 18.32	− 0.23	− 5.79	335 40 4.18	27.210	− 25.9	24.8	0 8	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
9 22 1	30.008	48.0	47.5
22 30	......	....	47.5
22 37	30.006	48.2	47.5
0 15	30.024	51.0	48.3
10 3 8	29.996	57.2	54.7
4 0	29.984	59.2	57.0
4 30	29.973	60.3	58.3
6 17	29.948	63.0	60.1
7 39	29.922	65.0	62.8
13 22 48	29.886	53.6	52.5
23 0	......	....	53.6
0 3	29.886	55.7	55.0
0 31	29.889	57.0	55.7
1 4	29.890	58.4	57.0
14 3 24	29.868	62.8	61.9
4 32	29.854	65.0	64.3
5 10	29.845	65.9	64.0
5 20	......	....	64.9
5 50	29.835	67.2	65.4
6 32	29.826	68.0	65.4
0 1	29.944	55.9	55.2
0 8	......	....	55.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

12, 30. Bisections at I, II, III.
13, 31. Bisections at V, VI, VII.
17, 25. Bisections at II, VI, VII.
28. Bisections at I, II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
11	+ 6.8	− 10.6	...	− 3.8
12	+ 3.2	+15 51.8	...	+15 55.0
13	+ 3.1	−15 51.8	...	−15 48.7
14	+ 2.1	....	+ 0.1	+ 2.2
28	+ 6.3	− 10.2	...	− 3.9
30	+ 3.0	−15 50.4	...	−15 47.4
31	+ 3.1	+15 50.4	...	+15 53.5
32	+ 2.0	....	+ 0.2	+ 2.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Venus II, N	9	34 43.14	— 0.30	— **5.81**	323 0 8.32	29.839	— 43.1	**24.6**	0 34 37.03	— 0.68	+ 1 59 23.5	....
2	β Ceti	8	38 47.01	— 0.41	— 5.87	302 30 8.35	30.022	—1 29.4	25.6	0 38	.....	.. ..	....
3	β Andromedæ	9	4 21.34	— 0.10	— 5.80	356 6 3.22	29.980	— 3.8	25.3	1 4	.....	.. ..	....
4	α Arietis	8	1 45.52	— 0.18	— 5.83	344 0 5.10	30.125	— 16.3	24.9	2 1	.....	.. ..	....
	May 15, Br.												
5	Sun I, S.........	8	25 6.92	— 0.21	— **5.80**	339 30 5.48	29.707	— 21.1	**24.6**	3 25 0.91	+67.12	+18 29 38.9	....
6	Sun II, N	9	27 21.16	— 0.21	— **5.80**	340 2 3.80	29.115	— 20.5	**24.6**	3 27 15.15	—67.12	+19 1 20.7	....
7	α Tauri............	9	30 24.42	— 0.22	— 5.88	337 20 5.58	27.634	— 23.6	23.7	4 30	.....	.. ..	....
8	ι Aurigæ..........	9	50 43.17	— 0.12	— 5.74	354 2 2.58	27.004	— 5.9	23.6	4 50	.....	.. ..	....
9	β Orionis..........	9	9 56.06	— 0.35	— 5.76	312 42 9.30	29.450	—1 1.2	23.8	5 9	.....	.. ..	....
10	β Tauri............	9	20 12.41	— 0.15	— 5.77	349 32 3.72	28.824	— 10.4	23.6	5 20	.....	.. ..	....
11	δ Orionis..........	9	27 6.54	— 0.31	— 5.80	320 40 7.58	26.078	— 46.3	25.3	5 27	.....	.. ..	....
12	γ^1 Leonis	9	14 42.07	— 0.20	— 5.83	341 22 6.08	26.282	— 19.1	24.5	10 14	.....	.. ..	....
13	μ Hydræ	9	21 29.18	— 0.36	— 5.87	304 42 8.45	27.151	—1 21.8	25.4	10 21	.....	.. ..	....
14	ρ Leonis	9	27 47.09	— 0.25	— 5.84	330 50 5.00	27.580	— 31.7	26.3	10 27	.....	.. ..	....
15	Moon I, N.......	9	45 45.81	— 0.29	— **5.85**	323 58 7.52	29.735	— 41.4	**26.0**	10 45 39.67	+64.03	+ 2 57 20.0	....
16	p^3 Leonis	9	2 2.49	— 0.28	— 5.82	323 30 7.70	29.042	— 42.1	26.4	11 1	.....	.. ..	....
17	δ Leonis	9	9 1.93	— 0.20	— 5.82	342 4 7.20	29.261	— 18.4	26.6	11 8	.....	.. ..	....
18	δ Crateris	9	14 34.93	— 0.35	— 5.90	306 48 9.52	25.476	—1 16.1	26.6	11 14	.....	.. ..	....
	May 15, U.												
19	α Canum Venat....	9	51 35.01	— 0.14	[— 5.84]	359 52	......	....	....	12 51	.....	.. ..	....
20	20 Canum Venat....	9	13 17.30	— 0.16	[— 5.74]	2 8	......	....	....	13 13	.....	.. ..	....
21	α Ursæ Minoris S. P.	9	23 25.72	— 9.78	[— 5.76]	52 12	......	....	....	1 23	.....	.. ..	....
	May 15, R.												
22	κ Ophiuchi	9	53 10.58	— 0.26	— 5.77	330 34 19.12	25.466	— 32.8	27.9	16 53	.....	.. ..	....
23	η Ophiuchi	9	4 54.77	— 0.36	— 5.83	305 26 21.60	27.459	—1 21.5	26.3	17 4	.....	.. ..	....
24	α^1 Herculis.........	9	10 19.39	— 0.24	— 5.70	335 32 16.72	26.261	— 26.4	25.7	17 10	.....	.. ..	....
25	Uranus C, C	9	17 52.89	— 0.39	— **5.77**	297 52 22.68	28.122	—1 49.4	**26.6**	17 17 46.73	.....	— 23 10 19.1	....
26	α Ophiuchi	9	30 31.80	— 0.25	— 5.73	333 40 13.95	25.980	— 28.7	26.2	17 30	.....	.. ..	....
27	γ^2 Sagittarii	9	59 40.36	— 0.43	— 5.86	290 38 20.50	27.486	—2 32.9	26.1	17 59	.....	.. ..	....
28	μ Sagittarii	9	8 3.44	— 0.38	— 5.73	299 58 22.00	26.548	—1 40.5	27.6	18 7	.....	.. ..	....
	May 17, S.												
29	o Virginis	9	0 21.60	— 0.22	— 6.04	330 18 8.75	27.448	— 31.5	26.4	12 0	.....	.. ..	....
30	γ Corvi............	9	10 54.92	— 0.31	— 6.09	304 2 11.62	27.757	—1 21.7	25.0	12 10	.....	.. ..	....
31	Moon I, N.......	9	24 13.46	— 0.28	— **6.06**	315 22 1.02	26.827	— 54.6	**25.6**	12 24 7.12	+62.69	— 5 40 22.1	....
32	γ Virginis (*mean*)..	9	36 50.51	— 0.25	— 6.02	320 6 8.18	29.299	— 46.3	26.6	12 36	.....	.. ..	....
33	ε Virginis	9	57 26.70	— 0.21	— 6.07	332 30 3.25	28.654	— 28.9	24.6	12 57	.....	.. ..	....
	May 18, L.												
34	ε Virginis	9	57 27.23	— 0.23	— 6.59	332 30 9.72	28.480	— 29.0	26.0	12 57	.....	.. ..	....
35	θ Virginis	9	5 2.06	— 0.31	— 6.54	316 0 13.78	28.858	— 53.7	26.1	13 4	.....	.. ..	....
36	Moon I, N.......	9	12 48.38	— 0.34	— **6.57**	311 26 14.78	26.720	—1 3.1	**26.2**	13 12 41.47	+62.72	— 9 36 20.5	....
37	α Virginis	9	20 11.53	— 0.33	— 6.58	310 22 15.08	29.116	—1 5.4	25.7	13 20	.....	.. ..	....
38	ζ Virginis	9	29 51.52	— 0.28	— 6.58	320 56 12.90	27.154	— 45.2	27.2	13 29	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
14 0 39	29.954	57.6	57.4
1 4	29.970	60.1	57.9
2 2	29.980	62.7	60.2
15 3 28	29.980	63.2	62.8
4 30	29.978	64.2	63.7
4 51	......	....	63.4
5 10	29.968	64.9	63.4
5 20	......	....	64.1
5 27	29.966	65.0	64.0
10 12	29.970	64.2	62.1
10 28	29.970	63.1	61.0
10 46	29.970	62.0	60.1
11 2	......	....	59.9
11 15	29.970	61.0	59.0
16 45	29.989	52.2	50.6
17 1	......	....	50.2
17 16	......	....	50.2
17 24	29.984	51.8	50.2
17 56	29.981	51.6	50.0
18 17	29.979	51.3	50.0
17 12 0	29.707	72.0	70.2
12 24	29.712	71.5	69.5
12 57	29.712	70.0	68.1
18 12 57	29.750	70.1	67.0
13 13	......	....	67.0
13 30	29.760	69.6	67.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4.	Bisections at I, II.
5.	Bisections at I, II, III.
6.	Bisections at V, VI, VII.
11.	Bisections at I, II, VI.
15, 31, 36.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 6.2	— 10.1	...	— 3.9
5	+ 3.0	+15 50.9	...	+15 53.9
6	+ 2.9	—15 50.8	...	—15 47.9
15	+33 1.4	—15 26.4	...	+17 35.0
25	+ 0.4	....	...	+ 0.4
31	+38 39.3	—15 6.1	...	+23 33.2
36	+40 55.6	—14 58.5	...	+25 57.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	May 19, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ζ Virginis	9	29 51.74	— 0.26	— 6.82	320 56 7.95	27.291	— 45.1	26.2	13 29	.....	.. ..	....
2	*m* Virginis	9	36 38.07	— 0.29	— 6.86	312 50 11.20	25.870	— 59.9	24.7	13 36	.....	.. ..	....
3	η Bootis	9	50 10.69	— 0.18	— 6.80	339 54 7.22	28.751	— 20.3	25.5	13 50	.....	.. ..	....
4	Moon I, N	9	1 45.09	— 0.32	— **6.84**	307 56 9.42	30.475	—1 11.1	**25.3**	14 1 37.93	+63.06	—13 4 45.9	....
5	κ Virginis	9	7 50.19	— 0.30	— 6.85	311 12 11.70	29.090	—1 3.4	24.4	14 7	.....	.. ..	....
6	λ Virginis	9	13 58.60	— 0.31	— 6.87	308 6 11.30	29.086	—1 10.7	25.5	14 13	.....	.. ..	....
	May 19, L.												
7	β Andromedæ	9	4 22.69	— 0.10	— 7.02	356 6 9.82	29.735	— 3.7	25.1	1 4	.....	.. ..	....
8	β Arietis	9	49 21.52	— 0.19	— 7.07	341 20 6.32	29.741	— 18.4	24.7	1 49	.....	.. ..	....
9	α Arietis	9	1 46.81	— 0.17	— 7.03	344 0 6.42	30.002	— 15.6	23.4	2 1	.....	.. ..	....
10	β Trianguli	..	.. ..	....	.....	355 32 6.55	28.452	— 4.2	23.3	2 3	.....	.. ..	....
	May 20, L.												
11	Sun I, S	9	44 57.97	— 0.16	— **7.07**	340 38 7.88	28.578	— 19.1	**24.4**	3 44 50.74	+67.52	+19 37 11.3	....
12	Sun II, N	9	47 13.02	— 0.16	— **7.07**	341 10 7.05	27.850	— 18.5	**24.4**	3 47 5.79	—67.53	+20 8 50.1	....
13	α Tauri	9	30 25.57	— 0.17	— 7.06	337 20 4.90	27.644	— 22.6	24.2	4 30	.....	.. ..	....
14	ι Aurigæ	..	.. ..	....	.....	354 2 5.82	26.918	— 5.6	24.9	4 50	.....	.. ..	....
15	β Orionis	9	9 57.32	— 0.32	— 7.06	312 42 7.30	29.452	— 58.6	23.7	5 9	.....	.. ..	....
16	Mercury I, C	9	14 38.31	— 0.09	— **7.09**	346 24 5.42	27.630	— 13.1	**24.4**	5 14 31.13	+ 0.25	+25 22 47.6	....
17	β Tauri	9	20 13.69	— 0.06	— 7.15	349 32 5.92	28.720	— 10.0	23.5	5 20	.....	.. ..	....
18	α Orionis	2	49 59.86	— 0.20	— 7.10	328 24 8.25	29.055	— 33.3	25.5	5 49	.....	.. ..	....
	May 21, R.												
19	α^2 Libræ	9	45 38.48	— 0.47	— 7.45	305 24 13.02	27.636	—1 20.2	26.8	14 45	.....	.. ..	....
20	γ Scorpii	9	58 31.39	— 0.52	— 7.38	296 8 11.55	29.512	—1 55.9	26.7	14 58	.....	.. ..	....
21	β Libræ	9	11 54.90	— 0.42	— 7.38	312 0 10.18	28.928	—1 3.4	27.5	15 11	.....	.. ..	....
22	Moon I, N	6	41 58.88	— 0.47	— **7.43**	302 56 12.80	27.625	—1 28.2	**26.5**	15 41 50.98	+64.11	—18 6 21.1	....
23	δ Scorpii	9	54 43.66	— 0.48	— 7.44	298 42 11.88	27.664	—1 44.3	26.5	15 54	.....	.. ..	....
24	β^1 Scorpii	9	59 55.57	— 0.46	— 7.46	301 30 14.00	27.931	—1 33.2	26.7	15 59	.....	.. ..	....
25	α Scorpii	9	23 35.36	— 0.50	— 7.40	294 50 11.22	27.754	—2 3.3	24.9	16 23	.....	.. ..	....
26	η Ophiuchi	9	4 56.63	— 0.42	— 7.52	305 26 1.70	28.128	—1 20.6	26.3	17 4	.....	.. ..	....
27	α^1 Herculis	7	10 21.24	— 0.26	— 7.43	335 31 59.45	26.932	— 26.2	26.7	17 10	.....	.. ..	....
28	Uranus C, C	9	16 57.77	— 0.46	— **7.46**	297 54 2.25	26.514	—1 48.4	**26.5**	17 16 49.85	.....	—23 9 24.3	....
29	μ Sagittarii	8	8 5.29	— 0.45	— 7.47	299 58 5.18	27.076	—1 39.6	26.5	18 7	.....	.. ..	....
	May 21, Br.												
30	α Andromedæ	7	3 28.31	— 0.14	— 7.66	349 33 56.60	28.258	— 10.4	27.1	0 3	.....	.. ..	....
31	γ Pegasi	9	8 20.43	— 0.24	— 7.71	335 40 1.18	27.415	— 25.6	27.1	0 8	.....	.. ..	....
32	β Ceti	9	38 49.13	— 0.46	— 7.77	302 30 8.70	30.119	—1 28.4	28.1	0 38	.....	.. ..	....
33	Venus II, N	9	3 6.52	— 0.30	— **7.72**	325 40 7.82	27.079	— 38.5	**27.1**	1 2 58.50	— 0.63	+ 4 38 6.4	....
34	β Arietis	9	49 22.21	— 0.19	— 7.72	341 22 4.50	25.690	— 18.9	26.9	1 49	.....	.. ..	....
35	α Arietis	9	1 47.57	— 0.17	— 7.75	344 0 5.28	30.160	— 16.0	26.3	2 1	.....	.. ..	....
	May 22, Br.												
36	Sun I, S	9	52 58.29	— 0.17	— **7.75**	341 2 6.58	30.087	— 19.1	**26.6**	3 52 50.37	+67.65	+20 1 50.8	....
37	Sun II, N	9	55 13.59	— 0.17	— **7.75**	341 34 7.95	29.315	— 18.5	**26.6**	3 55 5.67	—67.65	+20 33 30.5	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
19	13	30	29.674	69.8	67.3
	13	37	....	....	67.2
	13	50	29.676	69.5	67.2
	14	14	29.678	69.1	67.3
	1	4	29.728	71.7	71.4
	1	49	....	....	76.1
	2	2	29.750	77.0	77.0
20	3	48	29.788	80.1	80.6
	4	30	29.794	81.7	82.1
	4	51	....	....	82.0
	5	10	....	....	82.2
	5	20	....	....	82.2
	5	50	....	....	82.3
	6	30	29.788	84.7	....
21	14	46	30.093	63.1	59.8
	14	59	....	....	59.3
	15	12	30.084	61.8	59.1
	15	42	30.073	60.8	58.3
	16	0	30.067	60.5	58.0
	16	24	30.060	59.9	57.4
	17	5	....	....	56.5
	17	10	....	....	56.3
	17	17	30.055	58.5	56.2
	18	8	30.038	58.0	55.1
	0	8	30.054	62.1	63.6
	0	41	30.054	63.5	64.9
	1	3	30.052	64.9	66.0
	1	49	30.056	70.1	68.0
	2	2	30.056	69.8	68.8
22	3	55	30.020	72.6	72.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4.	Bisections at II, III, IV, V, VI.
10, 27, 30.	Bisections at VI, VII.
11, 36.	Bisections at I, II, III.
12, 37.	Bisections at V, VI, VII.
14.	Bisections at I, II.
22.	Bisections at IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+42 46.5	—14 52.6	...	+27 53.9
11	+ 2.9	+15 49.4	...	+15 52.3
12	+ 2.8	—15 49.3	...	—15 46.5
16	+ 2.0	....	+ 0.2	+ 2.2
22	+45 11.6	—14 45.4	...	+30 26.2
28	+ 0.4	....	...	+ 0.4
33	+ 5.4	— 9.5	...	— 4.1
36	+ 2.7	+15 49.9	...	+15 52.6
37	+ 2.8	—15 49.9	...	—15 47.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Tauri	9	30 26.41	− 0.19	− 7.87	337 20 4.12	27.751	− 23.2	25.8	4 30	.....	.. ..	....
2	ι Aurigæ	7	50 45.20	− 0.09	− 7.79	354 2	......	....	....	4 50	.....	.. ..	....
3	β Orionis	9	9 57.96	− 0.30	− 7.71	312 42 3.58	29.704	− 59.8	25.7	5 9	.....	.. ..	....
4	β Tauri	9	20 14.30	− 0.11	− 7.70	349 32 2.90	28.906	− 10.2	25.7	5 20	.....	.. ..	....
5	Mercury I, C	9	26 59.57	− 0.13	− **7.76**	346 34 2.32	27.128	− 13.2	**26.3**	5 26 51.68	+ 0.26	+25 32 28.2	....
6	ε Orionis	9	31 22.86	− 0.26	− 7.73	319 46 6.80	27.138	− 46.7	28.1	5 31	.....	.. ..	....
	May 22, U.												
7	ε Virginis	9	57 28.39	− 0.20	[− 7.80]	332 30	......	....	....	12 57	.....	.. ..	....
8	20 Canum Venat.	9	13 19.18	− 0.07	[− 7.78]	2 8	......	....	....	13 13	.....	.. ..	....
9	α Ursæ Minoris S. P.	9	23 33.50	−10.58	[− 7.57]	52 12	......	....	....	1 23	.....	.. ..	....
	May 22, Br.												
10	δ Scorpii	9	54 43.98	− 0.36	− 7.87	298 42 13.32	27.500	−1 41.5	26.2	15 54	.....	.. ..	....
11	β¹ Scorpii	9	59 55.94	− 0.34	− 7.94	301 30 17.38	27.712	−1 30.8	26.2	15 59	.....	.. ..	....
12	δ Ophiuchi	9	9 23.81	− 0.27	− 7.89	317 36 14.22	25.855	− 51.0	26.4	16 9	.....	.. ..	....
13	α Scorpii	9	23 35.77	− 0.38	− 7.91	294 50 14.32	27.534	−1 59.9	25.2	16 23	.....	.. ..	....
14	Moon II, N	9	35 26.51	− 0.35	− **7.91**	301 36 16.18	28.525	−1 30.4	**26.2**	16 35 18.25	−64.53	−19 25 54.9	....
15	κ Ophiuchi	9	53 12.76	− 0.22	− 7.89	330 32 13.48	29.825	− 31.5	26.7	16 53	.....	.. ..	....
16	η Ophiuchi	9	4 56.96	− 0.32	− 7.94	305 26 12.85	27.661	−1 18.3	26.3	17 4	.....	.. ..	....
	May 22, L.												
17	γ Pegasi	8	8 20.80	− 0.21	− 8.08	335 40 12.05	26.986	− 24.9	26.3	0 8	.....	.. ..	....
18	β Ceti	7	38 49.40	− 0.40	− 8.07	302 30	......	....	....	0 38	.....	.. ..	....
19	β Andromedæ	9	4 23.81	− 0.08	− 8.07	356 6 9.72	29.788	− 3.7	26.2	1 4	.....	.. ..	....
20	Venus II, N	9	7 12.99	− 0.26	− **8.08**	326 2 11.90	28.906	− 36.8	**26.0**	1 7 4.65	− 0.63	+5 1 5.3	....
21	α Arietis	4	1 47.94	− 0.15	− 8.12	344 0	.....	....	....	2 1	.....	.. ..	....
	May 23, L.												
22	Sun II, N	8	59 14.98	− 0.15	− **8.08**	341 46 11.98	28.710	− 17.8	**26.0**	3 59 6.75	−67.83	+20 45 18.7	....
23	β Orionis	9	9 58.31	− 0.29	− 8.07	312 42 14.72	29.262	− 58.2	25.6	5 9	.....	.. ..	....
24	β Tauri	9	20 14.66	− 0.09	− 8.08	349 32 12.35	28.592	− 9.9	26.5	5 20	.....	.. ..	....
25	Mercury I, C	9	32 47.66	− 0.10	− **8.07**	346 36 11.70	26.682	− 12.8	**26.0**	5 32 39.49	+ 0.26	+25 34 25.6	....
26	α Orionis	9	50 0.79	− 0.20	− 8.03	328 24 12.22	28.940	− 33.0	26.3	5 49	.....	.. ..	....
27	γ Geminorum	9	32 12.08	− 0.14	− 8.11	337 30 12.78	27.779	− 22.2	25.4	6 32	.....	.. ..	....
	May 25, R.												
28	ζ Ophiuchi	9	31 58.33	− 0.42	− 8.95	310 40 13.80	27.270	−1 5.3	26.0	16 31	.....	.. ..	....
29	κ Ophiuchi	9	53 13.91	− 0.30	− 8.93	330 34 12.88	25.699	− 31.7	27.8	16 53	.....	.. ..	....
30	η Ophiuchi	9	4 58.21	− 0.45	− 9.01	305 26 10.12	27.775	−1 18.7	26.3	17 4	.....	.. ..	....
31	Uranus C, C	9	16 19.60	− 0.51	− **8.97**	297 54 13.02	27.381	−1 45.4	**26.5**	17 16 10.12	.....	−23 8 45.8	....
32	α Ophiuchi	9	30 35.19	− 0.28	− 8.93	333 40 11.18	26.096	− 27.7	25.9	17 30	.....	.. ..	....
33	γ² Sagittarii	9	59 43.91	− 0.56	− 9.03	290 38 12.70	27.535	−2 27.3	25.4	17 59	.....	.. ..	....
34	λ Sagittarii	9	22 8.31	− 0.52	− 9.05	295 34 16.48	28.424	−1 56.3	26.9	18 21	.....	.. ..	....
35	σ Sagittarii	9	49 24.10	− 0.53	− 9.00	294 38 6.88	27.838	−2 1.4	26.3	18 49	.....	.. ..	....
36	Moon II, N	9	10 29.33	− 0.48	− **9.04**	303 2 13.82	28.557	−1 25.7	**26.5**	19 10 19.81	−64.42	−17 59 52.0	....
37	κ Aquilæ	9	31 49.38	− 0.40	− 9.05	313 46 14.42	30.334	− 58.3	26.6	19 31	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
22 4 30	30.002	73.4	73.3
5 10	29.998	75.0	75.1
5 20	......	....	75.6
5 31	29.992	76.0	75.9
15 55	......	....	68.1
16 0	29.860	68.9	....
16 9	......	....	68.0
16 24	......	....	68.0
16 35	29.854	68.9	68.0
16 53	......	....	67.4
17 5	......	....	67.3
17 25	29.836	68.4	....
0 8	29.834	71.8	75.2
1 7	29.846	76.0	78.1
23 4 0	29.845	83.8	83.8
5 10	29.830	86.2	86.4
5 20	......	....	86.8
5 33	......	....	87.0
5 50	......	....	87.0
6 32	29.812	88.8	88.0
25 16 32	29.682	64.8	62.1
16 53	......	....	62.0
17 5	......	....	62.3
17 16	29.667	64.4	62.8
17 31	......	....	62.6
18 0	29.654	64.2	62.9
18 22	......	....	63.0
18 49	29.638	64.3	63.2
19 10	......	....	63.4
19 32	29.639	64.4	63.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

14, 36. Bisections at II, III, IV, V, VI.
19. Bisections at I, II.
22. Bisections at V, VI, VII.
24. Bisections at I, VI, VII.
30. Bisections at I, II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 2.1	....	+ 0.2	+ 2.3
14	+45 47.6	−14 44.1	...	+31 3.5
20	+ 5.3	− 9.4	...	− 4.1
22	+ 2.7	−15 49.4	...	−15 46.7
25	+ 2.2	....	+ 0.2	+ 2.4
31	+ 0.4	....	...	+ 0.4
36	+45 22.7	−14 50.1	...	+30 32.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Saturn I, N......	4	58 36.28	− 0.49	− **9.05**	300 22 16.48	29.075	−1 35.1	**26.5**	19 58 26.74	+ 0.62	−20 39 43.7	....
2	Saturn II, S......	5	58 37.51	− 0.49	− **9.05**	300 22 16.48	28.505	−1 35.1	**26.5**	19 58 27.97	− 0.61	−20 40 0.1	....
3	π Capricorni.......	9	21 54.87	− 0.47	− 9.07	302 30 14.60	28.845	−1 27.6	25.4	20 21	.....	.. ..	....
4	α Delphini	9	35 16.79	− 0.26	− 9.02	336 36 9.45	26.384	− 24.2	25.5	20 35	.....	.. ..	....
5	μ Aquarii..........	9	47 33.97	− 0.42	− 9.08	311 40 13.95	29.866	−1 2.8	26.4	20 47	.....	.. ..	....
6	Jupiter I, N......	5	19 2.46	− 0.46	− **9.07**	304 42 12.95	28.938	−1 20.6	**26.5**	21 18 52.93	+ 1.41	−16 19 36.7	....
7	Jupiter II, S.....	5	19 5.28	− 0.46	− **9.07**	304 42 12.95	27.585	−1 20.7	**26.5**	21 18 55.75	− 1.41	−16 20 15.5	....
8	ε Pegasi...........	9	39 33.78	− 0.30	− 9.11	330 26 11.70	29.975	− 31.7	27.6	21 39	.....	.. ..	....
9	α Aquarii..........	9	0 56.36	− 0.36	− 9.05	320 14 12.88	27.856	− 46.4	28.0	22 0	.....	.. ..	....
	May 25, Br.												
10	β Andromedæ	9	4 25.08	− 0.11	− 9.23	356 6 10.18	29.726	− 3.7	25.1	1 4	.....	.. ..	....
11	Venus II, N.	9	19 37.17	− 0.31	− **9.32**	327 12 9.00	27.184	− 35.4	**25.4**	1 19 27.54	− 0.62	+ 6 10 15.4	....
12	ζ Ceti...............	9	46 47.72	− 0.41	− 9.40	310 12	......	....	....	1 46	.....	.. ..	....
13	β Arietis	9	49 23.92	− 0.22	− 9.31	341 22 10.55	25.420	− 18.5	25.4	1 49	.....	.. ..	....
14	α Arietis	9	1 49.29	− 0.20	− 9.35	344 0 9.80	29.980	− 15.7	25.9	2 1	.....	.. ..	....
	May 26, Br.												
15	Sun I, S.........	5	9 5.82	− 0.19	− **9.36**	341 48 13.10	28.080	− 17.9	**26.0**	4 8 56.27	+67.98	+20 47 1.8	....
16	Sun II, N	9	11 21.79	− 0.19	− **9.37**	342 20 12.45	27.348	− 17.4	**26.0**	4 11 12.23	−67.98	+21 18 40.7	....
17	Mercury I, C	4	48 36.76	− 0.15	− **9.39**	346 30 10.10	30.033	− 13.0	**26.3**	5 48 27.22	+ 0.28	+25 29 58.9	....
18	α Orionis...........	9	50 2.24	− 0.26	− 9.42	328 24 14.15	28.892	− 33.4	26.4	5 49	.....	.. ..	....
19	γ Geminorum	9	32 13.36	− 0.20	− 9.34	337 30 11.20	27.842	− 22.5	25.2	6 32	.....	.. ..	....
20	ε Geminorum	7	38 4.59	− 0.14	− 9.44	346 14	......	....	....	6 37	.....	.. ..	....
21	α Canis Majoris ...	8	40 59.86	− 0.39	− 9.35	304 28 13.80	25.638	−1 18.9	27.7	6 40	.....	.. ..	....
22	α Canis Minoris....	8	34 20.97	− 0.25	− 9.49	326 30 9.85	27.361	− 36.1	26.8	7 34	.....	.. ..	....
	May 27, L.												
23	ψ Capricorni.......	..	.. ..	....	.....	295 26 16.00	27.099	−2 1.2	24.4	20 40	.....	.. ..	....
24	μ Aquarii..........	..	.. ..	....	.....	311 40 17.78	29.815	−1 5.0	26.1	20 47	.....	.. ..	....
25	Moon N	..	.. ..	....	.....	308 14 17.78	26.723	−1 13.4	**25.8**	20 50	.....	−12 48 27.3	....
26	ζ Cygni	9	8 58.66	− 0.26	−10.25	350 50 15.50	28.718	− 9.3	26.0	21 8	.....	.. ..	....
27	ι Pegasi...........	7	17 45.98	− 0.34	−10.19	340 24	......	....	....	21 17	.....	.. ..	....
28	Jupiter I, S	5	19 18.98	− 0.58	−**10.23**	304 42 18.42	28.908	−1 23.5	**25.8**	21 19 8.17	+ 1.53	−16 19 34.3	....
29	Jupiter II, N	5	19 22.04	− 0.58	−**10.23**	304 42 18.42	30.335	−1 23.5	**25.8**	21 19 11.23	− 1.53	−16 18 53.8	....
30	β Aquarii..........	9	26 36.96	− 0.51	−10.26	315 2 12.68	27.470	− 57.9	26.3	21 26	.....	.. ..	....
31	ξ Aquarii..........	9	32 45.02	− 0.52	−10.23	312 44 17.18	28.601	−1 2.7	26.3	21 32	.....	.. ..	....
	May 28, S.												
32	α Aquilæ..........	8	46 13.60	− 0.40	−10.45	329 38	......	....	....	19 46	.....	.. ..	....
33	θ Aquilæ..........	9	6 28.44	− 0.45	−10.46	319 56 11.88	25.899	− 49.1	27.6	20 6	.....	.. ..	....
34	α^2 Capricorni.......	9	12 50.80	− 0.53	−10.53	308 10 9.85	30.736	−1 14.2	26.1	20 12	.....	.. ..	....
35	Moon II, N	9	41 53.48	− 0.49	−**10.52**	311 50 11.18	28.187	−1 5.0	**27.5**	21 41 42.47	−63.88	− 9 11 45.5	....
36	α Aquarii..........	9	0 57.99	− 0.43	−10.52	320 14 8.52	28.086	− 48.4	27.6	22 0	.....	.. ..	....
37	π Aquarii..........	9	20 29.19	− 0.41	−10.58	321 54 8.85	29.136	− 45.5	27.9	22 20	.....	.. ..	....
38	η Aquarii..........	9	30 32.03	− 0.42	−10.56	320 24 10.32	28.862	− 47.9	28.3	22 30	.....	.. ..	....
	May 28, Br.												
39	β Ceti*...	9	38 52.28	− 0.50	−10.70	302 30 10.30	30.166	−1 29.8	28.1	0 38	.....	.. ..	....
40	β Andromedæ	9	4 26.64	− 0.19	−10.62	356 6 2.30	30.102	− 3.8	27.7	1 4	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
25 19 59	......	....	63.0
20 22	29.637	64.0	62.8
20 35	......	....	62.7
20 48	......	....	62.7
21 19	29.656	63.7	63.0
21 40	......	....	63.4
22 1	29.654	64.4	64.8
1 4	29.674	72.3	72.2
1 20	......	....	73.0
1 49	29.692	75.1	73.7
2 2	29.696	79.5	73.9
26 4 11	29.680	78.0	76.3
5 50	29.652	79.5	77.3
6 32	......	....	78.1
6 41	29.638	80.9	78.4
7 34	29.628	78.9	75.1
27 20 40	29.590	48.2	45.0
21 9	......	....	44.8
21 33	29.594	47.2	44.2
28 19 46	29.798	46.8	45.0
20 13	......	....	44.4
21 42	29.856	47.2	46.8
22 1	29.865	47.6	47.1
22 31	29.882	49.0	49.5
0 39	29.922	54.1	55.2
1 4	......	....	56.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 6, 28.	Bisections at I, VII.
2, 7, 29.	Bisections at II, VI.
15.	Bisection at I.
16.	Bisections at V, VI, VII.
17.	Bisections at I, II, VII.
18.	Bisections at VI, VII.
24.	Bisections at I, II.
25, 35.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 0.8	− 8.2	...	− 7.4
2	+ 0.8	+ 8.2	...	+ 9.0
6	+ 1.6	− 19.4	...	− 17.8
7	+ 1.6	+ 19.4	...	+ 21.0
11	+ 5.0	− 9.2	...	− 4.2
15	+ 2.7	+15 49.4	...	+15 52.1
16	+ 2.6	−15 49.4	...	−15 46.8
17	+ 2.3	....	+ 0.2	+ 2.5
25	+43 10.9	−15 4.4	...	+28 6.5
28	+ 1.6	+ 20.3	...	+ 21.9
29	+ 1.6	− 20.2	...	− 18.6
35	+41 24.9	−15 15.1	...	+26 9.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Venus II, N	9	32 9.02	− 0.36	**−10.71**	328 20 6.08	29.925	− 35.3	**27.3**	1 31 57.95	− 0.60	+ 7 19 28.7	....
2	β Arietis	9	49 25.51	− 0.28	−10.76	341 22 4.75	25.698	− 19.3	26.5	1 49	.....	.. ..	....
3	α Arietis	9	1 50.82	− 0.27	−10.74	344 0 3.52	30.260	− 16.3	26.9	2 1	.....	.. ..	....
	May 29, Br.												....
4	Sun I, N	9	21 16.97	− 0.28	**−10.71**	342 50 1.80	27.817	− 17.5	**26.4**	4 21 5.98	+68.22	+21 48 43.1	....
5	Sun II, S........	9	23 33.42	− 0.28	**−10.71**	342 18 1.35	28.678	− 18.0	**26.4**	4 23 22.43	−68.23	+21 17 6.5	....
6	β Orionis..........	9	10 1.22	− 0.44	−10.81	312 42 5.52	29.731	−1 1.2	25.9	5 9	.....	.. ..	....
7	β Tauri............	8	20 17.49	− 0.23	−10.75	349 32 2.62	28.891	− 10.4	25.2	5 20	.....	.. ..	....
8	ε Orionis..........	7	31 25.91	− 0.40	−10.63	319 46 5.92	27.220	− 47.7	27.7	5 31	.....	.. ..	....
9	α Orionis..........	9	50 3.61	− 0.36	−10.69	328 24 2.38	29.316	− 34.6	25.2	5 49	.....	.. ..	....
10	Mercury I, C	9	1 54.79	− 0.26	**−10.71**	346 12 3.10	30.414	− 13.8	**25.8**	6 1 43.82	+ 0.31	+25 12 2.5	....
11	μ Geminorum	9	17 13.62	− 0.27	−10.66	343 34 1.70	29.849	− 16.6	25.7	6 17	.....	.. ..	....
	May 29, U.												
12	α Ursæ Minoris S. P.	9	23 43.78	−12.08	[−11.04]	52 12	......	....	....	1 23	.....	.. ..	....
13	*m* Virginis	9	36 42.06	− 0.46	[−10.72]	312 50	......	....	....	13 36	.....	.. ..	....
	May 29, Br.												
14	β Aquilæ..........	9	50 43.81	− 0.34	−10.86	327 12 10.02	26.435	− 37.3	28.4	19 50	.....	.. ..	....
15	Saturn I, S	4	58 6.71	− 0.46	**−10.85**	300 20 15.82	29.142	−1 38.6	**28.9**	19 57 55.40	+ 0.65	−20 41 48.4	....
16	Saturn II, N.....	5	58 8.01	− 0.46	**−10.85**	300 20 15.82	29.732	−1 38.6	**28.9**	19 57 56.70	− 0.65	−20 41 31.7	....
17	θ Aquilæ	9	6 28.80	− 0.37	−10.88	319 56 6.28	26.180	− 48.7	30.3	20 6	.....	.. ..	....
18	α^2 Capricorni.......	9	12 51.02	− 0.43	−10.82	308 12 10.82	26.541	−1 13.6	27.9	20 12	.....	.. ..	....
19	π Capricorni.......	9	21 56.74	− 0.45	−10.84	302 30 13.05	29.152	−1 30.7	29.0	20 21	.....	.. ..	....
20	Jupiter I, S	5	19 31.84	− 0.44	**−10.86**	304 42 10.50	30.220	−1 23.6	**28.9**	21 19 20.54	+ 1.47	−16 19 8.1	....
21	Jupiter II, N.....	4	19 34.78	− 0.44	**−10.86**	304 42 10.50	31.640	−1 23.5	**28.9**	21 19 23.48	− 1.47	−16 18 27.6	....
22	α Aquarii..........	9	0 58.30	− 0.37	−10.86	320 14 8.10	28.205	− 48.2	30.5	22 0	.....	.. ..	....
23	θ Aquarii..........	9	11 53.01	− 0.40	−10.90	312 46 10.70	27.582	−1 2.6	29.8	22 11	.....	.. ..	....
24	γ Aquarii..........	9	16 48.89	− 0.38	−10.90	319 8 7.50	30.199	− 50.1	31.2	22 16	.....	.. ..	....
25	Moon II, N.......	9	32 14.50	− 0.40	**−10.88**	315 58 9.30	27.423	− 55.9	**30.4**	22 32 3.22	−64.26	− 5 4 3.0	....
26	ζ Pegasi...........	9	36 47.46	− 0.32	−10.84	331 20 7.25	29.476	− 31.6	30.2	22 36	.....	.. ..	....
	May 30, U.												
27	α Ursæ Minoris S. P.	9	23 40.72	− 7.86	[−11.55]	52 12	......	....	....	1 23	.....	.. ..	....
28	*m* Virginis	9	36 42.41	− 0.38	[−11.15]	312 50	......	....	....	13 36	.....	.. ..	....
	June 1, U.												
29	α Ursæ Minoris S. P.	9	23 44.11	− 9.12	[−11.90]	52 12	......	....	....	1 23	.....	.. ..	....
30	*m* Virginis	9	36 43.03	− 0.41	[−11.75]	312 50	......	....	....	13 36	.....	.. ..	....
	June 1, Br.												
31	β Andromedæ	9	4 28.00	− 0.15	−11.90	356 6 7.58	29.984	− 3.7	29.6	1 4	.....	.. ..	....
32	Moon II........	9	12 17.62	− 0.30	**−11.98**	329 26	......	....	....	1 12 5.34	−68.33	.. ..	....
33	β Arietis	7	49 26.79	− 0.23	−12.00	341 22 8.38	25.632	− 18.8	28.5	1 49	.....	.. ..	....
34	α Arietis	8	1 52.10	− 0.22	−11.98	344 0 10.92	30.049	− 15.9	28.4	2 1	.....	.. ..	....
35	α Ceti..............	7	57 22.33	− 0.31	−12.00	324 44 13.75	27.430	− 39.1	30.0	2 57	.....	.. ..	....
	June 2, Br.												
36	Sun I, S	9	37 37.78	− 0.22	**−11.93**	342 52 6.75	30.342	− 16.9	**28.2**	4 37 25.63	+68.47	+21 51 58.7	....
37	Sun II, N	8	39 54.70	− 0.22	**−11.92**	343 24 12.08	29.265	− 16.3	**28.2**	4 39 42.56	−68.46	+22 23 33.9	....
38	α Orionis..........	..	.. ..	....	.....	328 24 10.52	29.139	− 33.6	29.0	5 49	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
28 1 32	29.938	56.8	57.0
1 49	......	....	57.9
2 2	29.946	59.4	58.0
29 4 24	29.944	62.8	62.3
5 10	29.946	64.0	63.1
5 20	......	....	63.9
5 31	29.944	65.0	64.5
5 50	......	....	64.6
6 2	... ..	....	64.6
6 17	29.940	66.0	64.8
19 51	29.948	52.9	51.0
20 6	......	....	50.9
20 22	29.954	52.7	50.7
21 20	29.962	52.0	50.2
22 1	29.976	52.0	50.9
22 17	......	....	51.0
22 32	......	....	52.3
22 37	29.988	52.0	52.6
1 0 59	30.112	68.8	72.0
1 49	......	....	73.5
2 4	30.106	73.0	74.0
2 57	30.096	76.5	76.2
2 4 40	30.072	80.4	79.5
5 17	30.060	81.3	81.0
5 50	......	....	81.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 36.	Bisections at I, II, III.
5.	Bisections at V, VI, VII.
8.	Bisections at II, VII.
15, 20.	Bisections at I, VII.
16, 21.	Bisections at II, VI.
23, 35, 37.	Bisections at VI, VII.
25.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 4.7	− 8.9	...	− 4.2
4	+ 2.5	−15 48.2	...	−15 45.7
5	+ 2.6	+15 48.3	...	+15 50.9
10	+ 2.5	....	+ 0.1	+ 2.6
15	+ 0.8	+ 8.4	...	+ 9.2
16	+ 0.8	− 8.3	...	− 7.5
20	+ 1.6	+ 20.3	...	+ 21.9
21	+ 1.6	− 20.2	...	− 18.6
25	+39 9.5	−15 27.9	...	+23 41.6
36	+ 2.5	+15 47.6	...	+15 50.1
37	+ 2.4	−15 47.5	...	−15 45.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	θ Aurigæ	7	53 15.19	− 0.14	−11.94	358 12 4.85	30.420	− 1.6	27.6	5 53	.....	.. ..	....
2	η Geminorum	6	9 10.64	− 0.22	−11.90	343 32 6.18	30.311	− 16.1	27.2	6 8	.....	.. ..	....
3	Mercury I, C.	9	15 25.18	− 0.21	**−11.90**	345 32 7.72	29.438	− 14.1	**27.7**	6 15 13.07	+ 0.33	+24 31 37.5	....
4	γ Geminorum	9	32 15.96	− 0.25	−11.90	337 30 7.88	28.050	− 22.6	27.8	6 32	.....	.. ..	....
5	ε Geminorum	9	38 7.08	− 0.21	−11.86	346 14 5.82	29.341	− 13.4	27.2	6 37	.....	.. ..	....
6	δ Geminorum	7	14 29.24	− 0.22	−11.87	343 10 10.60	29.415	− 16.5	27.2	7 14	.....	.. ..	....
	June 2, U.												
7	α Ursæ Minoris S. P.	9	23 44.61	− 8.33	[−12.26]	52 12	......	....	....	1 23	.....	.. ..	....
8	m Virginis	9	36 43.34	− 0.35	[−12.13]	312 50	......	....	....	13 36	.....	.. ..	....
	June 2, L.												
9	β Andromedæ	9	4 28.50	− 0.13	−12.39	356 6 16.72	29.641	− 3.7	28.9	1 4	.....	.. ..	....
10	β Arietis	9	49 27.29	− 0.21	−12.49	341 20 18.90	29.480	− 18.4	28.8	1 49	.....	.. ..	....
11	Venus II, N.	8	53 18.91	− 0.27	**−12.43**	330 16 21.68	26.511	− 31.2	**28.9**	1 53 6.21	− 0.58	+ 9 14 9.6	....
12	α Arietis	8	1 52.61	− 0.20	−12.48	344 0 16.70	29.828	− 15.6	28.0	2 1	.....	.. ..	....
13	α Ceti	8	57 22.72	− 0.30	−12.38	324 44 17.68	27.268	− 38.3	29.8	2 57	.....	.. ..	....
	June 3, L.												
14	Sun I, N	9	41 44.26	− 0.20	**−12.45**	343 32 12.48	28.700	− 15.9	**28.2**	4 41 31.61	+68.52	+22 31 18.9	....
15	α Orionis	9	50 5.28	− 0.26	−12.45	328 24 14.60	28.914	− 33.0	27.2	5 49	.....	.. ..	....
16	Mercury I, C.	8	18 0.50	− 0.18	**−12.45**	345 20 11.05	28.331	− 14.0	**27.9**	6 17 47.87	+ 0.34	+24 19 8.8	....
17	α Canis Majoris	9	41 2.90	− 0.36	−12.45	304 26 16.10	29.814	−1 17.8	28.7	6 40	.....	.. ..	....
18	α² Geminorum	9	28 34.40	− 0.14	−12.46	353 8 9.75	25.904	− 6.4	27.4	7 28	.....	.. ..	....
	June 3, S.												
19	β Andromedæ	9	4 28.87	− 0.22	−12.63	356 6 9.75	29.864	− 3.7	28.3	1 4	.....	.. ..	....
20	Venus II, N	9	57 35.49	− 0.38	**−12.69**	330 38 15.65	28.178	− 30.8	**28.1**	1 57 22.42	− 0.58	+ 9 36 52.2	....
21	α Arietis	9	1 52.99	− 0.30	−12.73	344 0 10.65	29.994	− 15.6	26.7	2 1	.....	.. ..	....
	June 4, S.												
22	Sun I, S	9	45 51.08	− 0.30	**−12.73**	343 8 14.90	28.283	− 16.4	**28.1**	4 45 38.05	+68.47	+22 7 8.8	....
23	Sun II, N	9	48 8.02	− 0.30	**−12.73**	343 40 7.92	27.562	− 15.8	**28.1**	4 47 54.99	−68.47	+22 38 41.8	....
24	ε Orionis	9	31 28.12	− 0.43	−12.79	319 46 12.30	26.971	− 45.7	28.3	5 31	.....	.. ..	....
25	α Orionis	9	50 5.70	− 0.38	−12.74	328 24 12.25	29.046	− 33.2	28.3	5 49	.....	.. ..	....
26	Mercury I, C	9	20 16.19	− 0.27	**−12.76**	345 8 12.15	25.668	− 14.3	**28.1**	6 20 3.16	+ 0.34	+24 5 53.6	....
27	α Canis Majoris	9	41 3.38	− 0.52	−12.77	304 28 13.42	25.738	−1 18.3	29.3	6 40	.....	.. ..	....
28	β Geminorum	9	39 33.10	− 0.23	−12.74	349 16 8.32	29.341	− 10.2	27.7	7 39	.....	.. ..	....
	June 4, U.												
29	α Ursæ Minoris S. P.	9	23 52.61	−15.02	[−11.57]	52 12	......	....	....	1 23	.....	.. ..	....
30	m Virginis	9	36 44.51	− 0.50	[−13.16]	312 50	......	....	....	13 36	.....	.. ..	....
	June 4, L.												
31	η Piscium	7	26 28.89	− 0.12	−13.28	24 0 11.15	28.536	+ 25.0	52.8	1 26	.....	.. ..	....
32	β Arietis	8	49 28.02	− 0.10	−13.28	18 32 8.42	26.228	+ 18.9	51.7	1 49	.....	.. ..	....
33	Venus II, N	9	1 53.19	− 0.14	**−13.28**	28 52 6.62	26.465	+ 31.0	**52.7**	2 1 39.77	− 0.58	+ 9 59 28.3	....
34	α Ceti	9	57 23.53	− 0.18	−13.27	35 8 4.20	28.622	+ 39.4	53.7	2 57	.....	.. ..	....
	June 5, U.												
35	α Ursæ Minoris S. P.	8	23 50.74	−12.08	[−11.62]	307 40	......	....	....	1 23	.....	.. ..	....
36	m Virginis	9	36 44.55	− 0.28	[−13.42]	47 4	......	....	....	13 36	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
2 6 9	30.038	82.2	81.3
6 15	......	....	81.7
6 32	......	....	81.3
6 38	30.026	82.7	81.6
7 14	30.010	83.2	81.8
1 4	29.874	75.0	78.6
1 53	29.862	78.4	80.2
2 2	......	....	81.0
2 57	29.888	84.8	83.2
3 4 45	29.864	86.1	85.9
5 50	29.820	87.9	87.8
6 18	......	....	88.2
6 41	......	....	88.6
7 29	29.790	90.1	88.0
1 4	29.777	75.8	75.7
2 2	29.789	77.9	77.4
4 4 43	29.770	82.7	81.8
5 31	29.760	84.0	83.2
5 50	29.760	84.5	83.7
6 20	29.758	85.4	83.8
6 41	29.758	86.0	84.2
7 40	29.759	87.0	84.4
1 26	29.940	70.8	68.4
1 49	......	....	68.0
2 2	......	....	68.7
2 57	29.954	73.0	70.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1.	Bisection at VII.
3, 4, 23.	Bisections at VI, VII.
6.	Bisections at I, II, VII.
10.	Bisections at I, II.
14.	Bisections at V, VI, VII.
22.	Bisections at I, II, III.
31, 34.	Z. D. thread D_1 used.
34.	Bisections at I, II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 2.9	....	+ 0.1	+ 3.0
11	+ 4.3	− 8.5	...	− 4.2
14	+ 2.4	−15 47.7	...	−15 45.3
16	+ 3.0	....	0.0	+ 3.0
20	+ 4.3	− 8.5	...	− 4.2
22	+ 2.5	+15 46.5	...	+15 49.0
23	+ 2.4	−15 46.4	...	−15 44.0
26	+ 3.1	....	0.0	+ 3.1
33	+ 4.2	− 8.4	...	− 4.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	June 5, Br.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Andromedæ	9	4 29.86	− 0.05	−13.73	3 46 0.02	26.494	+ 3.8	53.0	1 4	.....	.. ..	....
2	η Piscium	9	26 29.37	− 0.14	−13.71	24 0 2.70	28.770	+ 25.1	51.2	1 26	.....	.. ..	....
3	β Arietis	9	49 28.47	− 0.12	−13.68	18 32 2.42	26.454	+ 18.8	52.1	1 49	.....	.. ..	....
4	α Arietis	8	1 53.72	− 0.11	−13.60	15 52 2.70	26.116	+ 16.0	51.3	2 1	.....	.. ..	....
5	Venus II, N.....	9	6 11.77	− 0.16	**−13.68**	28 28 3.55	29.754	+ 30.4	**52.1**	2 5 57.93	− 0.57	+10 21 57.6	....
	June 6, Br.												
6	Sun I, N.........	9	54 5.59	− 0.11	**−13.71**	15 58 6.25	29.509	+ 15.9	**53.2**	4 53 51.77	+68.69	+22 52 17.4	....
7	Sun II, S........	9	56 22.97	− 0.11	**−13.71**	16 30 5.62	28.600	+ 16.5	**53.2**	4 56 9.15	−68.69	+22 20 43.4	....
8	δ Orionis..........	8	27 14.47	− 0.20	−13.79	39 14 5.42	25.760	+ 45.2	53.7	5 27	.....	.. ..	....
9	ε Orionis..........	9	31 28.87	− 0.20	−13.76	40 6 3.68	29.188	+ 46.6	54.4	5 31	.....	.. ..	....
10	α Orionis..........	9	50 6.48	− 0.17	−13.72	31 28 4.18	27.118	+ 33.8	54.6	5 49	.....	.. ..	....
11	Mercury I, C	9	23 47.92	− 0.10	**−13.72**	15 14 2.92	27.199	+ 15.1	**53.8**	6 23 34.10	+ 0.36	+23 37 27.9	....
12	γ Geminorum	9	32 17.60	− 0.13	−13.66	22 22 4.30	28.189	+ 22.8	52.5	6 32	.....	.. ..	....
13	δ Geminorum	9	14 30.90	− 0.11	−13.65	16 42 8.50	26.605	+ 16.6	53.2	7 14	.....	.. ..	....
	June 6, U.												
14	α Ursæ Minoris S. P.	9	23 50.42	− 8.73	[−13.65]	307 40	......	....	....	1 23	.....	.. ..	....
15	m Virginis	9	36 44.93	− 0.24	[−13.85]	47 4	......	....	....	13 36	.....	.. ..	....
	June 8, U.												
16	α Ursæ Minoris S. P.	9	23 59.67	−11.45	[−18.32]	307 40	......	....	....	1 23	.....	.. ..	....
17	m Virginis.........	9	36 49.90	− 0.29	[−18.78]	47 4	......	....	....	13 36	.....	.. ..	....
	June 8, Br.												
18	β Arietis	8	49 33.89	− 0.18	−18.96	18 32 5.72	26.268	+ 19.2	50.8	1 49	.....	.. ..	....
19	α Arietis	9	1 59.16	− 0.16	−18.91	15 52 1.08	26.180	+ 16.2	52.0	2 1	.....	.. ..	....
20	β Trianguli.........	9	4 3.00	− 0.10	−18.93	4 20 2.18	27.728	+ 4.4	51.7	2 3	.....	.. ..	....
21	Venus II, N	9	19 17.74	− 0.22	**−18.93**	27 22 1.68	28.301	+ 29.4	**51.6**	2 18 58.59	− 0.56	+11 28 41.4	....
	June 9, Br.												
22	Sun I, S.........	8	6 33.92	− 0.15	**−18.86**	16 12 7.40	29.783	+ 16.4	**52.2**	5 6 14.91	+68.76	+22 38 6.9	....
23	Sun II, N	8	8 51.44	− 0.15	**−18.86**	15 40 7.00	30.752	+ 15.9	**52.2**	5 8 32.43	−68.76	+23 9 40.3	....
24	α Orionis....	9	50 11.62	− 0.20	−18.81	31 28 7.85	26.930	+ 34.4	53.7	5 49	.....	.. ..	....
25	Mercury I, C.....	6	26 38.71	− 0.15	**−18.83**	16 0 4.48	27.860	+ 16.1	**52.4**	6 26 19.73	+ 0.38	+22 51 4.9	....
26	γ Geminorum	9	32 22.84	− 0.17	−18.85	22 22 7.25	28.031	+ 23.0	51.3	6 32	.....	.. ..	....
27	β Geminorum	9	39 39.04	− 0.12	−18.81	10 36 4.40	26.916	+ 10.5	53.5	7 39	.....	.. ..	....
28	β Cancri	9	11 31.97	− 0.18	−18.76	29 22 7.02	27.309	+ 31.3	52.2	8 11	.....	.. ..	....
29	Moon I, N........	9	37 1.68	− 0.17	**−18.78**	25 48 6.45	28.091	+ 26.9	**52.9**	8 36 42.73	+69.40	+ 13 2 46.4	....
30	ε Hydræ	9	41 55.22	− 0.19	−18.73	32 4 9.92	28.343	+ 34.8	53.8	8 41	.....	.. ..	....
31	α Lyncis	9	15 25.32	− 0.09	−18.87	4 2 4.92	29.835	+ 4.0	51.7	9 15	.....	.. ..	....
	June 9, U.												
32	α Ursæ Minoris S. P.	7	23 59.77	− 9.83	[−19.18]	307 40	......	....	....	1 23	.....	.. ..	....
33	m Virginis	9	36 49.98	− 0.28	[−18.88]	47 4	......	....	....	13 36	.....	.. ..	....
	June 9, L.												
34	α Arietis	9	1 59.24	− 0.16	−18.96	15 52 2.50	26.119	+ 15.9	51.5	2 1	.....	.. ..	....
35	β Trianguli.........	9	4 3.10	− 0.10	−19.00	4 20 3.10	27.712	+ 4.3	52.1	2 3	.....	.. ..	....
36	Venus II, N.....	9	23 39.98	− 0.20	**−18.98**	27 0 11.20	28.185	+ 28.4	**51.9**	2 23 20.80	− 0.56	+11 50 36.4	....
37	Venus S.........	..	.. ..	....	.....	27 0 11.20	28.730	+ 28.4	**51.9**	.. ..	.....	+11 50 20.9	....
38	α Ceti.............	8	57 29.40	− 0.23	−18.99	35 8 0.30	28.714	+ 39.0	52.7	2 57	.....	.. ..	....
39	η Tauri	9	41 59.52	− 0.14	−18.97	15 1 59.32	30.142	+ 14.8	51.7	3 41	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
5 1 4	30.054	67.0	69.6
1 26	......	....	70.3
1 49	30.056	69.7	71.2
2 6	30.058	70.8	71.4
6 4 56	30.029	76.4	76.0
5 31	30.018	77.1	77.2
5 50	30.008	77.8	77.5
6 24	......	....	78.0
6 32	......	....	78.1
7 15	29.976	79.8	78.7
8 1 50	29.920	60.4	60.1
2 4	......	....	60.9
2 19	29.924	62.3	62.1
9 5 9	29.910	68.8	66.2
5 59	29.900	69.8	68.0
6 32	29.884	70.9	69.7
7 40	29.876	72.9	71.6
8 12	......	....	72.3
8 42	......	....	72.5
9 15	29.862	74.6	73.0
2 4	29.796	66.6	70.0
2 24	......	....	71.2
2 57	29.794	72.5	73.4
3 42	29.776	75.0	76.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 8, 38, 39.	Z. D. thread D_1 used.
2.	Bisections at I, II.
6, 22.	Bisections at I, II, III.
7, 23.	Bisections at V, VI, VII.
8, 13, 20, 25, 35.	Bisections at VI, VII.
29.	Bisections at II, III, IV, V, VI.
30.	Bisections at II, VI, VII.
36.	Bisections at I, VII.
37.	Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 4.1	− 8.4	...	− 4.3
6	+ 2.4	−15 47.0	...	−15 44.6
7	+ 2.5	+15 46.9	...	+15 49.4
11	+ 3.4	....	− 0.1	+ 3.3
21	+ 3.9	− 8.2	...	− 4.3
22	+ 2.4	+15 46.7	...	+15 49.1
23	+ 2.3	−15 46.6	...	−15 44.3
25	+ 3.8	....	− 0.2	+ 3.6
29	+25 44.1	−16 13.6	...	+ 9 30.5
36	+ 3.8	− 8.0	...	− 4.2
37	+ 3.8	+ 8.0	− 0.5	+ 11.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	June 10, L.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N	9	10 42.34	− 0.14	**−18.98**	15 35 59.48	28.897	+ 15.3	**52.8**	5 10 23.22	+68.74	+23 14 41.8	....
2	Sun II, S........	9	12 59.82	− 0.14	**−18.98**	16 8 1.48	27.982	+ 15.9	**52.8**	5 12 40.70	−68.74	+22 43 5.3	....
3	α Orionis..........	9	50 11.77	− 0.19	−18.96	31 28 3.68	27.110	+ 33.4	53.8	5 49	.....	.. ..	....
4	α Canis Majoris....	9	41 9.34	− 0.25	19.01	55 23 59.28	30.492	+1 18.8	52.3	6 40	.....	.. ..	....
5	α² Geminorum	9	28 40.82	− 0.10	−18.95	6 44 2.30	30.310	+ 6.5	53.6	7 28	.....	.. ..	....
6	β Geminorum	9	39 39.24	− 0.11	−19.02	10 36 5.25	26.915	+ 10.2	54.0	7 39	.....	.. ..	....
7	ε Hydræ..........	9	41 55.43	− 0.16	−18.98	32 4 13.78	28.178	+ 34.0	54.6	8 41	.....	.. ..	....
8	θ Hydræ..........	9	9 36.33	− 0.17	−18.99	36 6 8.18	30.409	+ 39.6	54.4	9 9	.....	.. ..	....
9	α Lyncis	9	15 25.42	− 0.08	−18.99	4 2 6.78	29.799	+ 3.9	52.5	9 15	.....	.. ..	....
10	α Hydræ..........	9	23 6.66	− 0.20	−18.93	47 4 8.02	29.290	+ 58.2	53.5	9 22	.....	.. ..	....
11	Moon I, N.......	9	34 11.63	− 0.16	**−18.96**	29 48 9.90	28.594	+ 31.1	**53.7**	9 33 52.51	+67.20	+ 9 2 25.3	....
12	ε Leonis	9	40 37.74	− 0.12	−18.93	14 38 6.80	27.250	+ 14.2	53.7	9 40	.....	.. ..	....
	June 10, U.												
13	α Ursæ Minoris S. P.	9	23 58.83	− 7.26	[−19.97]	307 40	......	....	....	1 23	.....	.. ..	....
14	m Virginis	9	36 50.08	− 0.19	[−19.08]	47 4	......	....	....	13 36	.....	.. ..	....
	June 11, Br.												
15	Venus II, N......	9	32 27.80	− 0.23	**−19.50**	26 16 2.42	29.968	+ 27.4	**51.6**	2 32 8.07	− 0.55	+12 33 55.1	....
16	η Tauri	6	42 0.10	− 0.16	−19.49	15 2 5.32	29.975	+ 14.8	53.0	3 41	.....	.. ..	....
17	ζ Persei	7	48 18.80	− 0.11	−19.45	7 16	......	....	....	3 47	.....	.. ..	....
18	α Tauri	7	30 38.28	− 0.18	−19.51	22 32 5.30	28.509	+ 22.6	52.3	4 30	.....	.. ..	....
	June 12, Br.												
19	Sun I, N	9	18 59.81	− 0.15	**−19.47**	15 25 58.72	31.630	+ 15.0	**53.5**	5 18 40.19	+68.83	+23 23 25.7	....
20	Sun II, S........	9	21 17.46	− 0.15	**−19.46**	15 57 59.70	30.653	+ 15.6	**53.5**	5 20 57.85	−68.83	+22 51 52.0	....
21	α Orionis..........	9	50 12.21	− 0.21	−19.37	31 28 2.18	27.212	+ 33.1	55.0	5 49	.....	.. ..	....
22	α² Geminorum	7	28 41.40	− 0.10	−19.54	6 44 1.00	30.512	+ 6.4	55.5	7 28	.....	.. ..	....
23	α Canis Minoris....	9	34 30.79	− 0.20	−19.44	33 22 1.38	28.910	+ 35.4	53.3	7 34	.....	.. ..	....
24	β Geminorum	5	39 39.64	− 0.12	−19.42	10 34 3.08	31.268	+ 10.1	55.5	7 39	.....	.. ..	....
25	ε Hydræ..........	..	.. ..	....	.....	32 4 13.42	28.311	+ 33.6	55.4	8 41	.....	.. ..	....
26	δ Leonis	9	9 15.07	− 0.12	−19.40	17 46 3.80	31.254	+ 17.3	55.1	11 8	.....	.. ..	....
27	ν Ursæ Majoris....	9	13 32.39	− 0.08	−19.49	5 12 9.95	31.050	+ 5.0	53.9	11 13	.....	.. ..	....
28	Moon I, N.......	9	19 17.27	− 0.16	**−19.46**	38 40 9.75	28.927	+ 43.0	**54.6**	11 18 57.65	+64.00	+ 0 10 5.0	....
29	μ Leonis	9	32 17.46	− 0.16	−19.48	39 6 9.02	31.658	+ 43.8	55.3	11 31	.....	.. ..	....
30	β Leonis	9	44 25.17	− 0.13	−19.46	23 44 9.38	27.571	+ 23.7	54.2	11 44	.....	.. ..	....
	June 12, L.												
31	β Arietis	9	49 34.96	− 0.08	−20.02	18 32 11.55	26.092	+ 18.4	51.2	1 49	.....	.. ..	....
32	α Arietis	9	2 0.26	− 0.07	−19.99	15 52 10.10	25.866	+ 15.5	51.8	2 1	.....	.. ..	....
33	Venus I, N	4	36 52.72	− 0.12	**−19.99**	25 56 13.88	26.660	+ 26.5	**51.6**	2 36 32.61	+ 0.33	+12 55 18.7	....
34	Venus II, S......	5	36 53.69	− 0.12	**−19.99**	25 56 13.88	27.225	+ 26.5	**51.6**	2 36 33.58	− 0.64	+12 55 2.7	....
35	α Ceti.............	9	57 30.37	− 0.15	−19.98	35 8 12.10	28.336	+ 38.2	53.4	2 57	.....	.. ..	....
36	α Tauri	9	30 38.66	− 0.08	−19.97	22 32 13.00	28.182	+ 22.4	50.5	4 30	.....	.. ..	....
	June 13, L.												
37	Sun I, S.........	9	23 8.98	− 0.04	**−19.99**	15 56 7.02	26.707	+ 15.4	**52.7**	5 22 48.95	+68.98	+22 55 36.4	....
38	Sun II, N........	9	25 26.94	− 0.04	**−19.99**	15 24 4.25	27.665	+ 14.8	**52.7**	5 25 6.91	−68.98	+23 27 12.6	....
39	γ Geminorum	9	32 23.94	− 0.06	−20.04	22 22 6.25	28.048	+ 22.0	52.2	6 32	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
10 5 14	29.753	78.4	78.5
5 50	......	....	80.0
6 41	29.716	81.0	80.7
7 29	......	....	81.5
7 40	29.700	82.9	82.0
8 42	......	....	82.0
9 10	29.682	83.9	82.1
9 23	......	....	82.2
9 34	......	....	82.0
9 41	29.680	83.8	82.1
11 2 32	29.722	72.1	71.0
3 36	29.722	77.0	77.7
4 31	29.724	80.0	80.5
12 5 21	29.724	82.6	83.0
5 50	29.718	84.0	84.6
7 18	29.724	87.3	87.8
7 40	29.722	88.0	87.7
8 51	29.722	88.8	88.2
11 1	29.690	87.5	87.1
11 19	......	....	86.3
11 32	......	....	86.0
11 44	29.698	86.1	85.3
1 50	29.760	77.4	78.7
2 2	......	....	79.8
2 37	29.760	79.6	81.3
2 58	......	....	82.8
4 31	29.764	85.5	86.9
13 5 26	29.760	87.8	88.7
6 32	......	....	91.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 19, 37.	Bisections at I, II, III.
2, 20, 38.	Bisections at V, VI, VII.
4, 23, 24.	Bisections at VI, VII.
5, 7, 8, 16, 35, 39.	Z. D. thread D_1 used.
11, 28.	Bisections at II, III, IV, V, VI.
16.	Bisections at I, II, VI.
22, 34.	Bisections at II, VI.
31.	Bisections at II, VI, VII.
33.	Bisections at I, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 2.3	−15 48.2	...	−15 45.9
2	+ 2.4	+15 48.2	...	+15 50.6
11	+28 56.1	−15 58.0	...	+12 58.1
15	+ 3.7	− 8.1	...	− 4.4
19	+ 2.3	−15 46.8	...	−15 44.5
20	+ 2.4	+15 46.8	...	+15 49.2
28	+35 15.4	−15 27.6	...	+19 47.8
33	+ 3.6	− 8.2	...	− 4.6
34	+ 3.6	+ 8.2	− 0.4	+ 11.4
37	+ 2.4	+15 48.0	...	+15 50.4
38	+ 2.3	−15 48.1	...	−15 45.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Canis Majoris	9	41 10.23	− 0.15	−19.99	55 24 7.72	30.256	+1 17.2	53.1	6 40	.....	.. ..	....
2	α² Geminorum	9	28 41.78	0.00	−20.02	6 44 25.52	29.524	+ 6.3	54.2	7 28	.....	.. ..	....
3	β Geminorum	9	39 40.02	− 0.02	−19.90	10 36 16.92	26.510	+ 10.0	53.8	7 39	.....	.. ..	....
	June 14, S.												
4	η Virginis	9	15 16.22	− 0.16	−20.35	38 58 8.65	28.131	+ 43.8	53.8	12 14	.....	.. ..	....
5	δ² Scorpii	9	25 10.52	− 0.19	−20.34	54 48 7.68	29.041	+1 16.7	54.9	12 24	.....	.. ..	....
6	Moon I, N	9	57 45.94	− 0.18	**−20.36**	47 8 3.08	27.312	+ 58.5	**54.2**	12 57 25.40	+62.89	− 8 17 18.7	....
7	θ Virginis	9	5 15.58	− 0.17	−20.39	43 50 4.60	31.342	+ 52.2	53.0	13 4	.....	.. ..	....
8	α Virginis	9	20 24.99	− 0.18	−20.36	49 28 6.40	31.064	+1 3.6	55.0	13 20	.....	.. ..	....
	June 16, L.												
9	γ Ceti	8	38 36.67	− 0.24	−22.07	36 1 57.68	26.448	+ 40.7	52.8	2 38	.....	.. ..	....
10	α Ceti	9	57 32.62	− 0.24	−22.05	35 7 55.35	28.914	+ 39.4	52.6	2 57	.....	.. ..	....
11	η Tauri	9	42 2.77	− 0.15	−22.06	15 1 54.75	30.286	+ 15.0	51.7	3 41	.....	.. ..	....
12	α Tauri	9	30 40.90	− 0.22	−22.01	22 31 58.10	28.692	+ 23.1	51.1	4 30	.....	.. ..	....
	June 17, L.												
13	Sun I, N	8	39 47.81	− 0.17	**−22.05**	15 12 0.82	29.860	+ 15.1	**52.3**	5 39 25.59	+69.08	+23 38 12.6	....
14	Sun II, S	9	42 5.97	− 0.17	**−22.05**	15 43 59.65	28.975	+ 15.6	**52.3**	5 41 43.75	−69.08	+23 6 38.7	...
15	γ Geminorum	9	32 26.09	− 0.19	−22.04	22 22 1.80	28.151	+ 22.7	51.5	6 32	.....	.. ..	....
16	α Canis Majoris	9	41 12.52	− 0.33	−22.11	55 24 0.20	30.374	+1 19.7	52.3	6 40	.....	.. ..	....
17	α² Geminorum	9	28 43.91	− 0.08	−22.06	6 44 7.35	30.145	+ 6.5	52.6	7 28	.....	.. ..	....
18	β Geminorum	9	39 42.21	− 0.10	−22.01	10 36 8.40	26.798	+ 10.3	53.6	7 39	.....	.. ..	....
19	γ Scorpii	9	58 46.04	− 0.33	−22.20	63 41 58.80	31.119	+1 52.5	52.2	14 58	.....	.. ..	....
20	β Libræ	9	12 9.66	− 0.27	−22.25	47 52 1.92	27.302	+1 1.6	51.8	15 11	.....	.. ..	....
21	Moon I, N	9	25 51.36	− 0.31	**−22.22**	56 16 0.48	30.038	+1 23.6	**52.3**	15 25 28.83	+63.91	−17 27 0.3	....
22	α Serpentis	9	39 51.87	− 0.22	−22.22	32 6 0.70	29.558	+ 35.1	52.4	15 39	.....	.. ..	....
23	ε Serpentis	9	46 21.30	− 0.22	−22.20	34 4 1.38	28.748	+ 37.9	52.7	15 45	.....	.. ..	....
	June 17, S.												
24	β Arietis	9	49 37.44	− 0.20	−22.23	18 32 6.48	26.216	+ 18.9	50.9	1 49	.....	.. ..	....
25	α Arietis	9	2 2.71	− 0.18	−22.18	15 52 4.28	26.008	+ 16.0	50.9	2 1	.....	.. ..	....
26	Venus II, N	9	59 19.07	− 0.22	**−22.20**	24 12 6.10	27.819	+ 25.2	**51.7**	2 58 56.65	− 0.53	+14 38 54.9	....
27	ζ Persei	9	48 21.76	− 0.12	−22.25	7 16 7.15	27.225	+ 7.2	53.7	3 47	.....	.. ..	....
28	ε Persei	6	51 39.97	− 0.06	−22.12	359 8 6.25	27.428	− 0.8	52.5	3 51	.....	.. ..	....
29	α Tauri	9	30 41.11	− 0.21	−22.21	22 32 7.50	28.354	+ 23.1	50.9	4 30	.....	.. ..	....
	June 18, S.												
30	Sun I	8	43 57.70	− 0.16	**−22.20**	15 26	......	....	....	5 43 35.34	+68.81	.. ..	....
31	Sun II	9	46 15.32	− 0.16	**−22.20**	... .	......	....	....	5 45 52.96	−68.81	.. ..	....
32	α Canis Minoris	9	34 33.57	− 0.21	−22.21	33 22 13.20	28.375	+ 36.3	51.3	7 34	.....	.. ..	....
33	δ Scorpii	9	54 58.69	− 0.36	−22.43	61 10 6.18	28.504	+1 41.1	53.6	15 54	.....	.. ..	....
34	β¹ Scorpii	9	0 10.63	− 0.35	−22.45	58 22 8.28	28.059	+1 30.4	53.5	15 59	.....	.. ..	....
35	Moon I	9	16 47.00	− 0.36	**−22.45**	58 8	......	....	....	16 16 24.19	+64.40	.. ..	....
36	α Scorpii	9	23 50.50	− 0.38	−22.40	65 2 8.20	28.302	+1 59.5	52.3	16 23	.....	.. ..	....
37	η Ophiuchi	9	5 11.86	− 0.34	−22.49	54 26 1.92	28.472	+1 18.1	54.1	17 4	.....	.. ..	....
38	Uranus C, C	6	12 20.86	− 0.37	**−22.47**	61 54 4.35	27.938	+1 44.4	**53.4**	17 11 58.02	.....	−23 4 23.8	....
39	θ Ophiuchi	9	16 26 17	− 0.37	−22.50	63 44 7.85	26.782	+1 52.8	53.6	17 16	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
13	6	41	29.740	91.0	91.9
	7	29	......	....	93.0
	7	40	29.724	92.8	93.3
14	12	15	29.790	86.0	84.5
	12	25	29.790	85.6	84.0
	12	58	29.793	84.2	82.6
	13	20	29.792	83.3	81.9
16	2	39	29.684	66.8	65.8
	2	58	......	....	66.2
	3	42	29.714	76.3	68.0
	4	31	29.716	72.3	69.8
17	5	42	29.720	73.9	73.1
	6	32	......	....	74.9
	6	41	29.722	76.0	75.0
	7	29	......	....	76.9
	7	40	29.732	78.0	76.7
	14	59	29.834	71.4	70.1
	15	26	......	....	69.0
	15	46	29.836	70.1	68.6
	1	50	29.945	66.7	68.6
	2	2	29 949	67.4	68.2
	2	59	29.954	69.8	69.9
	3	52	29.960	74.1	71.5
	4	31	29.954	74.8	74.0
18	7	35	29.897	78.1	77.1
	15	55	29.805	70.6	69.0
	16	24	29.792	70.1	68.5
	17	5	29.785	69.7	68.0
	17	16	29.776	69.3	67.7

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 9, 11, 15, 17, 27, 28.	Z. D. thread D_1 used.
6.	Bisections at II, III, IV, VI.
13.	Bisections at I, II, III.
14.	Bisections at V, VI, VII.
21.	Bisections at II, III, IV, V, VI.
27, 28.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+40 19.5	−15 4.0	...	+25 15.5
13	+ 2.3	−15 46.9	...	−15 44.6
14	+ 2.3	+15 47.0	...	+15 49.3
21	+44 53.0	−14 46.0	...	+30 7.0
26	+ 3.3	− 7.7	...	− 4.4
38	+ 0.4	....	...	+ 0.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	June 19, R.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Scorpii	9	23 50.90	− 0.35	−22.83	65 2 5.42	28.374	+1 58.0	50.1	16 23	.....	.. ..	....
2	ζ Ophiuchi	7	32 12.35	− 0.29	−22.90	49 12	......	....	....	16 31	.....	.. ..	....
3	η Ophiuchi	9	5 12.27	− 0.31	−22.92	54 26 6.08	28.291	+1 17.2	52.2	17 4	.....	.. ..	....
4	Moon I, N.	9	8 24.44	− 0.34	−**22.90**	58 40 6.72	28.391	+1 30.6	**51.1**	17 8 1.20	+64.71	−19 50 27.8	....
5	θ Ophiuchi	9	16 26.56	− 0.35	−22.90	63 44 4.28	26.883	+1 51.6	51.7	17 16	.....	.. ..	....
6	α Ophiuchi	9	30 49.39	− 0.20	−22.91	26 12 6.65	29.645	+ 27.3	50.1	17 30	.....	.. ..	....
7	γ² Sagittarii	8	59 58.07	− 0.37	−22.92	69 13 59.05	28.718	+2 25.0	51.5	17 59	.....	.. ..	....
	June 19, L.												
8	γ Ceti	6	38 38.01	− 0.21	−23.36	36 2 0.02	26.312	+ 40.2	51.3	2 38	.....	.. ..	....
9	α Ceti	9	57 33.89	− 0.21	−23.28	35 8 1.88	28.611	+ 38.8	52.8	2 57	.....	.. ..	....
10	Venus I, S.	4	8 24.47	− 0.16	−**23.33**	23 32 2.32	29.275	+ 24.1	**51.7**	3 8 0.98	+ 0.35	+15 18 18.3	....
11	Venus II, N	5	8 25.47	− 0.16	−**23.33**	23 32 2.32	28.710	+ 24.1	**51.7**	3 8 1.98	− 0.65	+15 18 34.5	....
12	η Tauri	9	42 4.02	− 0.12	−23.27	15 2 3.15	30.008	+ 14.8	52.2	3 41	.....	.. ..	....
13	α Tauri	9	30 42.23	− 0.15	−23.35	22 32 6.28	28.395	+ 22.8	50.8	4 30	.....	.. ..	....
14	β Orionis	9	10 13.78	− 0.25	−23.37	47 10 4.72	26.448	+ 59.0	52.1	5 9	.....	.. ..	....
	June 20, L.												
15	Sun I, S.	9	52 17.56	− 0.12	−**23.31**	15 40 2.92	28.980	+ 15.4	**52.3**	5 51 54.13	+68.99	+23 10 35.3	....
16	Sun II, N.	8	54 35.55	− 0.12	−**23.31**	15 8 3.30	29.997	+ 14.8	**52.3**	5 54 12.12	−69.00	+23 42 6.7	....
17	α Canis Majoris	9	41 13.70	− 0.25	−23.35	55 24 2.60	30.289	+1 18.9	52.1	6 40	.....	.. ..	....
18	α² Geminorum	..	......	....	.....	6 44 5.95	30.170	+ 6.5	52.8	7 28	.....	.. ..	....
19	α Canis Minoris	9	34 34.60	− 0.17	−23.28	33 22 5.25	28.656	+ 35.8	51.1	7 34	.....	.. ..	....
20	β Geminorum	9	39 43.48	− 0.09	−23.29	10 36 8.18	26.760	+ 10.2	54.4	7 39	.....	.. ..	....
	June 21, U.												
21	κ Ophiuchi	9	53 28.99	− 0.24	[−23.85]	29 20	......	....	....	16 53	.....	.. ..	....
22	ε Ursæ Minoris	9	56 26.32	+ 1.62	[−23.89]	316 40	......	....	....	16 56	.....	.. ..	....
	June 21, S.												
23	η Ophiuchi	9	5 13.08	− 0.35	−23.68	54 26 4.50	28.279	+1 18.9	52.1	17 4	.....	.. ..	....
24	Uranus C, C	9	11 50.76	− 0.38	−**23.69**	61 54 6.45	26.574	+1 45.4	**50.7**	17 11 26.69	.....	−23 3 50.8	....
25	θ Ophiuchi	9	16 27.33	− 0.39	−23.61	63 44 6.25	26.718	+1 54.0	51.4	17 16	.....	.. ..	....
26	b Ophiuchi	9	20 51.11	− 0.38	−23.78	62 54 9.85	28.821	+1 50.1	50.7	17 20	.....	.. ..	....
27	γ² Sagittarii	9	59 58.93	− 0.41	−23.71	69 14 6.40	28.259	+2 28.4	49.1	17 59	.....	.. ..	....
28	Moon II, N.	8	54 20.85	− 0.37	−**23.74**	57 26 6.72	30.047	+1 28.8	**50.7**	18 53 56.74	−64.57	−18 37 13.6	....
29	Saturn I, S.	4	53 37.27	− 0.37	−**23.77**	59 46 6.25	28.905	+1 37.3	**50.7**	19 53 13.13	+ 0.70	−20 56 49.0	....
30	Saturn II, N.	5	53 38.67	− 0.37	−**23.77**	59 46 6.25	28.268	+1 37.3	**50.7**	19 53 14.53	− 0.70	−20 56 30.7	....
31	π Capricorni	9	22 10.22	− 0.36	−23.79	57 22 2.55	26.954	+1 28.6	50.9	20 21	.....	.. ..	....
32	ψ Capricorni	9	40 45.21	− 0.39	−23.83	64 26 5.50	28.672	+1 58.6	51.0	20 40	.....	.. ..	....
33	μ Aquarii	9	47 49.36	− 0.33	−23.81	48 12 9.72	25.681	+1 3.6	50.3	20 47	.....	.. ..	....
34	Jupiter I, S.	5	18 30.21	− 0.36	−**23.82**	55 20 7.95	29.075	+1 22.3	**50.7**	21 18 6.03	+ 1.62	−16 30 40.6	....
35	Jupiter II, N	5	18 33.45	− 0.36	−**23.82**	55 20 7.95	27.490	+1 22.2	**50.7**	21 18 9.27	− 1.62	−16 29 55.2	....
36	ζ Capricorni	9	21 31.59	− 0.38	−23.78	61 40 10.15	26.339	+1 45.4	50.4	21 21	.....	.. ..	....
	June 23, U.												
37	κ Ophiuchi	9	53 29.92	− 0.24	[−24.78]	29 20	......	....	....	16 53	.....	.. ..	....
38	ε Ursæ Minoris	9	56 27.68	+ 1.13	[−24.88]	316 40	......	....	....	16 56	.....	.. ..	....
	June 23, R.												
39	γ Aquilæ	9	42 4.11	− 0.23	−24.65	28 28 7.40	28.120	+ 31.1	51.7	19 41	.....	.. ..	....
40	Saturn I, N.	4	53 6.72	− 0.34	−**24.66**	59 48 7.42	27.365	+1 38.2	**51.3**	19 52 41.72	+ 0.66	−20 58 6.6	....
41	Saturn II, S	5	53 8.05	− 0.34	−**24.66**	59 48 7.42	27.935	+1 38.2	**51.3**	19 52 43.05	− 0.67	−20 58 22.8	....
42	θ Aquilæ	9	6 43.07	− 0.27	−24.66	39 58 6.72	25.769	+ 48.1	51.9	20 6	.....	.. ..	....
43	α² Capricorni	9	13 5.39	− 0.31	−24.68	51 42 6.15	25.255	+1 12.6	52.3	20 12	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
19 16 24	29.735	75.7	73.8
16 36	......	....	73.4
17 8	......	....	72.7
17 31	29.737	74.1	72.5
18 0	29.732	73.7	71.9
2 39	29.800	74.1	74.0
2 58	......	....	74.9
3 8	......	...	75.0
3 42	29.790	78.4	75.8
4 31	29.796	78.6	76.9
5 10	......	....	78.9
20 5 55	29.782	80.5	80.0
6 41	29.772	82.0	81.0
7 29	......	....	81.4
7 35	......	....	81.4
7 40	29.762	82.8	81.1
21 17 5	29.748	65.1	62.3
17 21	29.748	64.6	62.0
18 0	29.746	63.9	60.7
18 54	29.738	62.0	59.4
19 54	29.746	61.1	59.0
20 41	29.748	60.7	58.1
21 22	29.747	60.3	57.7
23 19 42	29.892	58.3	57.5
19 53	......	....	57.5
20 13	... ..	....	56.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 28.	Bisections at II, III, IV, V, VI.
5.	Bisections at II, VI, VII.
8, 9, 12, 18, 20.	Z. D. thread D₁ used.
10, 30, 35.	Bisections at I, VII.
11, 29, 34, 41.	Bisections at II, VI.
12.	Bisections at I, II, VI.
15.	Bisections at I, II, III.
16.	Bisections at V, VI, VII.
18.	Bisections at I, II.
40.	Bisection at I.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+46 0.0	−14 44.2	...	+31 15.8
10	+ 3.1	+ 8.3	− 0.4	+ 11.0
11	+ 3.1	− 8.3	...	− 5.2
15	+ 2.3	+15 45.7	...	+15 48.0
16	+ 2.3	−15 45.7	...	−15 43.4
24	+ 0.4	....	...	+ 0.4
28	+45 37.5	−14 48.8	...	+30 48.7
29	+ 0.9	+ 9.1	...	+ 10.0
30	+ 0.9	− 9.2	...	− 8.3
34	+ 1.6	+ 22.7	...	+ 24.3
35	+ 1.6	− 22.7	...	− 21.1
40	+ 0.9	− 8.1	...	− 7.2
41	+ 0.9	+ 8.1	...	+ 9.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	π Capricorni	9	22 11.11	− 0.33	−24.66	57 22 3.32	26.920	+1 29.6	51.7	20 21	.....	.. ..	....
2	Moon II, N	9	36 20.40	− 0.32	**−24.66**	52 48 5.65	27.096	+1 15.7	**51.3**	20 35 55.42	−63.81	−13 57 34.7	....
3	μ Aquarii	9	47 50.23	− 0.30	−24.66	48 12 6.50	25.780	+1 4.3	50.8	20 47	.....	.. ..	....
4	ζ Cygni	9	9 13.70	− 0.14	−24.63	9 2 6.02	26.852	+ 9.2	50.8	21 8	.....	.. ..	....
5	Jupiter I, N	4	18 6.08	− 0.32	**−24.65**	55 22 4.10	28.402	+1 23.6	**51.3**	21 17 41.11	+ 1.59	−16 32 18.1	....
6	Jupiter II, S	5	18 9.26	− 0.32	**−24.65**	55 22 4.10	29.928	+1 23.6	**51.3**	21 17 44.29	− 1.59	−16 33 1.7	....
7	β Aquarii	9	26 51.91	− 0.28	−24.66	44 50 4.28	28.320	+ 57.5	49.9	21 26	.....	.. ..	....
8	ξ Aquarii	9	32 59.99	− 0.29	−24.65	47 8 4.38	27.078	+1 2.4	51.2	21 32	.....	.. ..	....
	June 23, L.												
9	α Ceti	9	57 35.80	− 0.19	−25.11	35 8 8.70	28.341	+ 39.5	50.8	2 57	.....	.. ..	....
10	Venus I, S	4	26 50.92	− 0.14	**−25.05**	22 16 7.65	29.715	+ 23.0	**51.2**	3 26 25.73	+ 0.34	+16 34 1.0	....
11	Venus II, N	5	26 51.89	− 0.14	**−25.05**	22 16 7.65	29.185	+ 23.0	**51.2**	3 26 26.70	− 0.63	+16 34 16.2	....
12	η Tauri	7	42 5.89	− 0.11	−25.05	15 2 6.48	29.814	+ 15.1	50.5	3 41	.....	.. ..	....
13	ζ Persei	9	48 24.63	− 0.08	−25.01	7 16 8.68	27.168	+ 7.2	51.4	3 47	.....	.. ..	....
14	α Tauri	9	30 44.02	− 0.15	−25.06	22 32 9.18	28.261	+ 23.3	50.5	4 30	.....	.. ..	....
	June 24, L.												
15	Sun I, N	6	8 57.36	− 0.13	**−25.09**	15 8 6.80	30.955	+ 15.1	**51.2**	6 8 32.14	+68.98	+23 41 34.6	....
16	Sun II, S	9	11 15.32	− 0.13	**−25.09**	15 40 7.82	29.918	+ 15.7	**51.2**	6 10 50.10	−68.98	+23 10 2.5	....
17	α² Geminorum	8	28 47.00	− 0.10	−25.11	6 44 10.05	30.035	+ 6.6	52.9	7 28	.....	.. ..	....
18	γ Aquilæ	9	42 4.89	− 0.21	−25.43	28 28 10.45	28.049	+ 31.1	52.9	19 41	.....	.. ..	....
19	β Aquilæ	..	.. ..	....	.....	32 40 9.62	29.418	+ 36.8	52.8	19 50	.....	.. ..	....
20	Saturn S	..	.. ..	....	.....	59 48 13.15	29.520	+1 38.3	**52.8**	19 52	.....	−20 59 12.2	....
21	Saturn N	..	.. ..	....	.....	59 48 13.15	28.900	+1 38.3	**52.8**	.. ..	.....	−20 58 54.6	....
22	c Sagittarii	..	.. ..	....	.....	66 48 9.62	27.222	+2 13.1	52.3	19 56	.....	.. ..	....
23	α² Capricorni	9	13 6.10	− 0.29	−25.39	51 40 12.05	29.290	+1 12.5	53.2	20 12	.....	.. ..	....
24	π Capricorni	9	22 11.88	− 0.30	−25.44	57 22 11.65	26.659	+1 29.3	52.6	20 21	.....	.. ..	....
25	ψ Capricorni	9	40 46.88	− 0.33	−25.48	64 26 9.65	28.592	+1 59.4	53.9	20 40	.....	.. ..	....
26	μ Aquarii	9	47 51.00	− 0.27	−25.44	48 12 10.82	25.674	+1 4.1	52.1	20 47	.....	.. ..	....
27	Jupiter I, S	5	17 53.20	− 0.30	**−25.47**	55 24 12.20	28.252	+1 23.0	**52.8**	21 17 27.43	+ 1.69	−16 34 19.8	....
28	Jupiter II, N	5	17 56.58	0.30	**−25.47**	55 24 12.20	26.702	+1 23.0	**52.8**	21 17 30.81	− 1.69	−16 33 35.8	....
29	ζ Capricorni	9	21 33.26	− 0.32	−25.43	61 40 13.12	26.255	+1 46.2	52.6	21 21	.....	.. ..	....
30	Moon II, N	9	26 23.81	− 0.29	**−25.47**	49 24 12.40	28.382	+1 6.9	**52.8**	21 25 58.05	−63.54	−10 34 7.8	....
31	ξ Aquarii	9	33 0.83	0.27	−25.49	47 8 12.12	26.866	+1 1.7	52.4	21 32	.....	.. ..	....
	June 25, R.												
32	β Arietis	9	49 41.14	− 0.16	−25.72	18 32 5.28	26.218	+ 18.4	50.4	1 49	.....	.. ..	....
33	α Arietis	9	2 6.54	− 0.15	−25.79	15 52 4.05	25.995	+ 15.6	50.8	2 1	.....	.. ..	....
34	α Ceti	9	57 36.50	− 0.21	−25.73	35 8 2.78	28.596	+ 38.6	52.0	2 57	.....	.. ..	....
35	Venus I, N	4	36 11.34	− 0.17	**−25.76**	21 40 3.82	29.580	+ 21.8	**51.7**	3 35 45.41	+ 0.27	+17 10 10.3	....
36	Venus II, S	5	36 12.09	− 0.17	**−25.76**	21 40 3.82	30.122	+ 21.8	**51.7**	3 35 46.16	− 0.48	+17 9 55.0	....
37	η Tauri	9	42 6.74	− 0.14	−25.82	15 2 1.28	30.118	+ 14.8	51.4	3 41	.....	.. ..	....
38	ζ Persei	..	.. ..	....	.....	7 16 5.22	27.341	+ 7.0	52.7	3 47	.....	.. ..	....
39	α Tauri	9	30 44.82	− 0.17	−25.79	22 32 6.00	28.396	+ 22.7	50.8	4 30	.....	.. ..	....
40	β Orionis	9	10 16.19	− 0.25	−25.69	47 10 7.18	26.301	+ 58.8	51.3	5 9	.....	.. ..	....
41	β Tauri	9	20 32.71	− 0.12	−25.75	10 20 7.55	27.392	+ 10.0	52.7	5 20	.....	.. ..	....
42	α Orionis	9	50 18.74	− 0.20	−25.77	31 28 3.98	27.011	+ 33.3	52.5	5 49	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
23 20 22	......	....	55.9
20 36	29.894	57.2	55.7
20 48	......	....	55.0
21 9	......	....	54.3
21 18	......	....	53.2
21 33	29.895	54.8	52.1
2 58	29.916	64.3	68.0
3 27	......	....	68.3
3 42	......	....	68.0
3 48	29.922	68.4	68.1
4 31	29.918	70.1	69.0
24 6 11	29.904	72.8	71.6
9 17	......	....	73.7
19 42	29.788	58.3	55.7
19 57	......	....	55.2
20 22	29.776	57.4	55.2
20 48	......	....	55.0
21 33	29.760	56.7	54.7
25 1 50	29.384	68.8	70.2
2 2	......	....	70.3
2 58	29.390	70.3	70.7
3 36	......	....	71.3
3 48	29.404	72.2	71.7
4 31	29.419	73.5	73.0
5 10	29.416	74.5	74.1
5 21	......	....	74.5
5 50	29.416	75.9	75.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1.	Bisections at VI, VII.
2, 30.	Bisections at II, III, IV, V, VI.
5, 10, 20, 27, 35.	Bisections at I, VII.
6, 11, 21, 28, 29, 36.	Bisections at II, VI.
12, 17.	Z. D. thread D_1 used.
15.	Bisections at III, IV.
16.	Bisections at V, VI, VII.
17.	Bisections at I, II, VI.
19.	Bisections at I, II.
22.	Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+43 36.8	−14 59.4	...	+28 37.4
5	+ 1.6	− 21.8	...	− 20.2
6	+ 1.6	+ 21.8	...	+ 23.4
10	+ 2.9	+ 7.6	0.0	+ 10.5
11	+ 2.9	− 7.6	...	− 4.7
15	+ 2.3	−15 46.1	...	−15 43.8
16	+ 2.3	+15 46.0	...	+15 48.3
20	+ 0.9	+ 8.8	...	+ 9.7
21	+ 0.9	− 8.8	...	− 7.9
27	+ 1.6	+ 22.0	...	+ 23.6
28	+ 1.6	− 22.0	...	− 20.4
30	+41 55.7	−15 7.0	...	+26 48.7
35	+ 2.8	− 7.8	...	− 5.0
36	+ 2.8	+ 7.8	− 0.3	+ 10.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	June 26, R.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, S	9	17 16.82	— 0.14	**—25.77**	15 44 6.40	27.347	+ 15.3	**51.7**	6 16 50.91	+68.87	+23 7 17.8	....
2	Sun II, N	9	19 34.56	— 0.14	**—25.77**	15 12 5.15	28.320	+ 14.8	**51.7**	6 19 8.65	—68.87	+23 38 52.1	....
3	α Canis Majoris	9	41 16.16	— 0.28	—25.75	55 24 6.22	30.088	+ 1 18.6	50.8	6 40	.....	.. ..	....
4	α² Geminorum	9	28 47.74	— 0.11	—25.84	6 44 8.70	30.148	+ 6.5	52.1	7 28	.....	.. ..	....
5	β Geminorum	9	39 46.06	— 0.13	—25.81	10 36 9.18	26.765	+ 10.2	52.9	7 39	.....	.. ..	....
6	α Lyncis	9	15 32.18	— 0.10	—25.87	4 2 10.30	29.633	+ 3.9	50.4	9 15	.....	.. ..	....
7	α Hydræ	9	23 13.40	— 0.25	—25.73	47 4 8.30	29.189	+ 58.0	52.4	9 22	.....	.. ..	....
	June 30, L.												
8	η Tauri	9	42 9.26	— 0.08	—28.27	15 2 9.90	29.685	+ 14.9	50.5	3 41	.....	.. ..	....
9	ζ Persei	9	48 28.03	— 0.04	—28.26	7 16 8.98	27.090	+ 7.1	51.8	3 47	.....	.. ..	....
10	Venus I, N	4	59 53.78	— 0.11	**—28.28**	20 18 11.40	26.798	+ 20.5	**50.2**	3 59 25.39	+ 0.31	+18 33 21.8	....
11	Venus II, S	5	59 54.63	— 0.11	**—28.28**	20 18 11.40	27.300	+ 20.5	**50.2**	3 59 26.24	— 0.54	+18 33 7.7	....
12	α Tauri	9	30 47.37	— 0.12	—28.29	22 32 7.32	28.272	+ 23.0	49.3	4 30	.....	.. ..	....
13	ι Aurigæ	9	51 6.29	— 0.03	—28.33	5 50 6.70	29.152	+ 5.7	50.9	4 50	.....	.. ..	....
14	β Tauri	9	20 35.31	— 0.06	—28.30	10 20 9.72	27.195	+ 10.2	49.4	5 20	.....	.. ..	....
	July 1, L.												
15	Sun I, S	8	38 3.64	— 0.09	**—28.32**	15 58 8.02	27.340	+ 15.9	**50.2**	6 37 35.23	+68.83	+22 53 14.3	....
16	Sun II, N	9	40 21.29	— 0.09	**—28.32**	15 26 3.85	28.492	+ 15.3	**50.2**	6 39 52.88	—68.82	+23 24 46.6	....
17	α² Geminorum	4	28 50.19	— 0.04	—28.33	6 44 7.98	30.066	+ 6.6	51.2	7 28	.....	.. ..	....
18	α Canis Minoris	7	34 39.67	— 0.17	—28.31	33 22	......	....	....	7 34	.....	.. ..	....
19	μ Leonis	9	47 41.12	— 0.07	—28.46	12 22 9.42	29.961	+ 12.2	49.6	9 47	.....	.. ..	....
20	α Leonis	4	3 38.95	— 0.14	—28.33	26 24 6.02	28.322	+ 27.6	48.8	10 3	.....	.. ..	....
21	δ Leonis	9	9 23.81	— 0.10	—28.37	17 48 13.88	26.485	+ 17.9	50.5	11 8	.....	.. ..	....
	July 1, S.												
22	α Ceti	9	57 39.57	— 0.18	—28.67	35 8 11.20	28.089	+ 39.4	49.8	2 57	.....	.. ..	....
23	η Tauri	9	42 9.58	— 0.09	—28.55	15 2 6.72	29.758	+ 15.1	49.7	3 41	.....	.. ..	....
24	ζ Persei	9	48 28.48	— 0.05	—28.68	7 16 13.85	26.891	+ 7.2	51.2	3 47	.....	.. ..	....
25	ε Persei	5	51 46.82	— 0.00	—28.63	359 8 13.55	27.160	— 0.8	51.7	3 51	.....	.. ..	....
26	α Tauri	9	30 47.63	— 0.12	—28.52	22 32 11.22	28.070	+ 23.2	50.0	4 30	.....	.. ..	....
	July 2, S.												
27	Sun I, N	9	42 12.21	— 0.06	**—28.62**	15 30 5.40	28.493	+ 15.4	**50.3**	6 41 43.53	+68.75	+23 20 44.6	....
28	Sun II, S	9	44 29.72	— 0.06	**—28.62**	16 2 2.75	27.535	+ 15.9	**50.3**	6 44 1.04	—68.76	+22 49 14.4	....
29	β Geminorum	9	39 48.77	— 0.03	—28.59	10 36 11.15	26.598	+ 10.4	52.3	7 39	.....	.. ..	....
30	α Hydræ	9	23 16.16	— 0.13	—28.64	47 4 9.50	28.960	+ 59.0	51.1	9 22	.....	.. ..	....
31	ε Leonis	9	40 47.20	— 0.04	—28.65	14 38 2.25	27.208	+ 14.4	50.5	9 40	.....	.. ..	....
32	μ Leonis	9	47 41.28	— 0.03	—28.67	12 22 5.05	30.145	+ 12.1	47.9	9 47	.....	.. ..	....
33	α Leonis	9	3 39.18	— 0.07	—28.64	26 24 5.68	28.335	+ 27.3	48.5	10 3	.....	.. ..	....
	July 4, S.												
34	α Ceti	9	57 41.18	— 0.14	—30.23	35 8 10.45	28.182	+ 38.2	51.0	2 57	.....	.. ..	....
35	η Tauri	9	42 11.27	— 0.03	—30.21	15 2 6.10	29.781	+ 14.6	49.4	3 41	.....	.. ..	....
36	ζ Persei	8	48 30.03	— 0.02	—30.16	7 16 10.32	27.020	+ 6.9	51.0	3 47	.....	.. ..	....
37	ε Persei	9	51 48.42	+ 0.09	—30.22	359 8 9.08	27.310	— 0.8	51.5	3 51	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
26 6 20	29.416	76.0	75.9
6 41	29.420	76.7	77.0
7 29	29.435	78.6	78.1
7 40	......	....	78.1
9 16	29.445	81.2	79.7
9 23	......	....	79.8
9 38	29.449	81.5	....
30 3 42	29.774	73.7	73.2
3 48	......	....	73.3
4 0	......	....	73.3
4 31	29.806	75.1	73.0
4 51	......	....	72.9
5 21	29.822	75.0	72.4
1 6 40	29.832	75.1	73.8
7 29	......	...	74.2
9 23	29.876	76.0	73.2
9 48	......	..	73.3
10 4	......	....	73.8
11 9	29.894	75.1	72.8
2 58	30.080	69.5	73.0
3 42	......	....	74.0
3 52	30.090	73.2	74.1
4 31	30.103	76.8	74.6
2 6 44	30.106	80.0	79.8
7 40	30.099	81.4	80.9
9 23	30.065	82.6	81.6
9 41	30.060	82.2	81.3
9 48	......	....	81.7
10 4	30.063	82.3	81.7
4 2 58	29.854	80.0	85.3
3 42	......	....	86.1
3 52	29.858	84.7	86.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 15, 27.	Bisections at I, II, III.
2, 16, 28.	Bisections at V, VI, VII.
6, 9.	Bisections at II, VI, VII.
8, 9, 13, 17, 19, 22, 23, 24, 25, 26, 29, 30, 31, 34, 35, 36, 37.	Z. D. thread D_1 used.
10.	Bisections at I, VII.
11.	Bisections at II, VI.
20.	Bisections at I, II, VII.
25, 32, 37.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 2.3	+15 47.1	...	+15 49.4
2	+ 2.3	—15 47.2	...	—15 44.9
10	+ 2.5	— 7.1	...	— 4.6
11	+ 2.5	+ 7.1	— 0.1	+ 9.5
15	+ 2.4	+15 46.1	...	+15 48.5
16	+ 2.3	—15 46.1	...	—15 43.8
27	+ 2.3	—15 45.1	...	—15 42.8
28	+ 2.4	+15 45.0	...	+15 47.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Venus I, S.......	4	19 12.89	− 0.05	**−30.22**	19 18 27.58	28.532	+ 19.0	**51.0**	4 18 42.62	+ 0.33	+19 32 16.3	....
2	Venus II, N	5	19 13.79	− 0.05	**−30.22**	19 18 27.58	28.018	+ 19.0	**51.0**	4 18 43.52	− 0.57	+19 32 30.8	....
3	Mercury C, C....	9	48 39.84	− 0.07	**−30.24**	19 52 9.72	29.575	+ 19.5	**51.0**	5 48 9.53	− 0.21	+18 58 6.3	....
	July 5, S.												
4	Sun I, N	9	54 37.23	− 0.06	**−30.26**	15 44 9.58	29.467	+ 15.1	**51.0**	6 54 6.91	+68.55	+23 6 13.7	....
5	Sun II, S........	9	56 54.34	− 0.06	**−30.26**	16 16 9.50	28.437	+ 15.7	**51.0**	6 56 24.02	−68.56	+22 34 42.9	....
6	β Geminorum	9	39 50.46	− 0.04	−30.25	10 36 19.42	26.308	+ 10.1	51.9	7 39	.....	.. ..	....
7	α Leonis..........	7	3 40.90	− 0.11	−30.34	26 24 4.18	28.438	+ 26.4	51.5	10 3	.....	.. ..	....
	July 8, U.												
8	κ Ophiuchi........	9	53 29.88	− 0.14	[−24.84]	29 20	......	....	....	16 53	.....	.. ..	....
9	ε Ursæ Minoris....	5	56 26.24	+ 1.30	[−24.92]	316 40	......	....	....	16 56	.....	.. ..	....
	July 8, S.												
10	α Tauri............	9	30 43.90	− 0.13	−24.62	22 32 10.45	28.095	+ 22.6	49.9	4 30	.....	.. ..	....
11	Venus I, S.......	4	38 42.57	− 0.10	**−24.60**	18 26 9.98	29.750	+ 18.2	**51.6**	4 38 17.87	+ 0.31	+20 24 3.0	....
12	Venus II, N	5	38 43.39	− 0.10	**−24.60**	18 26 9.98	29.232	+ 18.2	**51.6**	4 38 18.69	− 0.51	+20 24 17.6	....
13	β Orionis..........	9	10 15.27	− 0.24	−24.56	47 10 4.10	26.259	+ 58.4	51.4	5 9	.....	.. ..	....
14	β Tauri............	8	20 31.76	− 0.05	−24.59	10 20 7.62	27.318	+ 9.9	52.8	5 20	.....	.. ..	....
15	ε Orionis..........	9	31 40.14	− 0.21	−24.60	40 6 11.98	28.608	+ 45.5	52.1	5 31	.....	.. ..	....
	July 9, S.												
16	Sun I, S..........	8	10 58.01	− 0.08	**−24.55**	16 40 1.72	30.573	+ 16.2	**51.6**	7 10 33.38	+68.35	+22 9 49.5	....
17	Sun II, N	9	13 14.71	− 0.08	**−24.55**	16 8 1.72	31.705	+ 15.6	**51.6**	7 12 50.08	−68.35	+22 41 18.3	....
18	Moon I............	9	58 31.29	− 0.14	**−24.48**	36 53	......	....	....	10 58 6.67	+65.41	.. ..	....
19	δ Leonis	3	9 19.81	− 0.06	−24.49	17 48 4.68	26.799	+ 17.2	52.0	11 8	.....	.. ..	....
20	β Leonis	9	44 29.82	− 0.09	−24.46	23 44 8.30	27.378	+ 23.6	51.2	11 44	.....	. .. .	....
	July 10, U.												
21	κ Ophiuchi........	9	53 29.61	− 0.24	[−24.47]	29 20	......	....	....	16 53	.....	.. ..	....
22	ε Ursæ Minoris....	8	56 25.01	+ 1.68	[−24.28]	316 40	......	....	....	16 56	.....	.. ..	....
	July 10, L.												
23	α Tauri	9	30 43.88	− 0.19	−24.49	22 32 2.40	28.440	+ 23.3	50.3	4 30	.....	.. ..	....
24	ι Aurigæ..........	9	51 2.78	− 0.10	−24.51	5 49 57.88	29.502	+ 5.8	51.9	4 50	.....	.. ..	....
25	β Tauri	9	20 31.76	− 0.12	−24.47	10 20 1.75	27.499	+ 10.2	52.5	5 20	.....	.. ..	....
26	α Orionis..........	9	50 17.62	− 0.20	−24.41	31 28 1.95	27.005	+ 34.2	52.7	5 49	.....	.. ..	....
27	Mercury C, C....	9	55 49.61	− 0.15	**−24.46**	18 57 58.75	26.702	+ 19.2	**51.8**	5 55 25.00	− 0.17	+19 53 40.2	....
	July 11, L.												
28	Sun I, N	9	19 8.68	− 0.13	**−24.44**	16 24 3.12	29.013	+ 16.4	**51.8**	7 18 44.11	+68.37	+22 26 32.5	....
29	Sun II, S........	9	21 25.43	− 0.13	**−24.44**	16 56 3.05	28.097	+ 17.0	**51.8**	7 21 0.86	−68.38	+21 54 58.6	....
30	α Hydræ	9	23 12.09	− 0.23	−24.50	47 4 3.82	29.146	+ 59.5	52.3	9 22	.....	.. ..	....
31	α Leonis	9	3 34.93	− 0.16	−24.35	26 24 2.42	28.530	+ 27.5	51.2	10 3	.....	.. ..	....
32	γ¹ Leonis	8	14 59.95	− 0.12	−24.39.	18 30 2.12	29.850	+ 18.6	52.0	10 14	.....	.. ..	....
33	η Virginis	9	15 20.07	− 0.24	−24.41	38 57 58.82	28.248	+ 44.7	52.3	12 14	.....	.. ..	....
34	δ² Corvi............	9	25 14.42	− 0.29	−24.45	54 47 57.72	29.192	+1 18.3	52.5	12 24	.....	.. ..	....
35	Moon I, N	9	40 15.10	− 0.27	**24.43**	45 27 58.32	27.251	+ 56.2	**51.8**	12 39 50.40	+63.58	− 6 37 11.8	....
36	ε Virginis	9	57 44.51	− 0.20	−24.43	27 22 0.32	27.586	+ 28.7	51.5	12 57	.....	.. ..	....
37	θ Virginis	9	5 19.42	− 0.26	−24.42	43 52 1.45	27.054	+ 53.2	50.4	13 4	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
4 4 19	29.864	86.5	87.1
5 49	29.862	89.3	89.7
5 6 57	29.848	91.0	91.6
7 40	29.853	90.2	89.0
10 4	29.802	94.1	93.8
8 4 31	29.904	84.0	84.9
4 39	......	....	85.0
5 10	29.918	87.2	86.4
5 21	......	....	86.9
5 32	29.910	88.0	87.5
9 7 13	29.894	90.4	89.7
11 9	29.837	93.1	92.0
11 44	29.818	92.1	89.3
10 4 31	30.014	72.8	71.2
4 51	......	....	72.0
5 21	......	....	72.0
5 50	30.030	76.8	72.9
5 56	......	....	73.0
11 7 21	30.018	77.0	74.8
9 23	30.000	79.4	76.1
10 4	......	....	76.4
10 15	29.990	79.8	76.9
12 15	29.964	79.8	76.8
12 40	......	....	76.2
13 5	29.970	78.8	76.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 2, 6, 7, 10, 13, 14, 15, 19, 20, 24, 25, 30, 32, 33.	Z. D. thread D₁ used.
1, 11.	Bisections at II, VI.
2, 12.	Bisections at I, VII.
3.	Bisections at II, VI, VII.
4, 16, 28.	Bisections at I, II, III.
5, 17, 29.	Bisections at V, VI, VII.
7.	Bisections at I, II, VII.
14, 15, 34.	Bisections at VI, VII.
35.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 2.4	+ 7.3	− 0.1	+ 9.6
2	+ 2.4	− 7.3	...	− 4.9
3	+ 4.5	....	− 0.9	+ 3.6
4	+ 2.3	−15 45.4	...	−15 43.1
5	+ 2.4	+15 45.3	...	+15 47.7
11	+ 2.2	+ 7.3	0.0	+ 9.5
12	+ 2.2	− 7.3	...	− 5.1
16	+ 2.5	+15 44.4	...	+15 46.9
17	+ 2.4	−15 44.3	...	−15 41.9
27	+ 3.7	....	− 0.4	+ 3.3
28	+ 2.4	−15 46.9	...	15 44.5
29	+ 2.5	+15 46.9	...	+15 49.4
35	+39 45.4	−15 16.5	...	+24 28.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	July 12, S.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Virginis	9	57 44.29	— 0.23	—24. 20	27 22 7.10	27.345	+ 28.4	51. 2	12 57	.....	.. ..	....
2	α Virginis	9	20 28.66	— 0.29	—24. 21	49 28 12.32	30.735	+1 4.2	53. 7	13 20	.....	.. ..	....
3	Moon I, N	9	29 42.33	— 0.30	**—24.19**	49 20 4.88	29.743	+1 3.9	**52.4**	13 29 17.84	+63.37	—10 30 36.5	....
4	η Bootis	9	50 27.61	— 0.21	—24. 16	19 58 11.62	26.931	+ 20.0	51.7	13 50	.....	.. ..	....
5	κ Virginis	9	8 7.21	- 0.29	—24. 20	48 38 12.78	30.782	+1 2.6	52. 9	14 7	.....	.. ..	....
	July 13, Br.												
6	κ Virginis	9	8 7.30	— 0.29	—24. 30	48 38 10.22	30.904	+1 2.3	53. 7	14 7	.....	.. ..	....
7	λ Virginis	9	14 15.73	— 0.30	—24. 32	51 44 12.30	30.910	+1 9.5	53. 6	14 13	.....	.. ..	....
8	Moon I, N	9	19 8.52	— 0.31	**—24. 32**	52 42 12.62	26.524	+1 11.9	**53.4**	14 18 43.89	+63.51	—13 51 19.5	....
9	ε Bootis	9	41 9.21	— 0.20	—24. 36	11 22 9.72	27.345	+ 11.1	52. 4	14 40	.....	.. ..	....
10	α² Libræ	9	45 54.98	— 0.30	—24. 32	54 28 5.65	28.470	+1 17.0	54. 1	14 45	.....	.. ..	....
	July 13, R.												
11	η Tauri	8	42 5.75	— 0.18	—24. 28	15 2 12.15	29.684	+ 14.9	51. 3	3 41	.....	.. ..	....
12	ζ Persei	9	48 24.53	— 0.14	—24. 27	7 16 13.60	27.012	+ 7.1	52. 3	3 48	.....	.. ..	....
13	α Tauri	9	30 43.80	— 0.22	—24. 30	22 32 13.58	28.036	+ 22.9	49. 7	4 30	.....	.. ..	....
14	Venus I, N	3	3 34.70	— 0.19	**—24.26**	17 34 13.58	26.178	+ 17.4	**51.7**	5 3 10.25	+ 0.29	+21 17 41.9	....
15	Venus II, S.	5	3 35.45	— 0.19	**—24.26**	17 34 13.58	26.648	+ 17.4	**51.7**	5 3 11.00	— 0.46	+21 17 28.6	....
16	β Orionis	9	10 15.20	— 0.32	—24. 31	47 10 13.80	25.908	+ 59.1	50. 4	5 9	.....	.. ..	....
17	β Tauri	7	20 31.64	— 0.16	—24. 24	10 20 15.20	27.094	+ 10.1	51.9	5 20	.....	.. ..	....
18	ε Orionis	9	31 39.90	— 0.29	—24. 18	40 6 15.45	28.540	+ 46.2	52. 6	5 31	....	.. ..	....
19	α Orionis	9	50 17.58	— 0.26	—24. 26	31 28 12.12	26.658	+ 33.5	52. 5	5 49	.....	.. ..	...
	July 14, R.												
20	Sun I, N	9	31 21.30	— 0.19	**—24. 20**	16 47 53.15	31.470	+ 16.4	**51. 7**	7 30 56.91	+68.11	+22 1 32.3	....
21	Sun II, S	9	33 37.53	— 0.19	**—24. 20**	17 19 58.72	30.337	+ 17.0	**51. 7**	7 33 13.14	—68.12	+21 29 59.0	....
22	α Hydæ	9	23 11.81	— 0.32	—24. 14	47 3 54.30	29.620	+ 57.9	52. 7	9 22	.....	.. ..	....
23	γ¹ Leonis	8	14 59.72	— 0.20	—24. 09	18 29 55.08	30.187	+ 18.1	51.6	10 14	.....	.. ..	....
24	δ Leonis	8	9 19.55	— 0.19	—24. 15	17 47 55.45	27.212	+ 17.3	52. 2	11 8	.....	.. ..	....
25	α Bootis	9	11 38.02	— 0.25	—24. 15	19 7 59.05	31.129	+ 18.9	51. 5	14 11	.....	.. ..	....
26	α² Libræ	9	45 54.88	— 0.36	—24. 17	54 27 56.28	28.784	+1 16.2	52. 9	14 45	.....	.. ..	....
27	γ Scorpii	9	58 47.84	— 0.39	—24. 14	63 41 52.68	31.391	+1 50.1	51. 5	14 58	.....	.. ..	....
28	Moon I, N	9	9 1.56	— 0.37	**—24.17**	55 21 54.10	29.904	+1 19.0	**52. 3**	15 8 37.02	+63.88	—16 32 45.5	....
29	α Serpentis	9	39 53.78	— 0.29	—24. 20	32 5 56.70	29.632	+ 34.4	53. 1	15 39	.....	.. ..	....
30	δ Scorpii	9	55 0.38	— 0.38	—24. 18	61 9 56.92	28.859	+1 39.3	52. 7	15 54	.....	.. ..	....
31	β¹ Scorpii	9	0 12.29	— 0.37	—24. 17	58 21 55.10	28.521	+1 28.8	52. 2	15 59	.....	.. ..	....
	July 14, L.												
32	α Tauri	9	30 43.99	— 0.22	—24.47	22 32 2.15	28.452	+ 22.6	50. 0	4 30	.....	.. ..	....
33	Venus I, N	4	8 36.21	— 0.20	**—24.46**	17 24 6.68	28.355	+ 17.0	**51.2**	5 8 11.55	+ 0.34	+21 26 46.6	....
34	Venus II, S.	5	8 37.11	— 0.20	**—24.46**	17 24 6.68	28.802	+ 17.0	**51.2**	5 8 12.45	— 0.56	+21 26 34.0	....
35	β Orionis	9	10 15.46	— 0.32	—24. 55	47 10 6.25	26.195	+ 58.4	50. 4	5 9	.....	.. ..	....
36	β Tauri	9	20 31.88	— 0.16	—24.46	10 20 8.28	27.288	+ 9.9	52.7	5 20	.....	.. ..	....
37	α Orionis	5	50 17.69	— 0.25	—24. 36	31 28 7.80	26.830	+ 33.1	52.7	5 49	.....	.. ..	....
38	α Canis Majoris	..	.. ..	.. .	.....	55 24 5.80	29.968	+1 18.0	50.4	6 40	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
12 12 58	29.854	80.9	79.3
13 20	29.853	80.0	78.1
13 30	......	....	78.0
13 50	......	....	77.1
14 8	29.854	78.0	76.0
13 14 4	29.894	82.0	79.9
14 24	......	....	78.9
14 51	29.894	79.8	77.1
3 42	29.944	73.7	76.6
3 48	......	....	76.8
4 31	29.944	76.3	78.1
5 4	......	....	79.6
5 10	......	....	80.3
5 21	......	....	79.9
5 32	29.953	81.5	81.0
5 50	......	....	82.0
6 10	29.948	83.0	....
14 7 34	29.936	86.0	86.9
9 23	29.908	89.1	89.4
10 15	29.896	89.8	89.3
11 9	29.880	91.2	90.1
14 12	29.837	85.7	83.6
14 46	......	....	81.9
14 59	......	....	81.3
15 9	29.840	82.7	80.8
15 40	......	....	79.5
16 0	29.846	80.9	78.9
4 31	29.738	79.2	80.3
5 10	29.750	82.7	83.0
5 21	... ..	....	83.4
5 50	......	....	85.1
6 8	29.746	86.0	86.4
6 41	......	....	86.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 8, 28.	Bisections at II, III, IV, V, VI.
5, 21.	Bisections at V, VI, VII.
12, 35, 37.	Bisections at VI, VII.
14, 33.	Bisections at I, VII.
15, 34.	Bisections at II, VI.
18, 23.	Bisections at II, VI, VII.
20.	Bisections at I, II, III.
36.	Z. D. thread D_1 used.
38.	Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+41 47.8	—15 5.0	...	+26 42.8
8	+43 23.8	—14 56.1	...	+28 27.7
14	+ 2.1	— 6.7	...	— 4.6
15	+ 2.1	+ 6.7	— 0.1	+ 8.7
20	+ 2.5	—15 46.6	...	—15 44.1
21	+ 2.6	+15 46.6	...	+15 49.2
28	+44 35.9	—14 49.9	...	+29 46.0
33	+ 2.0	— 6.3	...	— 4.3
34	+ 2.0	+ 6.3	0.0	+ 8.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	July 15, L.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Scorpii	9	55 0.63	− 0.31	−24.51	61 10 7.32	28.519	+1 38.4	52.5	15 54	.....	.. ..	....
2	Moon I, N	9	59 37.83	− 0.31	**−24.54**	57 18 7.20	29.630	+1 24.5	**52.7**	15 59 12.98	+64.32	−18 28 55.9	....
3	δ Ophiuchi	9	9 40.49	− 0.25	−24.50	42 16 6.22	29.968	+ 49.4	53.0	16 9	.....	.. ..	....
4	ζ Ophiuchi	9	32 13.97	− 0.27	−24.56	49 12 4.25	28.667	+1 3.0	51.9	16 31	.....	.. ..	....
5	η Ophiuchi	..	.. ..	....	.....	54 26 1.68	28.460	+1 16.1	52.6	17 4	.....	.. ..	....
6	Uranus C	..	.. ..	....	.....	61 48 4.65	30.318	+1 41.4	**52.7**	17 8	.....	−22 59 29.7	....
7	*d* Sagittarii	9	12 22.91	− 0.30	−24.60	57 58 6.35	26.364	+1 27.2	53.3	19 11	.....	.. ..	....
	July 15, S.												
8	ζ Persei	9	48 24.73	− 0.14	−24.41	7 16 3.60	27.292	+ 7.1	52.9	3 48	.....	.. ..	....
9	α Tauri	9	30 43.87	− 0.21	−24.33	22 32 4.58	28.316	+ 22.9	51.3	4 30	.....	.. ..	....
10	ι Aurigæ	9	51 2.80	− 0.13	−24.36	5 50 4.88	29.281	+ 5.7	52.5	4 50	.....	.. ..	....
11	Venus I, S	4	13 38.31	− 0.19	**−24.38**	17 15 59.98	28.040	+ 17.2	**52.6**	5 13 13.74	+ 0.31	+21 35 3.7	....
12	Venus II, N	5	13 39.13	− 0.19	**−24.38**	17 15 59.98	27.540	+ 17.1	**52.6**	5 13 14.56	− 0.51	+21 35 17.9	....
13	β Tauri	9	20 31.86	− 0.16	−24.42	10 20 6.72	27.364	+ 10.1	53.5	5 20	.....	.. ..	....
14	Mercury II, C	9	12 3.41	0.21	**−24.38**	17 54 6.90	30.580	+ 17.8	**52.6**	6 11 38.82	− 0.28	+20 55 43.7	....
	July 16, S.												
15	Sun I, S	9	39 27.66	− 0.21	**−24.38**	17 40 12.20	26.757	+ 17.5	**52.6**	7 39 3.07	+67.89	+21 11 27.4	....
16	Sun II, N	9	41 43.44	− 0.21	**−24.38**	17 8 10.82	27.920	+ 16.9	**52.6**	7 41 18.85	−67.89	+21 42 56.8	....
17	α Canum Venat	9	51 52.61	− 0.09	−24.48	0 0 8.55	28.548	+ 0.1	51.5	12 51	.....	.. ..	....
18	α Virginis	9	20 28.76	− 0.36	−24.28	49 28 16.32	30.518	+1 3.8	53.8	13 20	.....	.. ..	....
19	α Scorpii	9	23 52.42	− 0.39	−24.37	65 2 0.05	28.595	+1 58.0	50.4	16 23	.....	.. ..	....
20	ζ Ophiuchi	9	32 13.84	− 0.33	−24.38	49 12 6.45	28.544	+1 3.9	51.5	16 31	.....	.. ..	....
21	Moon I, N	9	50 57.44	− 0.37	**−24.38**	58 24 3.30	29.413	+1 29.9	**51.4**	16 50 32.69	+64.68	−19 34 52.5	....
22	η Ophiuchi	9	5 13.83	− 0.35	−24.40	54 26 2.75	28.366	+1 17.5	52.3	17 4	.....	.. ..	....
23	Uranus C	..	.. ..	....	.....	61 48 8.75	29.770	+1 43.3	**51.4**	17 8	.....	−22 59 21.2	....
	July 16, R.												
24	β Orionis	9	10 15.47	− 0.34	−24.49	47 10 2.82	26.261	+ 59.3	50.2	5 9	.....	.. ..	....
25	Venus I, N	4	18 41.46	− 0.21	**−24.38**	17 8 4.15	27.378	+ 17.0	**51.0**	5 18 16.87	+ 0.32	+21 43 16.8	....
26	Venus II, S	5	18 42.29	− 0.21	**−24.38**	17 8 4.15	27.878	+ 17.0	**51.0**	5 18 17.70	− 0.51	+21 43 2.7	....
27	δ Orionis	9	27 25.73	− 0.31	−24.35	39 14 6.42	25.557	+ 44.7	51.8	5 27	.....	.. ..	....
28	α Orionis	9	50 17.71	− 0.28	−24.31	31 28 5.40	26.835	+ 33.3	50.9	5 49	.....	.. ..	....
29	Mercury C, C	7	16 24.72	− 0.22	**−24.38**	17 42 10.02	29.698	+ 17.3	**51.0**	6 16 0.12	− 0.13	+21 8 4.6	....
	July 17, R.												
30	Sun S	..	.. ..	....	.....	17 50 5.20	26.663	+ 17.3	**51.2**	7 44	.....	+21 1 35.9	....
31	Sun N	..	.. ..	....	.....	17 18 1.50	27.777	+ 16.7	**51.2**	.. ..	.....	+21 33 9.0	....
32	α Hydræ	9	23 11.95	− 0.27	−24.33	47 4 0.48	29.398	+ 57.2	52.2	9 22	.....	.. ..	....
33	γ^1 Leonis	9	14 59.96	− 0.18	−24.36	18 30 2.45	29.908	+ 17.8	50.7	10 14	.....	.. ..	....
34	δ Leonis	9	9 19.77	− 0.17	−24.41	17 47 59.18	27.058	+ 17.1	51.3	11 8	.....	.. ..	....
35	ζ Ophiuchi	9	32 13.79	− 0.29	−24.38	49 12 1.85	28.799	+1 2.6	53.0	16 31	.....	.. ..	....
36	κ Ophiuchi	9	53 29.45	− 0.24	−24.35	29 18 1.32	30.274	+ 30.4	54.0	16 53	.....	.. ..	....
37	Uranus C, C	9	7 50.03	− 0.33	**−24.35**	61 48 0.15	29.886	+1 40.7	**53.2**	17 7 25.35	.....	−22 59 11.7	....
38	θ Ophiuchi	9	16 28.06	− 0.33	−24.34	63 42 1.38	31.325	+1 49.3	52.6	17 16	.....	.. ..	....
39	*b* Ophiuchi	9	20 51.67	− 0.33	−24.32	62 53 57.65	29.492	+1 45.6	52.8	17 20	.....	.. ..	....
40	α Ophiuchi	9	30 50.90	− 0.22	−24.35	26 12 0.78	29.758	+ 26.7	52.0	17 30	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
15 15 55	29.672	83.8	80.8
17 8	29.670	80.6	78.8
19 12	29.682	78.4	77.0
3 48	29.800	75.7	75.1
4 31	29.790	76.3	75.3
4 51	29.796	77.0	75.7
5 14	29.798	78.0	76.1
5 21	29.796	78.6	76.9
6 12	29.808	79.3	77.8
16 7 42	29.810	81.0	79.5
12 52	29.820	85.0	82.3
13 20	29.826	83.0	81.0
16 24	29.840	76.2	75.5
16 32	......	...	75.4
16 51	29.838	75.9	73.6
5 10	29.852	75.9	77.3
5 19	......	...	78.8
5 27	......	....	79.9
5 50	......	....	83.3
6 0	29.856	81.7	....
6 16	29.855	83.2	86.0
17 7 45	29.826	88.0	90.2
9 23	29.798	93.0	93.5
10 15	29.778	95.0	95.1
11 9	29.763	96.0	95.1
16 32	29.780	87.0	85.2
16 53	......	....	85.0
17 8	......	....	84.4
17 21	......	....	84.0
17 31	29.783	85.5	83.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 21.	Bisections at II, III, IV, V, VI.
3, 23.	Bisections at VI, VII.
4, 27, 39.	Bisections at II, VI, VII.
5.	Bisections at I, II, VI.
8, 9, 10, 13, 17, 18.	Z. D. thread D_1 used.
11, 26.	Bisections at II, VI.
12, 25.	Bisections at I, VII.
15, 30.	Bisections at I, II, III.
16, 31.	Bisections at V, VI, VII.
17.	Bisections at I, II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+45 26.1	−14 46.4	...	+30 39.7
6	+ 0.4	....	...	+ 0.4
11	+ 2.0	+ 7.1	0.0	+ 9.1
12	+ 2.0	− 7.1	...	− 5.1
14	+ 3.1	....	− 0.2	+ 2.9
15	+ 2.6	+15 44.6	...	+15 47.2
16	+ 2.5	−15 44.7	...	−15 42.2
21	+45 56.1	−14 45.4	...	+31 10.7
23	+ 0.4	....	...	+ 0.4
25	+ 2.0	− 7.1	...	− 5.1
26	+ 2.0	+ 7.1	− 0.1	+ 9.0
29	+ 3.0	....	− 0.1	+ 2.9
30	+ 2.6	+15 46.5	...	+15 49.1
31	+ 2.6	−15 46.6	...	−15 44.0
37	+ 0.4	....	...	+ 0.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Moon I, N.......	9	42 48.97	− 0.33	**−24.37**	58 36 2.32	29.732	+1 28.6	**53.2**	17 42 24.27	+64.86	−19 46 57.5	....
2	γ² Sagittarii........	9	59 59.72	− 0.35	−24.39	69 14 1.12	28.868	+2 22.1	53.7	17 59	.....	.. ..	....
3	μ Sagittarii........	9	8 22.84	− 0.32	−24.41	59 53 59.22	29.628	+1 33.4	54.0	18 7	.....	.. ..	....
4	σ Sagittarii........	9	49 40.21	− 0.34	−24.41	65 14 9.88	28.340	+1 57.5	52.8	18 49	.....	.. ..	....
5	d Sagittarii........	9	12 22.78	− 0.32	−24.43	57 58 11.00	26.241	+1 26.7	54.1	19 11	.....	.. ..	....
6	Vesta	9	32 2.36	− 0.33	**−24.42**	62 44 11.85	27.731	+1 45.4	**53.1**	19 31 37.61	.....	−23 54 26.7	....
7	Saturn I, N.......	4	46 1.90	− 0.32	**−24.42**	60 8 12.20	28.430	+1 34.8	**53.1**	19 45 37.16	+ 0.62	−21 18 36.4	....
8	Saturn II, S	5	46 3.13	− 0.32	**−24.42**	60 8 12.20	29.125	+1 34.8	**53.1**	19 45 38.39	− 0.61	−21 18 56.3	....
9	c Sagittarii........	9	57 6.80	− 0.34	−24.37	66 48 8.92	27.442	+2 6.6	51.4	19 56	.....	.. ..	....
10	π Capricorni.......	9	22 11.34	− 0.31	−24.47	57 22 14.12	26.700	+1 25.0	53.3	20 21	.....	.. ..	....
11	ψ Capricorni.......	9	40 46.36	− 0.33	−24.47	64 26 11.38	28.710	+1 53.5	53.9	20 40	.....	.. ..	....
12	μ Aquarii..........	9	47 50.47	− 0.29	−24.44	48 12 11.55	25.690	+1 0.9	52.9	20 47	.....	.. ..	....
13	Jupiter I, N......	5	9 47.08	− 0.31	**−24.43**	56 4 8.50	29.762	+1 20.9	**53.1**	21 9 22.34	+ 1.72	−17 14 56.8	....
14	Jupiter II, S	5	9 50.52	− 0.31	**−24.43**	56 4 8.50	31.432	+1 21.0	**53.1**	21 9 25.78	− 1.72	−17 15 44.6	....
15	ζ Capricorni	9	21 32.74	− 0.33	−24.35	61 40 10.22	26.532	+1 40.9	53.7	21 21	.....	.. ..	....
16	ξ Aquarii..........	9	33 0.33	− 0.28	−24.45	47 8 14.15	26.820	+ 58.7	53.4	21 32	.....	.. ..	....
	July 17, Br.												
17	α Tauri............	9	30 44.19	− 0.20	−24.61	22 32 0.12	28.560	+ 22.5	51.2	4 30	.....	.. ..	....
18	ι Aurigæ	9	51 3.08	− 0.14	−24.57	5 50 0.65	29.510	+ 5.6	52.4	4 50	.....	.. ..	....
19	β Orionis..........	9	10 15.49	− 0.26	−24.57	47 10 6.80	26.238	+ 58.0	52.4	5 9	.....	.. ..	....
20	β Tauri	9	20 32.12	− 0.16	−24.63	10 20	......	....	....	5 20	.....	.. ..	....
21	Venus II, N	9	23 46.32	− 0.18	**−24.60**	17 0 0.02	28.892	+ 16.5	**52.2**	5 23 21.54	− 0.47	+21 50 39.5	....
22	Venus S..........	..	.. ..	....	.....	17 0 0.02	29.345	+ 16.5	**52.2**	.. ..	.....	+21 50 26.7	....
23	ε Orionis..........	9	31 40.39	− 0.24	−24.64	40 6 0.62	29.075	+ 45.1	52.7	5 31	.....	.. ..	....
	July 21, R.												
24	ν Cygni	9	53 59.66	− 0.11	−24.71	358 4 3.52	27.339	− 1.8	51.9	20 53	.....	.. ..	....
25	61¹ Cygni	9	2 58.98	− 0.12	−24.81	0 36 5.25	25.770	+ 0.6	52.7	21 2	.....	.. ..	....
26	Moon II, N.......	7	10 53.21	− 0.37	**−24.76**	50 40 4.42	26.643	+1 7.8	**52.1**	21 10 28.08	−63.78	−11 49 11.9	....
27	ζ Capricorni	9	21 33.30	− 0.40	−24.76	61 40 3.65	26.628	+1 43.0	52.1	21 21	.....	.. ..	....
28	ξ Aquarii..........	9	33 0.78	− 0.34	−24.76	47 8 4.62	27.034	+1 0.0	51.7	21 32	.....	.. ..	....
	July 21, Br.												
29	ι Aurigæ..........	7	51 3.55	− 0.12	−24.94	5 49 58.15	29.565	+ 5.7	51.4	4 50	.....	.. ..	....
30	ε Orionis..........	9	31 40.80	− 0.28	−24.93	40 6 2.60	28.968	+ 46.5	53.5	5 31	.....	.. ..	....
31	Venus II, N......	9	44 9.82	− 0.17	**−24.96**	16 36 2.88	29.342	+ 16.5	**52.3**	5 43 44.69	− 0.46	+22 14 23.9	....
32	Venus S.........	..	.. ..	....	.....	16 36 2.88	29.790	+ 16.5	**52.3**	.. ..	.... .	+22 14 11.3	. ..
33	θ Aurigæ..........	3	53 29.02	− 0.09	−25.02	1 38 6.75	30.182	+ 1.6	52.2	5 53	.....	.. ..	....
34	Mercury II, C....	9	43 33.83	0.17	**−24.96**	16 52 2.90	27.699	+ 16.7	**52.3**	6 43 8.70	− 0.24	+21 59 10.6	....
	July 22, Br.												
35	Sun I, S.........	5	3 33.58	− 0.17	**−24.96**	18 44 4.40	27.605	+ 18.6	**52.3**	8 3 8.45	+67.59	+20 7 10.1	....
36	Sun II...........	7	5 48.75	− 0.17	**−24.96**	18 28	......	....	....	8 5 23.62	−67.58	.. ..	....
37	α Leonis	9	3 35.58	− 0.19	−25.00	26 24 3.45	28.536	+ 27.2	52.3	10 3	.....	.. ..	....
38	β Leonis	8	44 30.27	− 0.18	−24.95	23 44 3.05	27.641	+ 24.1	51.9	11 44	.....	.. ..	....
39	δ² Corvi............	9	25 14.77	− 0.27	−24.95	54 47 59.98	29.109	+1 17.5	52.6	12 24	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
17 17 43	....	....	84.0
18 0	....	....	83.6
18 8	29.788	84.9	83.4
18 50	....	....	82.2
19 12	29.791	83.6	81.8
19 32	....	....	81.1
19 46	....	....	80.6
19 57	....	....	80.5
20 22	....	....	80.5
20 41	....	....	81.0
20 48	29.802	82.3	81.1
21 10	....	....	81.3
21 22	....	....	81.0
21 33	29.804	82.3	80.8
4 31	29.834	84.8	86.0
4 51	....	....	87.0
5 10	29.844	87.6	89.0
5 28	....	....	90.3
5 32	29.848	90.2	91.1
21 20 54	29.683	71.3	68.9
21 11	....	....	68.5
21 22	....	....	68.3
21 33	29.682	70.4	68.1
4 51	29.750	73.5	73.0
5 32	29.764	75.7	74.2
6 44	29.780	78.8	76.2
22 8 7	29.782	81.0	78.8
10 4	29.776	81.0	79.7
11 45	29.772	82.0	79.0
12 25	29.772	81.2	78.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 26, 35.	Bisections at III, IV, V.
7, 13, 21, 31.	Bisections at I, VII.
8, 14, 22, 32.	Bisections at II, VI.
29.	Bisections at VI, VII.
33.	Bisections at I, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+46 5.6	−14 46.5	...	+31 19.1
6	+ 6.7	....	...	+ 6.7
7	+ 0.9	− 9.9	...	− 9.0
8	+ 0.9	+ 10.0	...	+ 10.9
13	+ 1.7	− 23.9	...	− 22.2
14	+ 1.7	+ 23.9	...	+ 25.6
21	+ 1.9	− 6.4	...	− 4.5
22	+ 1.9	+ 6.4	0.0	+ 8.3
26	+42 40.5	−15 6.3	...	+27 34.2
31	+ 1.9	− 6.3	...	− 4.4
32	+ 1.9	+ 6.3	0.0	+ 8.2
34	+ 2.5	....	0.0	+ 2.5
35	+ 2.8	+15 46.4	...	+15 49.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	July 22, U.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Groombridge 750 S. P.	9	6 15.36	— 3.17	[−24.83]	304 10	......	....	....	4 5	.....	.. ..	....
2	σ Scorpii	9	15 42.86	— 0.40	[—24.92]	64 10	......	....	....	16 15	.....	.. ..	....
3	τ Scorpii	9	30 16.13	— 0.41	[—25.03]	66 50	......	....	....	16 29	.....	.. ..	....
	July 22, Br.												
4	d Sagittarii........	9	12 23.42	— 0.38	—24.98	57 57 58.90	26.514	+1 29.7	52.9	19 11	.....	.. ..	....
5	δ Aquilæ..........	9	21 2.28	— 0.31	—24.93	35 56 3.25	26.302	+ 40.8	52.3	19 20	.....	.. ..	....
6	Vesta	9	27 11.19	— 0.39	**24.96**	63 14 2.72	29.235	+1 51.3	**51.7**	19 26 45.84	.....	24 25 7.8	....
7	β Sagittæ	9	37 7.53	- 0.27	—24.93	21 36 5.22	27.267	+ 22.3	50.8	19 36	.....	.. ..	....
8	Saturn I, N......	4	44 29.60	— 0.39	**-24.96**	60 12 2.00	29.262	+1 38.2	**51.7**	19 44 4.25	+ 0.70	—21 22 54.7	....
9	Saturn II, S	5	44 31.00	- 0.39	**—24.96**	60 12 2.00	29.895	+1 38.2	**51.7**	19 44 5.65	— 0.70	—21 23 12.9	....
10	β Aquilæ..........	9	50 58.83	— 0.30	—24.98	32 40 2.78	29.466	+ 36.1	51.7	19 50	.....	.. ..	....
11	Isis	9	1 41.53	-- 0.42	**—24.96**	69 36 2.68	26.965	+2 30.6	**51.7**	20 1 16.15	.....	—30 46 42.3	....
12	Jupiter N........	..	.. ..	....	.....	56 16 5.48	27.918	+1 24.6	**51.7**	21 7	.....	—17 26 6.3	....
13	Jupiter S	..	.. ..	....	.....	56 16 5.48	29.562	+1 24.7	**51.7**	.. ..	.....	—17 26 53.4	....
14	ξ Aquarii..........	9	33 1.01	— 0.36	—24.96	47 8 4.15	26.998	+1 1.0	51.3	21 32	.....	.. ..	....
15	ε Pegasi	9	39 51.11	0.31	—24.95	29 26 4.32	25.662	+ 32.0	51.7	21 39	.....	.. ..	....
16	μ Capricorni.......	9	48 26.21	— 0.38	—25.06	52 50 6.92	28.842	+1 14.6	51.5	21 48	.....	.. ..	....
17	Moon II, N	9	1 8.57	— 0.37	**—25.00**	46 52 5.90	31.046	+1 0.4	**51.7**	22 0 43.20	—63.61	— 8 3 11.9	....
18	θ Aquarii...	9	12 8.55	— 0.37	—25.00	47 6 9.10	28.190	+1 0.8	51.7	22 11	.....	.. ..	....
	July 22, S.												
19	ζ Persei	9	48 25.52	— 0.20	—24.91	7 15 55.52	27.530	+ 7.2	52.1	3 48	.....	.. ..	....
20	ε Persei	9	51 43.99	— 0.15	—24.94	359 8 2.82	27.540	— 0.8	52.1	3 51	.....	.. ..	....
21	α Tauri	9	30 44.63	— 0.27	24.84	22 32 8.80	28.170	+ 23.2	52.3	4 30	.....	.. ..	....
22	ι Aurigæ..........	9	51 3.59	— 0.18	—24.89	5 50 4.90	29.272	+ 5.8	52.4	4 50	.....	.. ..	....
23	Venus I, S.......	4	49 16.44	— 0.21	**—24.91**	16 32 6.58	28.650	+ 16.6	**52.4**	5 48 51.32	+ 0.28	+22 18 40.1	....
24	Venus II, N	5	49 17.15	-- 0.21	**—24.91**	16 32 6.58	28.210	+ 16.6	**52.4**	5 48 52.03	— 0.43	+22 18 52.5	....
25	Mercury C, C....	8	50 0.50	— 0.19	**—24.92**	16 44 5.68	30.286	+ 16.8	**52.4**	6 49 35.39	— 0.08	+22 5 54.1	....
	July 23, S.												
26	Sun I, N.........	9	7 32.59	— 0.18	**—24.93**	18 24 0.45	28.623	+ 18.4	**52.4**	8 7 7.48	+67.38	+20 26 44.8	....
27	Sun II, S........	9	9 47.34	— 0.18	**—24.93**	18 56 0.28	27.662	+ 19.0	**52.4**	8 9 22.23	—67.37	+19 55 12.5	....
28	δ Leonis	9	9 20.28	— 0.18	-24.96	17 48 5.58	26.799	+ 17.7	53.2	11 8	.....	.. ..	....
29	η Aquarii..........	9	30 47.88	- 0.30	—24.98	39 28 3.05	27.069	+ 46.3	52.9	22 30	.....	.. ..	....
30	ζ Pegasi	9	37 3.07	— 0.27	—24.97	28 32 3.25	26.506	+ 30.6	51.2	22 36	.....	.. ..	....
31	Moon II, N......	9	51 17.28	— 0.32	**—24.96**	42 42 3.70	28.067	+ 51.9	**51.8**	22 50 52.00	—63.77	— 3 51 36.2	....
32	α Pegasi	9	0 21.25	-- 0.26	—24.94	24 10 0.55	27.890	+ 25.3	50.8	22 59	.....	.. ..	....
33	φ Aquarii..........	9	9 43.27	— 0.32	—24.95	45 24 4.92	29.275	+ 57.1	52.5	23 9	.....	.. ..	....
	July 23, R.												
34	β Orionis..........	9	10 16.07	— 0.28	—24.99	47 10 3.40	26.195	+ 59.4	50.2	5 9	.....	.. ..	....
35	α Orionis..........	9	50 18.49	— 0.23	—24.99	31 28 3.08	26.911	+ 33.7	51.9	5 49	.....	.. ..	....
36	Venus I, N	4	54 24.65	-- 0.18	**—25.02**	16 28 3.30	28.655	+ 16.3	**50.5**	5 53 59.45	+ 0.26	+22 22 41.5	....
37	Venus II, S......	5	54 25.29	— 0.18	**—25.02**	16 28 3.30	29.115	+ 16.3	**50.5**	5 54 0.09	- 0.38	+22 22 28.5	....
38	γ Geminorum	9	32 29.56	— 0.20	—25.01	22 21 59.65	28.182	+ 22.6	49.0	6 32	.....	.. ..	....
39	α Canis Majoris....	9	41 15.84	— 0.30	—25.09	55 23 59.40	30.082	+1 19.5	50.3	6 40	.....	.. ..	....
	July 24, R.												
40	Sun I, N	9	11 31.07	— 0.18	**—24.98**	18 35 58.20	29.180	+ 18.5	**50.5**	8 11 5.91	+67.34	+20 14 29.2	....
41	Sun II, S........	9	13 45.75	— 0.18	**—24.98**	19 7 55.55	28.362	+ 19.0	**50.5**	8 13 20.59	-67.34	+19 42 55.4	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
22	19	7	29.880	68.4	66.2
	19	27	......	....	65.7
	19	55	29.888	67.8	65.8
	[illegible]	2	......	....	65.1
	21	7	29.882	65.5	63.1
	21	40	......	....	63.1
	22	4	......	....	64.1
	22	12	29.882	65.1	64.1
	3	52	29.968	68.0	69.9
	4	31	29.972	70.3	71.0
	4	51	29.976	71.5	72.7
	5	49	29.996	75.8	74.0
	6	50	29.997	76.1	75.1
23	8	10	29 996	78.2	77.4
	11	9	29.977	82.0	79.9
	22	31	29.950	69.9	68.0
	22	37	......	....	68.0
	22	51	... ..	.. .	67.7
	23	0	......	....	67.6
	23	10	29.942	69.0	67.2
	5	10	29.975	76.1	78.0
	5	46	29.980	78.7	79.1
	5	54	......	....	79.3
	6	32	29.980	81.0	80.3
	6	41	......	....	80.8
24	8	14	29.958	82.7	81.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7, 38.	Bisections at II, VI, VII.
8, 12, 24, 36.	Bisections at I, VII.
9, 13, 23, 37.	Bisections at II, VI.
17, 31.	Bisections at II, III, IV, V, VI.
19, 20.	Bisections at VI, VII.
19, 20, 21, 22, 28.	Z. D. thread D₁ used.
26, 40.	Bisections at I, II, III.
27, 41.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 6.6	....	...	+ 6.6
8	+ 0.9	— 9.1	...	— 8.2
9	+ 0.9	+ 9.1	...	+ 10.0
11	+ 9.0	....	...	+ 9.0
12	+ 1.8	— 23.5	...	— 21.7
13	+ 1.8	+ 23.6	...	+ 25.4
17	+40 37.0	—15 14.0	...	+25 23.0
23	+ 1.9	+ 6.2	0.0	+ 8.1
24	+ 1.9	— 6.2	...	— 4.3
25	+ 2.4	....	0.0	+ 2.4
26	+ 2.7	—15 46.1	...	—15 43.4
27	+ 2.8	+15 46.1	...	+15 48.9
31	+38 4.1	—15 22.5	...	+22 41.6
36	+ 1.8	— 6.5	...	— 4.7
37	+ 1.8	+ 6.5	0.0	+ 8.3
40	+ 2.8	—15 46.9	...	—15 44.1
41	+ 2.8	+15 46.9	...	+15 49.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Leonis	9	9 20.26	— 0.16	—24.96	17 47 52.70	27.275	+ 17.5	51.2	11 8	.....	.. ..	....
2	β Leonis	9	44 30.21	— 0.18	—24.90	23 43 56.45	27.829	+ 23.9	50.5	11 44	.....	.. ..	....
3	ι Piscium	9	35 23.11	— 0.35	—25.04	33 43 53.12	29.792	+ 37.6	53.2	23 34	.....	.. ..	....
4	Moon II, N	9	41 53.26	— 0.38	**—25.01**	38 15 54.80	27.878	+ 44.4	**51.4**	23 41 27.87	—64.33	+ 0 34 45.2	....
5	ω Piscium	9	54 45.13	— 0.35	—25.00	32 31 54.00	26.531	+ 35.9	51.2	23 54	.....	.. ..	....
6	33 Piscium	9	0 47.48	— 0.39	—24.99	45 5 54.40	26.935	+ 56.5	51.5	0 0	.....	.. ..	....
7	γ Pegasi	9	8 39.74	— 0.32	—25.01	24 11 56.08	28.831	+ 25.4	49.8	0 8	.....	.. ..	....
	July 27, U.												
8	Groombridge 750 S.P.	9	6 17.00	— 2.84	[—25.52]	304 10	......	....	....	4 5	.....	.. ..	....
9	β Herculis	9	26 28.64	— 0.12	[—25.45]	17 6	......	....	....	16 26	.....	.. ..	....
	July 31, U.												
10	Groombridge 750 S.P.	9	6 19.28	— 3.48	[—25.92]	304 10	......	....	....	4 5	.....	.. ..	....
11	σ Scorpii	9	15 43.82	— 0.35	[—26.04]	64 10	......	....	....	16 15	.....	.. ..	....
12	τ Scorpii	9	30 16.94	— 0.37	[—25.97]	66 50	......	....	....	16 29	.....	.. ..	....
	July 31, L.												
13	κ Orionis	9	43 34.02	— 0.24	—26.09	48 31 59.78	29.169	+1 2.5	50.8	5 43	.....	.. ..	....
14	α Orionis	5	50 19.66	— 0.17	—26.04	31 28 2.75	26.856	+ 33.8	53.2	5 49	.....	.. ..	....
15	θ Aurigæ	9	53 30.30	— 0.00	—26.12	1 38 3.92	30.202	+ 1.6	51.8	5 53	.....	.. ..	....
16	Venus I, N	4	35 45.85	— 0.09	**—26.11**	16 20 5.58	27.850	+ 16.2	**51.9**	6 35 19.65	+ 0.33	+22 31 3.8	....
17	Venus II, S.	5	35 46.65	— 0.09	**—26.11**	16 20 5.58	28.242	+ 16.2	**51.9**	6 35 20.45	— 0.47	+22 30 52.5	....
18	α Canis Majoris	9	41 17.01	— 0.26	—26.17	55 24 7.20	29.786	+1 19.7	51.5	6 40	.....	.. ..	....
	August 1, L.												
19	Sun I, S.	9	42 58.87	— 0.10	**—26.12**	20 58 4.40	27.622	+ 21.1	**51.9**	8 42 32.65	+66.69	+17 53 6.2	....
20	Sun II, N.	9	45 12.26	— 0.10	**—26.12**	20 26 3.30	28.625	+ 20.5	**51.9**	8 44 46.04	—66.70	+18 24 40.1	....
21	β Leonis	9	44 31.24	— 0.10	—26.07	23 44 1.55	27.606	+ 23.9	51.6	11 44	.....	.. ..	....
22	γ Corvi	8	11 14.06	— 0.21	—26.16	55 49 59.58	28.245	+1 19.6	51.9	12 10	.....	.. ..	....
23	α Virginis	9	20 30.27	— 0.19	—26.17	49 30 3.12	26.771	+1 3.6	52.4	13 20	.....	.. ..	....
	August 1, Br.												
24	β Eridani	9	3 29.78	— 0.26	—26.16	44 2 2.28	30.431	+ 53.4	51.4	5 3	.....	.. ..	....
25	β Orionis	9	10 17.51	— 0.27	—26.22	47 10 2.48	26.235	+ 59.5	52.0	5 9	.....	.. ..	....
26	β Tauri	9	20 34.02	— 0.08	—26.20	10 20 6.18	27.441	+ 10.1	53.0	5 20	.....	.. ..	...
27	δ Orionis	9	27 27.84	— 0.23	—26.18	39 14 3.35	25.575	+ 45.0	51.8	5 27	.....	.. ..	....
28	Venus I, N	4	40 57.19	— 0.12	**—26.18**	16 22 4.48	27.450	+ 16.1	**52.2**	6 40 30.89	+ 0.32	+22 29 16.5	....
29	Venus II, S.	5	40 57.97	— 0.12	**—26.18**	16 22 4.48	27.878	+ 16.2	**52.2**	6 40 31.67	— 0.46	+22 29 4.4	....
	August 2, Br.												
30	Sun I, N	9	46 52.10	— 0.14	**—26.17**	20 40 5.30	30.770	+ 20.6	**52.2**	8 46 25.79	+66.59	+18 9 36.4	....
31	Sun II, S	9	49 5.28	— 0.14	**—26.17**	21 12 1.45	30.123	+ 21.2	**52.2**	8 48 38.97	—66.59	+17 37 58.8	....
32	δ Leonis	6	9 21.29	— 0.10	—26.10	17 48 3.98	26.931	+ 17.4	52.4	11 8	.....	.. ..	....
33	β Leonis	8	44 31.38	— 0.12	—26.20	23 44 1.78	27.704	+ 23.8	52.2	11 44	.....	.. ..	....
34	γ Corvi	9	11 14.07	— 0.22	—26.17	55 50 2.02	28.190	+1 19.4	52.7	12 10	.....	.. ..	....
35	α Canum Venat.	9	51 53.93	— 0.01	—26.17	0 0 11.90	28.554	+ 0.1	52.0	12 51	.....	.. ..	....
	August 2, U.												
36	Groombridge 750 S.P.	9	6 20.26	— 3.63	[—26.14]	304 10	......	....	....	4 5	.....	.. ..	....
37	σ Scorpii	9	15 43.99	— 0.32	[—26.26]	64 10	......	....	....	16 15	.....	.. ..	....
38	τ Scorpii	9	30 17.13	— 0.34	[—26.21]	66 50	......	....	....	16 29	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
24 11 9	29.906	85.3	83.7
11 45	29.900	85.6	84.1
23 29	29.856	68.8	66.4
23 42	......	....	66.2
0 1	......	....	65.4
0 9	29.858	67.1	65.1
31 5 44	29.864	76.3	75.2
5 54	......	....	75.3
6 36	......	....	77.0
6 41	29.866	79.8	77.2
1 8 45	29.860	80.9	79.0
11 45	29.804	85.2	84.1
12 11	......	....	84.8
13 21	29.800	85.0	82.2
5 2	29.834	74.8	75.1
5 21	......	....	76.1
5 27	......	....	76.1
5 51	29.848	76.8	....
6 41	29.856	80.0	79.1
2 8 50	29.860	83.9	82.5
11 9	29.818	87.1	85.7
11 45	......	....	86.0
12 11	29.808	88.0	86.1
13 1	29.802	86.9	85.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 16, 29.	Bisections at II, VI.
4.	Bisections at II, III, IV, V, VI.
14, 15, 21, 22, 34.	Z. D. thread D, used.
15.	Bisections at VI, VII.
17, 28.	Bisections at I, VII.
19, 30.	Bisections at I, II, III.
20, 31.	Bisections at V, VI, VII.
27.	Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+35 5.9	—15 31.8	...	+19 34.1
16	+ 1.8	— 5.7	+ 0.1	— 3.8
17	+ 1.8	+ 5.7	...	+ 7.5
19	+ 3.1	+15 46.9	...	+15 50.0
20	+ 3.0	—15 46.9	...	—15 43.9
28	+ 1.8	— 6.1	+ 0.1	— 4.2
29	+ 1.8	+ 6.1	...	+ 7.9
30	+ 3.1	—15 48.8	...	—15 45.7
31	+ 3.1	+15 48.8	...	+15 51.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	August 3, U.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Groombridge 750 S. P.	9	6 20.67	− 3.54	[−26. 36]	304 10	......	....	....	4 5	.....	.. ..	....
2	ρ Ophiuchi	9	20 12.70	− 0.29	[−26. 47]	62 2	......	....	....	16 19	.....	.. ..	....
	August 3, R.												
3	β Orionis	9	10 17.76	− 0.27	−26. 42	47 10 12.28	25.871	+ 58.9	51. 2	5 9	.....	.. ..	....
4	β Tauri	9	20 34.32	− 0.06	−26.46	10 20 13.52	27.155	+ 10.0	52. 1	5 20	.....	.. ..	....
5	ε Orionis	9	31 42.50	− 0.23	−26. 38	40 6 11.35	28.582	+ 46.0	52. 6	5 31	.....	.. ..	....
6	α Orionis	8	50 20.03	− 0.18	−26. 34	31 28 12.80	26.550	+ 33.4	52. 0	5 49	.....	.. ..	....
7	Venus I, N	3	51 20.09	− 0.10	**−26.38**	16 28 11.85	26.150	+ 16.1	**51.9**	6 50 53.61	+ 0.33	+22 23 45.9	....
8	Venus II, S	5	51 20.87	− 0.10	**−26.38**	16 28 11.85	26.612	+ 16.1	**51.9**	6 50 54.39	− 0.45	+22 23 32.9	....
9	α² Geminorum	9	28 48.69	− 0 04	−26. 37	6 44 15.05	30.040	+ 6.5	52. 3	7 28	.....	.. ..	....
10	β Geminorum	8	39 46.97	− 0.06	−26. 37	10 34 16.32	30.788	+ 10.2	52.4	7 39	.....	.. ..	....
11	Mercury C, C	9	25 47.35	− 0.10	**−26.38**	18 13 59.40	28.670	+ 17.9	**51.9**	8 25 20.87	− 0.01	+20 36 44.8	....
	August 4, R.												
12	Sun I, S	9	54 36.93	− 0.12	**−26.38**	21 44 0.32	28.183	+ 21.6	**51.9**	8 54 10.43	+66.34	+17 6 53.8	....
13	Sun II, N	8	56 49.61	− 0.12	**−26.38**	21 11 58.95	29.107	+ 21.0	**51.9**	8 56 23.11	−66.34	+17 38 30.2	....
14	α Leonis	9	3 36.92	− 0.13	−26. 40	26 24 1.00	28.626	+ 26.8	52. 1	10 3	.....	.. ..	....
15	γ¹ Leonis	9	15 1.94	− 0.09	−26. 45	18 29 58.55	30.045	+ 18.1	50. 4	10 14	.....	.. ..	....
16	β Leonis	9	44 31.54	− 0.10	−26. 40	23 43 58.95	27.765	+ 23.8	51. 1	11 44	.....	.. ..	....
17	γ Corvi	9	11 14.26	− 0.22	−26. 38	55 49 57.70	28.384	+1 19.4	51. 9	12 10	.....	.. ..	....
18	δ² Corvi	8	25 16.04	− 0.22	−26. 42	54 48 1.18	29.050	+1 16.4	52. 3	12 24	.....	.. ..	....
	August 4, U.												
19	Groombridge 750 S. P.	9	6 21.64	− 4.17	[−26. 43]	304 10	......	....	....	4 5	.....	.. ..	....
20	σ Scorpii	9	15 44.37	− 0.44	[−26. 55]	64 10	......	....	....	16 15	.....	.. ..	....
21	τ Scorpii	9	30 17.58	− 0.45	[−26. 58]	66 50	......	....	....	16 29	.....	.. ..	....
	August 4, L.												
22	β Tauri	9	20 34.67	− 0.09	−26. 75	10 19 49.60	27.960	+ 10.1	51. 2	5 20	.....	.. ..	....
23	ε Orionis	8	31 42.86	− 0.24	−26. 70	40 5 47.78	29.328	+ 46.3	50.7	5 31	.....	.. ..	....
24	α Orionis	9	50 20.48	− 0.20	−26. 74	31 27 55.45	27.139	+ 33.6	51. 8	5 49	.....	.. ..	....
25	γ Geminorum	9	32 31.53	− 0.16	−26. 78	22 21 57.18	28.294	+ 22.6	50. 1	6 32	.....	.. ..	....
26	Venus I, N	4	56 31.77	− 0.13	**−26.75**	16 29 51.92	30.460	+ 16.2	**51.2**	6 56 4.89	+ 0.35	+22 20 2.4	....
27	Venus II, S	5	56 32.60	− 0.13	**−26.75**	16 29 51.92	30.845	+ 16.2	**51.2**	6 56 5.72	− 0.48	+22 19 51.2	....
28	Mercury C, C	9	34 28.41	− 0.14	**−26.75**	18 38 7.98	28.351	+ 18.4	**51.5**	8 34 1.52	− 0.01	+20 12 44.4	....
	August 5, L.												
29	Sun I, N	9	58 28.73	− 0.16	**−26.76**	21 27 56.82	29.237	+ 21.4	**51.6**	8 58 1.81	+66.31	+17 22 27.1	....
30	Sun II, S	9	0 41.34	− 0.16	**−26.76**	21 59 58.48	28.227	+ 22.0	**51.6**	9 0 14.42	−66.30	+16 50 54.5	....
31	α Leonis	9	3 37.36	− 0.18	−26. 79	26 24 2.75	28.455	+ 26.9	51. 4	10 3	.....	.. ..	....
32	β Leonis	9	44 31.93	− 0.16	−26.74	23 43 53.90	27.966	+ 23.7	51. 7	11 44	.....	.. ..	....
33	γ Corvi	8	11 14.80	− 0.32	−26. 83	55 49 58.48	28.318	+1 19.1	52. 9	12 10	.....	.. ..	....
34	α Virginis	9	20 30.87	− 0.29	−26. 71	49 30 4.30	26.748	+1 3.0	52. 6	13 20	.....	.. ..	....
	August 6, R.												
35	β Tauri	9	20 34.82	− 0.14	−26. 79	10 20 0.35	27.590	+ 10.2	51. 6	5 20	....	.. ..	....
36	ε Orionis	9	31 43.07	− 0.30	−26. 80	40 6 3.92	28.784	+ 46.9	52. 2	5 31	.....	.. ..	....
37	α Orionis	9	50 20.71	− 0.26	−26. 86	31 28 9.82	26.629	+ 34.0	52. 1	5 49	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
3 5 10	29.720	78.3	78.3
5 21	......	....	78.5
5 32	......	....	78.8
5 58	29.728	80.[illegible]	80.1
6 51	29.738	83.[illegible]	82.2
7 29	29.750	84.5	84.0
7 40	29.748	85.1	83.9
[illegible] 26	29.750	85.7	84.4
4 8 57	29.742	86.2	85.0
10 4	29.736	87.0	85.8
10 15	......	....	85.8
11 45	29.728	86.7	85.1
12 11	......	....	85.0
12 25	29.722	86.7	85.0
5 21	29.770	75.0	76.0
5 32	......	....	76.1
5 50	29.778	76.8	77.0
6 33	......	....	78.4
6 57	29.796	80.8	80.0
8 34	......	....	82.2
5 9 1	29.794	84.[illegible]	83.0
10 4	29.788	86.1	85.0
11 45	29.750	88.2	86.9
12 11	......	....	87.0
13 21	29.728	88.7	85.9
6 5 21	29.690	68.7	67.9
5 32	......	....	68.1
5 50	29.682	69.7	68.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7, 27. Bisections at I, VII.
8, 26. Bisections at II, VI.
9, 18. Bisections at II, VI, VII.
12, 29. Bisections at I, II, III.
13, 30. Bisections at V, VI, VII.
31, 33. Z. D. thread D_1 used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+ 1.8	− 6.5	0.0	− 4.7
8	+ 1.8	+ 6.5	...	+ 8.3
11	+ 2.1	....	+ 0.1	+ 2.2
12	+ 3.2	+15 48.2	...	+15 51.4
13	+ 3.1	−15 48.1	...	−15 45.0
26	+ 1.7	− 5.6	0.0	− 3.9
27	+ 1.7	+ 5.6	...	+ 7.3
28	+ 2.1	....	0.0	+ 2.1
29	+ 3.2	−15 46.3	...	−15 43.1
30	+ 3.3	+15 46.2	...	+15 49.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ Geminorum	8	32 31.63	— 0.21	—26.78	22 22 5.88	27.964	+ 22.9	49.8	6 32	.....	.. ..	....
2	α Canis Majoris....	9	41 18.00	— 0.37	—26.93	55 23 58.92	30.029	+1 20.4	51.8	6 40	.....	.. ..	...
3	Venus I, N	4	6 54.45	— 0.18	**—26.86**	16 40 2.70	28.642	+ 16.7	**51.5**	7 6 27.41	+ 0.28	+22 10 43.0	....
4	Venus II, S......	5	6 55.12	— 0.18	**—26.86**	16 40 2.70	29.075	+ 16.7	**51.5**	7 6 28.08	— 0.39	+22 10 30.9	....
5	α^2 Geminorum	9	28 49.37	— 0.12	—26.91	6 43 59.25	30.577	+ 6.6	51.7	7 28	.....	.. ..	....
6	β Geminorum	9	39 47.68	— 0.14	—26.95	10 34 7.12	31.115	+ 10.4	52.4	7 39	.....	.. ..	....
	August 7, R.												
7	Sun I, N	9	6 9.83	— 0.21	**—26.86**	22 0 2.18	30.532	+ 22.3	**51.5**	9 5 42.76	+66.12	+16 49 43.8	....
8	Sun II, S........	9	8 22.07	— 0.21	**—26.86**	22 31 58.50	29.883	+ 22.9	**51.5**	9 7 55.00	—66.12	+16 18 6.3	....
9	γ^1 Leonis	5	15 2.44	— 0.18	—26.87	18 29 58.10	30.081	+ 18.4	51.2	10 14	.....	.. ..	....
10	δ Leonis	9	9 22.09	— 0.18	—26.85	17 47 56.18	27.166	+ 17.6	51.3	11 8	.....	.. ..	....
11	α Canum Venat....	9	51 54.66	— 0.07	—26.91	0 0 0.55	28.919	+ 0.1	50.6	12 51	.....	.. ..	....
12	α Virginis	9	20 31.01	— 0.31	—26.86	49 29 58.22	26.895	+1 3.9	51.7	13 20	.....	.. ..	....
	August 7, U.												
13	Groombridge 750 S. P.	9	6 22.76	— 3.57	[—27.34]	304 10	......	....	....	4 5	.....	.. ..	....
14	σ Scorpii	9	15 44.74	— 0.39	[—27.01]	64 10	......	....	....	16 15	.....	.. ..	....
15	τ Scorpii	9	30 18.01	0.40	[—27.10]	66 50	......	....	....	16 29	.....	.. ..	....
	August 7, L.												
16	α Orionis..........	9	50 20.99	— 0.24	—27.14	31 28 3.00	26.850	+ 33.6	51.3	5 49	.....	.. ..	....
17	γ Geminorum	9	32 32.03	— 0.20	—27.17	22 22 5.10	28.011	+ 22.5	50.0	6 32	.....	.. ..	....
18	Venus I, N	4	12 5.71	— 0.16	**—27.18**	16 46 3.30	27.845	+ 16.5	**51.2**	7 11 38.37	+ 0.37	+22 5 5.2	....
19	Venus II, S......	5	12 6.58	— 0.16	**—27.18**	16 46 3.30	28.275	+ 16.5	**51.2**	7 11 39.24	— 0.50	+22 4 52.8	....
20	α^2 Geminorum	9	28 49.66	— 0.10	—27.20	6 44 7.00	30.300	+ 6.5	51.5	7 28	.....	.. ..	....
21	β Geminorum	9	39 47.94	— 0.12	—27.21	10 36 4.72	26.978	+ 10.2	52.0	7 39	.....	.. ..	....
	August 8, L.												
22	Sun I, S	9	9 59.50	— 0.15	**—27.18**	22 50 2.70	27.192	+ 22.8	**51.5**	9 9 32.17	+66.15	+16 1 18.0	....
23	Sun II, N.......	9	12 11.80	— 0.15	**—27.18**	22 18 7.55	27.873	+ 22.2	**51.5**	9 11 44.47	—66.15	+16 32 55.2	....
24	β Leonis	8	44 32.29	— 0.14	—27.14	23 44	......	....	....	11 44	.....	.. ..	....
25	α Canum Venat....	9	51 54.91	— 0.02	—27.23	359 59 58.75	28.951	+ 0.1	52.0	12 51	.....	.. ..	....
26	α Virginis	9	20 31.21	— 0.21	—27.17	49 29 59.12	26.919	+1 3.2	52.7	13 20	.....	.. ..	....
27	η Bootis...........	9	50 30.10	— 0.12	—27.13	19 57 59.62	27.329	+ 19.6	51.7	13 50	.....	.. ..	....
	August 8, Br.												
28	α Orionis..........	9	50 20.99	— 0.29	—27.07	31 28 2.42	26.928	+ 33.8	53.2	5 49	.....	.. ..	....
29	η Geminorum	7	9 26.87	— 0.21	—27.09	16 20 5.15	25.800	+ 16.2	51.0	6 8	.....	.. ..	....
30	γ Geminorum	9	32 32.01	— 0.24	—27.09	22 22 4.08	28.090	+ 22.7	51.3	6 32	.....	.. ..	....
31	α Canis Majoris....	9	41 18.25	— 0.39	—27.12	55 24 5.78	29.790	+1 19.8	51.7	6 40	.....	.. ..	....
32	Venus II, C......	5	17 17.24	— 0.20	**—27.09**	16 52 8.38	28.364	+ 16.7	**52.1**	7 16 49.95	0.43	+21 58 46.0	....
	August 9, Br.												
33	Sun I, S	9	13 48.61	— 0.21	**—27.09**	23 6 0.25	29.433	+ 23.4	**52.1**	9 13 21.31	+65.91	+15 44 16.6	....
34	Sun II, N........	9	16 0.42	— 0.21	**—27.09**	22 33 58.50	30.401	+ 22.8	**52.1**	9 15 33.12	—65.90	+16 15 52.2	....
35	α Virginis	9	20 31.20	— 0.29	—27.09	49 30 1.55	26.818	+1 3.9	53.0	13 20	.....	.. ..	....
36	ζ Virginis	7	30 11.23	— 0.25	—27.10	38 56 5.02	28.728	+ 44.2	53.0	13 29	.....	.. ..	....
37	η Bootis..........	9	50 30.09	— 0.17	—27.08	19 58 4.60	27.163	+ 19.9	52.1	13 50	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
6 6 33	......	...	69.9
6 41	29.710	71.5	70.1
7 7	......	....	70.4
7 29	......	....	71.8
7 40	29.718	74.2	72.0
7 9 9	29.718	76.0	74.0
10 15	29.700	76.8	75.5
11 9	29.693	78.8	76.7
12 52	......	....	77.6
13 21	29.664	80.0	77.4
5 50	29.646	72.0	74.4
6 33	......	....	77.1
7 12	29.672	79.1	79.1
7 29	......	....	80.1
7 40	29.670	80.4	80.3
8 9 13	29.678	83.2	83.8
13 21	29.682	85.2	83.8
13 51	29.686	86.0	84.8
5 45	29.856	74.4	75.0
6 13	......	....	76.0
6 33	......	....	77.1
6 39	29.870	77.5	....
6 41	.....	....	77.1
7 17	29.882	79.4	77.8
9 9 16	29.880	81.7	79.5
13 21	29.846	82.8	80.5
13 30	......	....	80.2
13 51	......	....	80.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 19. Bisections at I, VII.
4, 18. Bisections at II, VI.
5, 29, 37. Bisections at II, VI, VII.
6, 30. Bisections at VI, VII.
7, 22, 33. Bisections at I, II, III.
8, 23, 34. Bisections at V, VI, VII.
25, 29. Z. D. thread D_1 used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 1.8	— 6.1	+ 0.1	— 4.2
4	+ 1.8	+ 6.1	...	+ 7.9
7	+ 3.3	—15 48.7	...	—15 45.4
8	+ 3.3	+15 48.8	...	+15 52.1
18	+ 1.8	— 6.2	0.0	— 4.4
19	+ 1.8	+ 6.2	...	+ 8.0
22	+ 3.4	+15 48.6	...	+15 52.0
23	+ 3.3	—15 48.5	...	—15 45.2
32	+ 1.8	....	0.0	+ 1.8
33	+ 3.4	+15 47.8	...	+15 51.2
34	+ 3.3	—15 47.7	...	—15 44.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Moon I, N	9	59 55.67	− 0.31	**−27.10**	51 12 1.85	28.007	+1 7.9	**52.1**	13 59 28.26	+63.90	−12 21 48.3	....
2	α Bootis	9	11 40.53	− 0.17	−27.13	19 10 4.80	26.669	+ 19.0	51.2	14 11	.....	.. ..	....
	August 11, R.												
3	α Coronæ Borealis	7	31 1.53	− 0.15	−27.04	11 48 4.70	28.553	+ 11.6	53.1	15 30	.....	.. ..	....
4	Moon I, N	9	40 53.32	− 0.39	**−27.05**	56 28 4.38	26.395	+1 23.1	**52.4**	15 40 25.88	+64.36	−17 37 19.8	....
5	δ Ophiuchi	9	9 42.88	− 0.32	−27.12	42 16	......	....	....	16 9	.....	.. ..	....
6	α Scorpii	9	23 54.82	− 0.45	−27.00	65 2 4.32	28.427	+1 58.6	50.4	16 23	.....	.. ..	....
7	ζ Ophiuchi	9	32 16.27	− 0.36	−27.04	49 12 5.05	28.580	+1 4.2	52.8	16 31	.....	.. ..	....
8	κ Ophiuchi	9	53 31.87	− 0.26	−27.01	29 19 34.02	26.858	+ 31.2	52.9	16 53	.....	.. ..	....
9	d Herculis	9	58 28.88	− 0.10	−27.11	5 8 3.40	28.688	+ 5.1	52.5	16 58	.....	.. ..	....
10	Uranus C, C	9	5 31.31	− 0.45	**−27.05**	61 46 6.10	27.751	+1 43.2	**52.4**	17 5 3.81	.....	−22 56 20.1	....
11	θ Ophiuchi	9	16 30.64	− 0.47	−26.99	63 44 3.45	26.943	+1 52.3	52.5	17 16	.....	.. ..	....
12	b Ophiuchi	8	20 54.35	− 0.47	−27.07	62 55 33.32	26.030	+1 48.4	52.4	17 20	.....	.. ..	....
	August 11, Hd.												
13	λ Ursæ Minoris	7	20 45.36	+16.53	[−25.80]	309 52	......	....	....	19 20	.....	.. ..	....
14	c Sagittarii	9	57 9.84	− 0.47	[−27.14]	66 48	......	....	....	19 56	.....	.. ..	....
15	β Capricorni	9	16 1.97	− 0.40	[−27.23]	53 56	......	....	....	20 15	.....	.. ..	....
	August 11, Br.												
16	α Orionis	9	50 21.27	− 0.26	−27.30	31 28 6.72	26.734	+ 34.3	52.7	5 49	.....	.. ..	....
17	θ Aurigæ	9	53 31.88	− 0.08	−27.29	1 40 6.60	25.980	+ 1.7	51.4	5 53	.....	.. ..	....
18	η Geminorum	9	9 27.08	− 0.18	−27.26	16 20 6.35	25.834	+ 16.4	51.0	6 8	.....	.. ..	....
19	μ Geminorum	8	17 31.25	− 0.18	−27.29	16 16 5.50	30.715	+ 16.4	52.0	6 17	.....	.. ..	....
20	Venus I, N	4	32 47.18	− 0.18	**−27.29**	17 14 8.80	29.280	+ 17.4	**51.9**	7 32 19.71	+ 0.37	+21 36 18.5	....
21	Venus II, S	5	32 48.03	− 0.18	**−27.29**	17 14 8.80	29.712	+ 17.4	**51.9**	7 32 20.56	− 0.48	+21 36 6.3	....
22	β Geminorum	9	39 48.13	− 0.14	−27.30	10 36 11.95	26.774	+ 10.5	53.4	7 39	.....	.. ..	....
	August 12, Br.												
23	Sun I, N	9	25 11.95	− 0.22	**−27.28**	23 28 3.48	27.238	+ 24.1	**51.9**	9 24 44.45	+65.73	+15 23 14.8	....
24	γ¹ Leonis	9	15 2.88	− 0.19	−27.29	18 30 5.88	29.839	+ 18.6	52.0	10 14	.....	.. ..	....
25	δ Leonis	9	9 22.47	− 0.19	−27.23	17 48 4.02	26.905	+ 17.8	51.5	11 8	.....	.. ..	....
26	β Leonis	9	44 32.42	− 0.22	−27.21	23 44 4.08	27.580	+ 24.4	51.3	11 44	.....	.. ..	....
27	α Canum Venat.	7	51 55.03	− 0.06	−27.37	359 59 56.78	29.130	+ 0.1	52.2	12 51	.....	.. ..	....
28	β¹ Scorpii	9	0 15.11	− 0.39	−27.31	58 22 4.92	28.084	+1 30.4	51.9	15 59	.....	.. ..	....
29	δ Ophiuchi	9	9 43.03	− 0.33	−27.28	42 16 4.30	29.884	+ 50.8	52.0	16 9	.....	.. ..	....
30	α Scorpii	9	23 55.06	− 0.42	−27.29	65 2 5.65	28.431	+1 59.5	52.9	16 23	.....	.. ..	....
31	Uranus C, C	9	5 28.30	− 0.41	**−27.29**	61 46 6.25	27.586	+1 43.9	**51.8**	17 5 0.60	.....	−22 56 16.8	....
32	α Ophiuchi	9	30 53.64	− 0.26	−27.28	26 12 8.62	29.286	+ 27.6	50.6	17 30	.....	.. ..	....
	August 12, Hd.												
33	λ Ursæ Minoris	5	20 48.14	+16.58	[−29.47]	309 52	......	....	....	19 20	.....	.. ..	....
34	c Sagittarii	9	57 10.01	− 0.46	[−27.32]	66 48	......	....	....	19 56	.....	.. ..	....
35	β Capricorni	9	16 2.01	− 0.39	[−27.28]	53 56	......	....	....	20 15	.....	.. ..	....
	August 12, L.												
36	γ Geminorum	9	32 32.44	− 0.22	−27.44	22 22 4.75	28.019	+ 23.4	50.8	6 32	.....	.. ..	....
37	α Canis Majoris	9	41 18.64	− 0.34	−27.48	55 23 59.02	29.940	+1 22.3	52.3	6 40	.....	.. ..	....
38	α² Geminorum	8	28 50.16	− 0.14	−27.55	6 44 5.98	30.352	+ 6.8	54.1	7 28	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
9 14 0	29.840	82.5	80.2
14 12	29.838	82.0	80.0
11 15 31	29.764	76.4	74.3
15 41	......	....	73.9
16 24	29.780	73.7	72.0
16 32	......	....	71.7
16 54	......	....	71.0
16 58	......	....	70.9
17 6	......	....	70.7
17 17	......	....	70.4
17 21	......	....	70.3
18 21	29.820	71.3	....
5 50	......	...	68.8
5 58	29.920	68.7	....
6 18	29.926	69.8	69.9
7 33	29.932	73.0	71.2
7 40	......	....	71.3
12 9 29	29.930	76.0	74.4
10 15	29.930	76.0	74.7
11 9	......	....	75.0
11 45	29.926	77.3	75.1
12 52	29.924	78.0	75.0
15 56	29.924	73.6	71.3
16 10	......	....	71.0
17 5	29.938	71.0	69.9
17 31	29.946	70.8	69.2
6 33	30.038	66.1	63.8
6 41	......	....	64.1
7 29	......	....	65.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1.	Bisections at II, III, IV, V, VI.
3, 9, 12, 25, 38.	Bisections at II, VI, VII.
4.	Bisections at III, IV, V.
6, 11.	Bisections at I, VI, VII.
17, 19, 27.	Bisections at VI, VII.
20.	Bisections at I, VII.
21.	Bisections at II, VI.
23.	Bisections at I, II.
38.	Z. D. thread D_1 used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+43 0.5	−15 6.5	...	+27 54.0
4	+45 14.0	−14 51.2	...	+30 22.8
10	+ 0.4	....	...	+ 0.4
20	+ 1.8	− 6.1	0.0	− 4.3
21	+ 1.8	+ 6.1	...	+ 7.9
23	+ 3.5	−15 49.0	...	−15 45.5
31	+ 0.4	....	...	+ 0.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Canis Minoris	9	34 39.47	− 0.26	−27.51	33 22 5.62	28.458	+ 37.3	51.1	7 34	.....	.. ..	....
2	Venus I, N	4	37 56.74	− 0.20	**−27.48**	17 24 7.02	26.762	+ 17.8	**52.3**	7 37 29.06	+ 0.40	+21 27 32.1	....
3	Venus II, S	5	37 57.65	− 0.20	**−27.48**	17 24 7.02	27.215	+ 17.8	**52.3**	7 37 29.97	− 0.51	+21 27 19.1	....
4	β Geminorum	9	39 48.31	− 0.16	−27.44	10 36 6.18	26.982	+ 10.6	53.4	7 39	.....	.. ..	....
	August 13, L.												
5	Sun I, N	9	28 58.72	− 0.23	**−27.47**	23 44 2.38	31.638	+ 24.7	**52.0**	9 28 31.02	+65.65	+15 5 10.2	....
6	Sun II, S	9	31 10.02	− 0.23	**−27.47**	24 16 4.08	30.842	+ 25.3	**52.0**	9 30 42.32	−65.65	+14 33 31.5	....
7	η Bootis	9	50 30.40	− 0.21	−27.41	19 58 4.25	27.136	+ 20.2	51.4	13 50	.....	.. ..	....
8	α Bootis	9	11 40.84	− 0.20	−27.47	19 8 6.00	30.830	+ 19.3	51.3	14 11	.....	.. ..	....
9	ε Bootis	9	41 11.72	− 0.17	−27.41	11 22 4.80	27.340	+ 11.2	51.5	14 40	.....	.. ..	....
	August 14, L.												
10	μ Geminorum	6	17 31.80	− 0.18	−27.76	16 17 59.00	26.644	+ 16.4	52.1	6 17	.....	.. ..	....
11	γ Geminorum	9	32 32.76	− 0.21	−27.72	22 21 58.38	28.140	+ 23.0	49.8	6 32	.....	.. ..	....
12	α Canis Majoris	9	41 19.00	− 0.37	−27.77	55 23 56.98	29.980	+1 20.8	50.2	6 40	.....	.. ..	....
	August 15, L.												
13	Sun I, S	9	36 30.44	− 0.19	**−27.77**	24 53 58.18	28.430	+ 25.6	**51.1**	9 36 2.48	+65.55	+13 56 44.0	....
14	Sun II, N	9	38 41.54	− 0.19	**−27.77**	24 22 0.80	29.080	+ 25.0	**51.1**	9 38 13.58	−65.55	+14 28 24.4	....
15	β Leonis	6	44 32.89	− 0.18	−27.74	23 44	......	....	....	11 44	.....	.. ..	....
16	α Canum Venat.	9	51 55.46	− 0.06	−27.85	0 0 0.58	28.913	+ 0.1	52.0	12 51	.....	.. ..	....
17	α Virginis	9	20 31.78	− 0.25	−27.78	49 30 1.90	26.725	+1 3.9	51.1	13 20	.....	.. ..	....
18	η Bootis	9	50 30.73	− 0.16	−27.82	19 57 59.22	27.246	+ 19.9	51.4	13 50	.....	.. ..	....
	August 16, Hd.												
19	ε Virginis	9	57 47.48	− 0.19	[−27.83]	27 22	......	....	....	12 57	.....	.. ..	....
20	α Ursæ Minoris S. P.	9	25 20.22	−14.02	[−27.48]	307 40	......	....	....	1 24	.....	.. ..	....
21	η Bootis	9	50 30.69	− 0.15	[−27.80]	19 58	......	....	....	13 50	.....	.. ..	....
	August 16, Br.												
22	μ Sagittarii	9	8 26.22	− 0.42	−27.84	59 54 3.35	29.312	+1 36.8	52.4	18 7	.....	.. ..	....
23	η Serpentis	9	16 45.87	− 0.34	−27.81	41 46 1.68	27.391	+ 50.2	51.6	18 16	.....	.. ..	....
24	λ Sagittarii	9	22 27.59	− 0.44	−27.79	64 18 2.80	27.519	+1 56.4	51.1	18 21	.....	.. ..	....
25	ι Aquilæ	9	30 24.19	− 0.36	−27.79	47 10 1.12	25.546	+1 0.6	50.6	18 29	.....	.. ..	....
26	Vesta	9	10 9.17	− 0.42	**−27.81**	65 6 6.40	26.778	+2 0.8	**51.6**	19 9 40.94	.....	−26 16 11.0	....
27	Saturn I, N	4	37 27.01	− 0.40	**−27.81**	60 32 4.65	27.200	+1 39.4	**51.6**	19 36 58.80	+ 0.74	−21 41 59.8	....
28	Saturn II, S	5	37 28.49	− 0.40	**−27.81**	60 32 4.65	27.812	+1 39.4	**51.6**	19 37 0.28	− 0.74	−21 42 17.4	....
29	Moon I, S	9	59 16.38	− 0.38	**−27.81**	55 16 3.70	29.219	+1 21.2	**51.6**	19 58 48.19	+64.50	−16 26 38.5	....
30	α² Capricorni	9	13 9.12	− 0.35	−27.79	51 40 7.20	29.364	+1 11.3	52.9	20 12	.....	.. ..	....
31	π Capricorni	9	22 14.93	− 0.37	−27.80	57 22 3.32	26.879	+1 28.0	51.2	20 21	.....	.. ..	....
32	ψ Capricorni	9	40 50.10	− 0.40	−27.88	64 26 3.90	28.834	+1 57.6	53.3	20 40	.....	.. ..	....
33	μ Aquarii	9	47 54.16	− 0.33	−27.83	48 12 5.75	25.661	+1 3.1	50.7	20 47	.....	.. ..	....
34	Jupiter I, N	4	54 42.98	− 0.36	**−27.82**	57 12 3.82	29.935	+1 27.6	**51.6**	20 54 14.80	+ 1.70	−18 23 5.2	....
35	Jupiter II, S	5	54 46.39	− 0.36	**−27.82**	57 12 3.82	31.610	+1 27.7	**51.6**	20 54 18.21	− 1.71	−18 23 53.2	....
36	β Aquarii	9	26 55.96	− 0.32	−27.78	44 50 4.25	28.164	+ 56.3	51.0	21 26	.....	.. ..	....
	August 17, L.												
37	σ Sagittarii	9	49 43.69	− 0.37	−27.92	65 13 57.45	28.615	+2 1.3	50.9	18 49	.....	.. ..	....
38	Vesta	9	9 50.90	− 0.37	**−27.88**	65 7 57.32	28.802	+2 0.6	**52.0**	19 9 22.65	.....	−26 18 59.0	....
39	d Sagittarii	9	12 26.27	− 0.34	−27.90	57 58 1.22	26.460	+1 29.4	53.2	19 11	.....	.. ..	....
40	δ Aquilæ	9	21 5.15	− 0.26	−27.88	35 56 0.32	26.281	+ 40.7	51.8	19 20	.....	.. ..	....
41	κ Aquilæ	9	32 9.09	− 0.30	−27.84	46 4 2.90	29.578	+ 58.3	52.0	19 31	.....	.. ..	....
42	Saturn I, N	4	37 12.73	− 0.35	**−27.90**	60 32 3.30	28.605	+1 39.2	**52.0**	19 36 44.48	+ 0.72	−21 42 38.1	....
43	Saturn II, S	5	37 14.16	− 0.35	**−27.90**	60 32 3.30	29.225	+1 39.2	**52.0**	19 36 45.91	− 0.71	−21 42 55.6	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
12 7 40	30.042	69.1	65.8
13 9 32	30.004	72.0	70.0
13 51	29.948	75.8	74.0
14 12	29.946	75.4	74.1
14 41	29.942	75.0	73.8
14 6 18	29.806	68.2	69.1
6 41	29.808	69.2	69.8
15 9 38	29.778	76.2	76.2
13 21	29.724	79.8	78.0
13 51	29.720	79.8	78.0
16 18 4	29.730	67.0	64.3
18 35	29.732	66.0	63.8
19 10	29.736	65.6	63.4
19 48	......	....	63.2
20 5	29.744	64.9	62.9
20 22	......	....	62.2
20 48	......	....	62.0
21 0	29.744	63.2	61.1
21 27	29.746	62.9	60.9
17 18 50	29.732	68.8	65.2
19 12	......	....	65.0
19 37	29.738	67.1	64.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 28, 35, 42. Bisections at II, VI.
3, 27, 34, 43. Bisections at I, VII.
4, 39. Bisections at VI, VII.
5, 13. Bisections at I, II, III.
6, 14. Bisections at V, VI, VII.
9, 10, 11, 16, 18. Z. D. thread D_1 used.
11. Bisections at II, VI, VII.
16. Bisections at I, II, VI.
29. Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 1.8	− 6.5	0.0	− 4.7
3	+ 1.8	+ 6.5	...	+ 8.3
5	+ 3.5	−15 49.3	...	−15 45.8
6	+ 3.6	+15 49.3	...	+15 52.9
13	+ 3.7	+15 50.1	...	+15 53.8
14	+ 3.6	−15 50.2	...	−15 46.6
26	+ 6.1	....	...	+ 6.1
27	+ 0.9	− 8.8	...	− 7.9
28	+ 0.9	+ 8.8	...	+ 9.7
29	+45 4.0	+15 0.4	...	+60 4.4
34	+ 1.8	− 24.0	...	− 22.2
35	+ 1.8	+ 24.0	...	+ 25.8
38	+ 6.0	....	...	+ 6.0
42	+ 0.9	− 8.8	...	− 7.9
43	+ 0.9	+ 8.7	...	+ 9.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α² Capricorni.......	9	13 9.22	−0.32	−27.92	51 40 2.25	29.518	+1 11.2	52.3	20 12	.....	.. ..	....
2	π Capricorni.......	9	22 14.98	−0.34	−27.88	57 22 5.55	26.812	+1 27.8	51.3	20 21	.....	.. ..	....
3	ψ Capricorni.......	9	40 50.13	−0.37	−27.94	64 26 3.18	28.868	+1 57.3	53.2	20 40	.....	.. ..	....
4	μ Aquarii..........	9	47 54.28	−0.30	−27.98	48 12 4.48	25.754	+1 2.9	52.0	20 47	.....	.. ..	....
5	Moon I, S	9	50 37.84	−0.33	**−27.93**	52 22 4.88	30.380	+1 13.0	**52.0**	20 50 9.58	+64.20	−13 33 0.9	....
6	Moon N	..	.. ..	....	.....	51 52 4.82	28.933	+1 11.7	**52.0**	.. ..	.....	−13 2 24.7	....
7	ζ Capricorni.......	9	21 36.71	−0.36	−27.90	61 40 9.32	26.376	+1 44.2	51.7	21 21	.....	.. ..	....
	August 17, R.												
8	γ Geminorum	9	32 32.71	−0.21	−27.60	22 22 7.20	27.875	+ 22.9	48.8	6 32	.....	.. ..	....
9	α Canis Majoris....	9	41 18.96	−0.37	−27.66	55 24 0.65	29.830	+1 20.4	49.6	6 40	.....	.. ..	....
10	β Geminorum	9	39 48.69	−0.16	−27.72	10 34 4.65	31.165	+ 10.4	50.7	7 39	.....	.. ..	....
11	Venus I, N	4	3 37.24	−0.21	**−27.65**	18 16 5.48	28.838	+ 18.2	**50.0**	8 3 9.38	+ 0.33	+20 34 31.7	....
12	Venus II, S......	5	3 37.98	−0.21	**−27.65**	18 16 5.48	29.275	+ 18.2	**50.0**	8 3 10.12	− 0.41	+20 34 19.4	....
	August 18, R.												
13	Sun I, S.........	9	47 43.76	−0.25	**−27.63**	25 50 2.80	30.058	+ 26.5	**50.4**	9 47 15.88	+65.16	+12 59 51.4	....
14	Sun II, N........	9	49 54.07	−0.25	**−27.63**	25 18 1.60	30.848	+ 25.9	**50.4**	9 49 26.19	−65.15	+13 31 31.6	....
15	Mercury C, C....	8	18 47.30	−0.25	**−27.62**	26 34 1.28	29.569	+ 27.3	**50.6**	10 18 19.43	0.00	+12 16 6.7	....
16	α Bootis...........	9	11 40.83	−0.16	−27.58	19 10 4.02	26.716	+ 18.9	51.7	14 11	.....	.. ..	....
17	ε Bootis...........	9	41 11.72	−0.12	−27.55	11 22 2.05	27.504	+ 11.0	50.9	14 40	.....	.. ..	....
18	α² Libræ...........	9	45 57.74	−0.28	−27.59	54 28 3.42	28.449	+1 16.3	52.4	14 45	.....	.. ..	....
19	σ Sagittarii........	9	49 43.41	−0.36	−27.66	65 14 0.95	28.558	+2 0.0	51.5	18 49	.....	.. ..	....
20	ζ Aquilæ..........	9	1 25.52	−0.21	−27.63	25 7 58.80	26.996	+ 26.1	51.3	19 0	.....	.. ..	....
21	Vesta	9	9 34.43	−0.36	**−27.63**	65 10 0.02	30.249	+1 59.6	**52.2**	19 9 6.44	.....	−26 21 41.7	....
22	δ Aquilæ..........	9	21 4.89	−0.25	−27.64	35 55 57.08	26.420	+ 40.3	52.3	19 20	.....	.. ..	....
23	κ Aquilæ..........	9	32 8.83	−0.29	−27.60	46 3 58.35	29.761	+ 57.7	52.2	19 31	.....	.. ..	....
24	Saturn I, N......	4	36 58.27	−0.34	**−27.63**	60 31 56.42	30.202	+1 38.2	**52.2**	19 36 30.30	+ 0.63	−21 43 15.4	....
25	Saturn II, S	5	36 59.53	−0.34	**−27.63**	60 31 56.42	30.840	+1 38.2	**52.2**	19 36 31.56	− 0.63	−21 43 33.7	....
26	α² Capricorni.......	9	13 8.91	−0.31	−27.62	51 40 2.62	29.550	+1 10.4	52.8	20 12	.....	.. ..	....
27	π Capricorni.......	9	22 14.74	−0.33	−27.65	57 21 56.12	27.199	+1 26.7	51.8	20 21	.....	.. ..	....
28	ψ Capricorni.......	9	40 49.79	−0.36	−27.61	64 25 58.92	29.044	+1 56.0	52.6	20 40	.....	.. ..	....
29	Jupiter I, N	5	53 43.30	−0.33	**−27.63**	57 15 57.80	30.630	+1 26.5	**52.2**	20 53 15.34	+ 1.72	−18 27 17.3	....
30	Jupiter II, S	5	53 46.75	−0.33	**−27.63**	57 15 57.80	32.238	+1 26.6	**52.2**	20 53 18.79	− 1.73	−18 28 3.3	....
31	ζ Capricorni.......	9	21 36.40	−0.35	−27.60	61 40 0.72	26.746	+1 43.0	52.4	21 21	.....	.. ..	....
32	ξ Aquarii..........	9	33 3.92	−0.29	−27.63	47 7 58.38	27.191	+1 0.0	52.4	21 32	.....	.. ..	....
33	Moon I, N.......	9	41 39.01	−0.31	**−27.62**	48 18 3.25	29.554	+1 2.6	**52.2**	21 41 11.08	+64.02	− 9 28 28.4	....
34	μ Capricorni.......	6	48 29.05	−0.31	−27.62	52 50 0.12	29.080	+1 13.5	51.6	21 48	.....	.. ..	....
35	α Aquarii..........	9	1 16.73	−0.27	−27.61	39 38 0.85	27.841	+ 46.2	52.2	22 0	.....	.. ..	....
36	θ Aquarii..........	9	12 11.54	−0.29	−27.67	47 5 57.55	28.571	+1 0.0	52.7	22 11	.....	.. ..	....
	August 18, L.												
37	α Canis Majoris....	9	41 19.18	−0.33	−27.90	55 23 57.32	29.999	+1 19.5	50.3	6 40	.....	.. ..	....
38	α Canis Minoris....	9	34 39.86	−0.22	−27.83	33 22 5.22	28.465	+ 35.9	49.7	7 34	.....	.. ..	....
39	β Geminorum	7	39 48.76	−0.12	−27.81	10 36 5.28	26.900	+ 10.3	51.8	7 39	.....	.. ..	....
40	Venus I, N	4	8 43.61	−0.15	**−27.83**	18 28 3.50	29.805	+ 18.2	**50.8**	8 8 15.63	+ 0.41	+20 22 7.1	....
41	Venus II, S......	5	8 44.54	−0.15	**−27.83**	18 28 3.50	30.230	+ 18.2	**50.8**	8 8 16.56	− 0.52	+20 21 54.8	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
17 20 13	......	....	63.1
21 22	29.760	65.1	64.0
6 33	29.768	68.8	71.3
6 41	......	....	71.8
7 31	29.775	73.3	....
7 40	......	....	74.6
8 4	29.774	75.6	75.8
18 9 50	29.760	79.8	79.2
10 19	29.748	80.2	79.6
14 12	29.688	81.6	80.1
14 46	29.700	81.0	78.8
18 50	29.707	72.6	70.3
19 1	......	....	70.2
19 10	......	....	70.0
19 21	......	....	69.5
19 32	......	....	69.4
19 37	29.708	71.1	69.3
20 13	......	....	68.8
20 22	29.698	70.3	68.7
20 41	......	....	68.3
20 54	......	....	68.2
21 22	......	....	67.9
21 33	......	....	67.6
21 42	29.677	69.0	67.5
22 1	......	....	67.2
22 12	29.669	68.6	67.2
6 41	29.684	73.8	75.9
7 35	......	....	79.1
7 40	29.688	77.8	79.1
8 9	......	....	80.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 13.	Bisections at I, II, III.
6, 14.	Bisections at V, VI, VII.
11, 24, 29, 41.	Bisections at I, VII.
12, 25, 30, 40.	Bisections at II, VI.
33.	Bisections at II, III, IV, V, VI.
34, 39.	Bisections at VI, VII.
39.	Z. D. thread D_1 used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+43 47.4	+15 9.0	− 0.1	+58 56.3
6	+43 29.1	−15 9.0	...	+28 20.1
11	+ 1.9	− 6.2	+ 0.1	− 4.2
12	+ 1.9	+ 6.2	...	+ 8.1
13	+ 3.8	+15 50.0	...	+15 53.8
14	+ 3.7	−15 50.1	...	−15 46.4
15	+ 2.9	....	0.0	+ 2.9
21	+ 6.0	....	...	+ 6.0
24	+ 0.9	− 9.1	...	− 8.2
25	+ 0.9	+ 9.2	...	+ 10.1
29	+ 1.8	− 23.0	...	− 21.2
30	+ 1.8	+ 23.0	...	+ 24.8
33	+41 38.8	−15 16.1	...	+26 22.7
40	+ 1.9	− 6.2	+ 0.1	− 4.2
41	+ 1.9	+ 6.2	...	+ 8.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	August 19, L.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N	9	51 26.95	− 0.16	**−27.80**	25 38 2.58	29.543	+ 26.0	**51.1**	9 50 58.99	+65.18	+13 12 7.5	....
2	Sun II, S	9	53 37.31	− 0.16	**−27.80**	26 10 7.15	28.705	+ 26.6	**51.2**	9 53 9.35	−65.18	+12 40 27.2	....
3	ε Virginis	9	57 47.27	− 0.11	−27.73	27 22 3.62	27.400	+ 27.9	52.0	12 57	.....	.. ..	....
4	α Virginis	9	20 31.67	− 0.19	−27.78	49 29 58.90	26.896	+1 2.9	52.3	13 20	.....	.. ..	....
5	η Bootis	9	50 30.48	− 0.06	−27.72	19 58 2.88	27.234	+ 19.6	52.1	13 50	.....	.. ..	....
6	α Bootis	9	11 40.87	− 0.06	−27.74	19 10 6.70	26.619	+ 18.7	51.4	14 11	.....	.. ..	....
	August 19, Hd.												
7	51 H. Cephei S. P.	9	55 17.49	− 5.36	[−27.36]	306 4	......	....	....	6 54	.....	.. ..	....
8	λ Ursæ Minoris	6	20 42.73	+13.97	[−28.14]	309 52	......	....	....	19 20	.....	.. ..	....
9	c Sagittarii	9	57 10.19	− 0.35	[−27.62]	66 48	......	....	....	19 56	.....	.. ..	....
10	β Capricorni	9	16 2.27	− 0.30	[−27.64]	53 56	......	....	....	20 15	.....	.. ..	....
	August 19, L.												
11	π Aquarii	9	20 48.08	− 0.25	−27.72	37 58 2.52	26.678	+ 43.0	51.1	22 20	.....	.. ..	....
12	σ Aquarii	9	25 59.53	− 0.30	−27.71	50 0 6.55	29.088	+1 5.6	52.8	22 25	.....	.. ..	....
13	η Aquarii	9	30 51.00	− 0.26	−27.72	39 28 5.35	26.850	+ 45.3	51.8	22 30	.....	.. ..	....
14	Moon II, N	9	34 41.84	− 0.29	**−27.73**	44 14 6.08	28.210	+ 53.6	**51.7**	22 34 13.82	−64.08	− 5 23 44.4	....
15	λ Aquarii	9	48 1.87	− 0.29	−27.71	46 56 4.48	27.866	+ 59.0	51.6	22 47	.....	.. ..	....
16	φ Aquarii	9	9 46.58	− 0.28	−27.79	45 24 2.48	29.244	+ 56.0	51.1	23 9	.....	.. ..	....
	August 20, Hd.												
17	λ Ursæ Minoris	5	20 39.34	+16.15	[−27.79]	309 52	......	....	....	19 20	.....	.. ..	....
18	3 H. Ursæ Majoris S. P.	9	3 33.41	− 1.03	[−27.41]	287 38	......	....	....	8 3	.....	.. ..	....
19	β Capricorni	9	16 2.11	− 0.31	[−27.47]	53 56	......	....	....	20 15	.....	.. ..	....
	August 21, Hd.												
20	λ Ursæ Minoris	2	20 38.10	+14.36	[−25.62]	309 52	......	....	....	19 20	.....	.. ..	....
21	β Cygni	9	27 16.74	− 0.10	[−27.20]	11 4	......	....	....	19 26	.....	.. ..	....
22	c Sagittarii	9	57 9.72	− 0.34	[−27.17]	66 48	......	....	....	19 56	.....	.. ..	....
	August 21, L.												
23	α Canis Majoris	9	41 18.54	− 0.33	−27.19	55 24 2.05	29.818	+1 20.1	50.9	6 40	.....	.. ..	....
24	α² Geminorum	9	28 49.94	− 0.06	−27.20	6 43 56.78	30.669	+ 6.6	50.7	7 28	.....	.. ..	....
25	α Canis Minoris	9	34 39.20	− 0.22	−27.11	33 22 1.72	28.572	+ 36.3	49.8	7 34	.....	.. ..	....
26	β Geminorum	9	39 48.09	− 0.09	−27.10	10 36 3.95	27.039	+ 10.4	52.1	7 39	.....	.. ..	....
27	Venus I, N	9	23 58.13	− 0.14	**−27.13**	19 10 5.82	26.952	+ 19.2	**50.8**	8 23 30.86	+ 0.38	+19 41 25.0	....
28	Venus II, S	9	23 58.97	− 0.14	**−27.13**	19 10 5.82	27.302	+ 19.2	**50.8**	8 23 31.70	− 0.46	+19 41 14.9	....
	August 22, L.												
29	Sun I, S	9	2 33.38	− 0.18	**−27.10**	27 10 2.80	27.482	+ 28.2	**50.8**	10 2 6.10	−64.99	+11 41 3.5	....
30	Sun II, N	9	4 43.35	− 0.18	**−27.09**	26 37 59.02	28.297	+ 27.5	**50.8**	10 4 16.08	−64.99	+12 12 45.7	....
31	α Virginis	9	20 30.94	− 0.30	−26.97	49 30 5.58	26.515	+1 4.2	52.0	13 20	.....	.. ..	....
32	η Bootis	9	50 29.81	− 0.15	−27.01	19 58 5.60	27.090	+ 20.0	51.0	13 50	.....	.. ..	....
33	α Bootis	9	11 40.21	− 0.14	−27.04	19 10 5.08	26.628	+ 19.1	50.4	14 11	.....	.. ..	....
34	ρ Bootis	9	28 4.90	− 0.07	−27.04	8 2 5.65	29.871	+ 7.8	49.7	14 27	.....	.. ..	....
	August 22, Hd.												
35	λ Ursæ Minoris	7	20 37.26	+16.70	[−27.98]	309 52	......	....	....	19 20	.....	.. ..	....
36	c Sagittarii	9	57 9.54	− 0.40	[−26.94]	66 48	......	....	....	19 56	.....	.. ..	....
37	β Capricorni	9	16 1.52	− 0.34	[−26.86]	53 56	......	....	....	20 15	.....	.. ..	....
	August 22, L.												
38	δ Pisoium	9	44 6.56	− 0.22	−26.96	31 48 2.12	26.509	+ 35.3	52.0	0 43	.....	.. ..	....
39	ε Piscium	9	58 22.06	− 0.23	−26.95	31 27 58.30	29.491	+ 34.9	50.7	0 57	.....	.. ..	....
40	Moon II, N	9	11 19.09	− 0.25	**−26.96**	30 55 56.55	29.068	+ 34.2	**50.5**	1 10 51.88	−66.35	+ 7 54 18.8	....
41	f Piscium	9	13 15.20	− 0.27	−26.94	35 43 54.78	29.028	+ 41.0	49.5	1 12	.....	.. ..	....
42	θ¹ Ceti	9	19 37.97	− 0.33	−26.98	47 31 54.85	26.616	+1 2.2	49.7	1 19	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
19 9 54	29.692	84.6	83.6
12 58	29.660	87.0	85.8
13 21	......	....	85.2
13 51	29.650	86.7	85.1
14 12	29.648	86.4	85.1
22 21	29.704	75.9	74.2
22 35	......	....	73.8
23 10	29.710	74.9	73.0
21 6 41	29.722	72.4	72.5
7 29	......	....	73.4
7 35	......	....	74.0
7 40	29.732	75.0	74.1
8 24	29.734	77.0	75.0
22 10 5	29.740	78.1	77.0
13 21	29.734	79.6	76.4
13 50	......	....	75.1
14 12	29.726	78.1	75.4
14 28	29.728	78.2	75.2
0 44	29.760	61.1	59.1
1 20	29.762	60.5	57.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 29. Bisections at I, II, III.
2, 30. Bisections at V, VI, VII.
3, 31. Z. D. thread D_1 used.
12, 31. Bisections at VI, VII.
13. Bisections at I, II.
14, 40. Bisections at II, III, IV, V, VI.
27. Bisections at II, VI.
28. Bisections at I, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 3.8	−15 50.1	...	−15 46.3
2	+ 3.8	+15 50.2	...	+15 54.0
14	+39 15.6	−15 24.8	...	+23 50.8
27	+ 1.9	− 5.1	+ 0.1	− 3.1
28	+ 1.9	+ 5.1	...	+ 7.0
29	+ 4.0	+15 51.1	...	+15 55.1
30	+ 3.9	−15 51.0	...	−15 47.1
40	+29 39.9	−15 49.4	...	+13 50.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	August 22, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ Geminorum	9	32 31.98	− 0.24	−26. 71	22 22 4.92	27.961	+ 23.2	49. 3	6 32	.....	.. ..	....
2	ε Geminorum	9	38 23.19	− 0.19	−26. 75	13 38 1.05	27.080	+ 13.7	51. 3	6 37	.....	.. ..	....
3	ϑ Geminorum	9	46 48.86	− 0.12	−26. 76	4 46 3.52	29.358	+ 4.8	51. 6	6 46	.....	.. ..	....
4	ζ Geminorum	7	58 46.67	− 0.21	−26. 74	18 7 59.88	28.708	+ 18.4	50. 7	6 58	.....	.. ..	....
5	δ Geminorum	9	14 44.93	− 0.20	−26. 63	16 42 3.30	26.705	+ 16.8	49. 9	7 14	.....	.. ..	....
6	Venus I, N.......	4	29 1.42	− 0.22	**−26.68**	19 24 8.10	28.325	+ 19.7	**51.0**	8 28 34.52	+ 0.37	+19 26 42.6	....
7	Venus II, S......	5	29 2.24	− 0.22	**−26.68**	19 24 8.10	28.755	+ 19.7	**51.0**	8 28 35.34	− 0.45	+19 26 30.7	....
	August 23, Br.												
8	Sun I, S.........	9	6 14.61	− 0.26	**−26.65**	27 30 4.10	27.717	+ 28.8	**51.0**	10 5 47.70	+64.89	+11 20 55.1	....
9	Sun II, N	9	8 24.39	− 0.26	**−26.65**	26 58 4.22	28.418	+ 28.2	**51.0**	10 7 57.48	−64.89	+11 52 36.6	....
10	Mercury I, C	2	52 58.53	− 0.28	**−26.63**	30 20 6.32	26.582	+ 32.3	**51.0**	10 52 31.62	+ 0.17	+ 8 31 22.1	....
11	Mercury II	3	52 58.85	− 0.28	**−26.63**	... .	......	....	....	10 52 31.94	− 0.15	.. ..	....
12	β Leonis	..	.. ..	....	.....	23 44 1.42	27.670	+ 24.3	50. 8	11 44	.....	.. ..	....
13	γ Corvi	7	11 14.41	− 0.41	−26. 49	55 50	......	....	....	12 10	.....	.. ..	....
14	α Canum Venat	9	51 54.17	− 0.09	−26. 63	0 0 3.12	28.896	+ 0.1	50. 6	12 51	.....	.. ..	....
15	ε Virginis	8	57 46.30	− 0.26	−26. 65	27 22 5.80	27.365	+ 28.5	51. 6	12 57	.....	.. ..	....
16	ζ Virginis	9	30 10.60	− 0.32	−26. 57	38 56 8.45	28.552	+ 44.5	52. 3	13 29	.....	.. ..	....
17	η Bootis...........	9	50 29.46	− 0.22	−26. 60	19 57 58.68	27.354	+ 20.0	51. 7	13 50	.....	.. ..	....
	August 23, Hd.												
18	λ Ursæ Minoris....	6	20 36.97	+13.58	[−25. 47]	309 52	......	....	....	19 20	.....	.. ..	....
19	β Aquilæ..........	9	51 0.46	− 0.24	[−26. 67]	32 40	......	....	....	19 50	.....	.. ..	....
	August 23, Br.												
20	ο Piscium	9	40 43.20	− 0.31	−26. 44	30 10 0.55	29.344	+ 33.0	51. 3	1 40	.....	.. ..	....
21	β Arietis	9	49 43.78	− 0.25	−26. 47	18 32 2.70	25.919	+ 19.1	49. 9	1 49	.....	.. ..	....
22	Moon II, N.......	9	6 40.98	− 0.31	**−26.46**	26 56 3.88	30.090	+ 28.9	**50.4**	2 6 14.21	−67.78	+11 53 46.6	....
23	67 Ceti.............	9	12 35.52	− 0.39	−26. 49	45 42 1.52	28.919	+ 58.2	49. 7	2 12	.....	.. ..	....
24	ξ² Ceti.............	9	23 26.77	− 0.32	−26. 43	30 50 4.25	26.358	+ 33.9	50. 8	2 23	.....	.. ..	....
	August 24, Hd.												
25	λ Ursæ Minoris....	7	20 36.77	+13.92	[−26. 58]	309 52	......	....	....	19 20	.....	.. ..	....
26	c Sagittarii........	9	57 8.91	− 0.40	[−26. 32]	66 48	......	....	....	19 56	.....	.. ..	....
27	β Capricorni.......	9	16 0.89	− 0.35	[−26. 23]	53 56	......	....	....	20 15	.....	.. ..	....
	August 24, L.												
28	σ Arietis	9	46 34.57	− 0.24	−26.26	24 10 1.05	28.019	+ 25.6	49. 3	2 46	.....	.. ..	....
29	ε Arietis	9	54 6.18	− 0.22	−26. 24	17 53 59.40	28.025	+ 18.5	50.8	2 53	.....	.. ..	....
30	Moon II, N......	9	4 23.19	− 0.26	**−26.25**	23 38 3.42	27.212	+ 25.0	**50.2**	3 3 56.68	−69.30	+15 13 13.7	....
31	ζ Arietis	9	9 45.76	− 0.23	−26. 27	18 10 2.58	28.000	+ 18.7	50. 5	3 9	.....	.. ..	....
32	f Tauri	9	25 57.16	− 0.27	−26. 22	26 14 3.78	29.299	+ 28.1	50. 3	3 25	.....	.. ..	....
33	δ Geminorum	9	14 44.47	− 0.22	−26. 10	16 42 5.25	26.582	+ 16.8	50. 7	7 14	.....	.. ..	....
34	β Canis Minoris....	9	22 18.24	− 0.28	−26.08	30 22 6.50	27.062	+ 32.8	50. 8	7 21	.....	.. ..	....
35	α² Geminorum	9	28 49.13	− 0.16	−26. 22	6 44 7.88	30.290	+ 6.7	50. 9	7 28	.....	.. ..	....
36	β Geminorum	9	39 47.27	− 0.18	−26. 12	10 36 6.75	26.915	+ 10.5	51. 3	7 39	.....	.. ..	....
37	Venus I, N	9	39 5.91	− 0.22	**−26.12**	19 56 7.60	26.425	+ 20.2	**50.9**	8 38 39.57	+ 0.43	+18 55 37.4	....
38	Venus II, S......	9	39 6.86	− 0.22	**−26.12**	19 56 7.60	26.865	+ 20.2	**50.9**	8 38 40.52	− 0.52	+18 55 24.7	....
	August 25, L.												
39	Sun I, N.........	9	13 35.51	− 0.25	**−26.11**	27 38 7.85	30.162	+ 29.0	**50.9**	10 13 9.15	+64.85	+11 11 41.4	....
40	Sun II, S	9	15 45.20	− 0.25	**−26.11**	28 10 6.90	29.605	+ 29.6	**50.9**	10 15 18.84	−64.84	+10 39 58.7	....
41	Mercury C, C	9	5 47.73	− 0.26	**−26.11**	31 50 7.82	29.381	+ 34.2	**50.9**	11 5 21.36	+ 0.01	+ 6 59 59.0	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
22	6	28	29.800	63.6	65.1
	6	38	......	....	65.2
	6	47	......	....	65.9
	6	59	29.802	66.0	66.0
	7	15	......	....	67.0
	8	29	29.810	70.0	69.8
23	10	8	29.800	73.4	73.3
	10	53	29.788	74.2	74.6
	11	44	29.786	75.5	74.6
	12	58	29.782	76.2	75.9
	13	30	......	....	75.1
	13	50	29.784	76.7	75.5
	1	36	29.832	63.2	61.0
	2	7	......	....	61.0
	2	23	29.836	62.5	60.9
24	2	47	29.890	61.5	59.1
	3	4	......	....	60.3
	3	26	29.892	62.0	60.8
	7	15	29.942	68.9	69.7
	7	22	......	....	70.0
	7	40	29.938	70.3	70.8
	8	39	29.932	73.4	73.2
25	10	16	29.912	77.0	75.9
	11	6	......	....	78.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2. Bisections at II, VI, VII.
4. Bisections at I, II, VI.
6. Bisection at I.
7. Bisection at II.
8, 39. Bisections at I, II, III.
9. Bisections at V, VI, VII.
10. Bisections at I, II, VII.
12. Bisections at I, VI.
15. Bisections at I, II.
22, 30. Bisections at II, III, IV, V, VI.
33, 34. Z. D. thread D_1 used.
37. Bisections at II, VI.
38. Bisections at I, VII.
40. Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 1.9	− 6.0	+ 0.1	− 4.0
7	+ 1.9	+ 6.0	...	+ 7.9
8	+ 4.0	+15 50.7	...	+15 54.7
9	+ 3.9	−15 50.7	...	−15 46.8
10	+ 3.3	....	0.0	+ 3.3
22	+26 19.9	−15 56.6	...	+10 23.3
30	+23 25.6	−16 3.1	...	+ 7 22.5
37	+ 2.0	− 6.4	+ 0.1	− 4.3
38	+ 2.0	+ 6.4	...	+ 8.4
39	+ 4.0	−15 51.3	...	−15 47.3
40	+ 4.1	+15 51.3	...	+15 55.4
41	+ 3.5	...	− 0.1	+ 3.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Leonis	9	44 31.25	− 0.22	−26.09	23 44 9.70	27.364	+ 24.3	50.2	11 44	.....	.. ..	....
2	α Canum Venat....	7	51 53.60	− 0.06	−26.12	0 0 8.58	28.705	+ 0.1	50.4	12 51	.....	.. ..	....
3	ε Virginis	9	57 45.64	− 0.22	−26.04	27 22 9.52	27.175	+ 28.4	51.8	12 57	.....	.. ..	....
4	η Bootis............	..	.. ..	....	.....	19 58 8.32	26.935	+ 20.0	51.6	13 50	.....	.. ..	....
5	α Bootis............	9	11 39.30	− 0.18	−26.14	19 10 9.35	26.488	+ 19.1	50.5	14 11	.....	.. ..	....
	August 25, Hd.												
6	λ Ursæ Minoris....	7	20 34.87	+14.21	[−26.01]	309 52	......	....	....	19 20	.....	.. ..	....
7	c Sagittarii.........	9	57 8.60	− 0.42	[−26.00]	66 48	......	....	....	19 56	.....	.. ..	....
8	β Capricorni.......	9	16 0.66	− 0.36	[−26.00]	53 56	......	....	....	20 15	.....	.. ..	....
	August 25, L.												
9	η Tauri.............	9	42 8.92	− 0.21	−26.07	15 2 6.58	29.631	+ 15.4	49.3	3 41	.....	.. ..	....
10	ζ Persei	9	48 27.83	− 0.16	−26.11	7 16 1.78	27.222	+ 7.3	50.5	3 48	.....	.. ..	....
11	A^1 Tauri............	9	59 23.33	− 0.22	−26.05	17 2 4.85	28.088	+ 17.5	48.5	3 58	.....	.. ..	....
12	Moon II, N	9	4 26.99	− 0.25	**−26.06**	21 14 3.32	29.093	+ 22.2	**49.4**	4 4 0.68	−70.65	+17 36 22.2	....
13	γ Tauri.............	9	14 42.07	− 0.25	−26.09	23 28 4.82	26.528	+ 24.8	48.8	4 14	.....	.. ..	....
14	ε Tauri.............	9	23 22.67	− 0.23	−26.00	19 54 10.40	25.889	+ 20.7	49.7	4 22	.....	.. ..	....
	August 25, Br.												
15	ε Geminorum	9	38 22.54	− 0.16	−26.05	13 38 3.92	26.961	+ 13.6	50.6	6 37	.....	.. ..	....
16	α Canis Majoris....	9	41 17.50	− 0.35	−26.03	55 24 0.60	29.785	+1 20.8	49.6	6 40	.....	.. ..	....
17	δ Geminorum	8	14 44.32	− 0.18	−25.97	16 42 4.35	26.674	+ 16.7	49.9	7 14	.....	.. ..	....
18	β Canis Minoris....	9	22 18.04	− 0.24	−25.89	30 22 6.72	27.174	+ 32.5	51.6	7 21	.....	.. ..	....
19	α^2 Geminorum	9	28 48.81	− 0.12	−25.91	6 44 7.72	30.312	+ 6.6	51.2	7 28	.....	.. ..	....
20	Venus I, C.......	4	44 7.14	− 0.20	**−25.94**	20 12 4.15	27.472	+ 20.3	**51.0**	8 43 41.00	+ 0.37	−18 39 10.9	....
21	Venus II	5	44 7.96	− 0.20	**−25.94**	... .	......	....	....	8 43 41.82	− 0.45	.. ..	....
	August 26, Br.												
22	Sun I, N	9	17 15.48	− 0.23	**−25.91**	28 0 7.30	27.377	+ 29.0	**51.0**	10 16 49.34	+64.78	+10 51 1.4	....
23	Sun II, S	9	19 25.03	− 0.23	**−25.91**	28 32 5.90	26.885	+ 29.7	**51.0**	10 18 58.89	−64.77	+10 19 17.1	....
24	Mercury C.......	9	12 2.40	− 0.23	**−25.90**	32 36	......	....	....	11 11 36.27	+ 0.01	.. ..	....
25	α Canum Venat....	8	51 53.43	− 0.07	−25.95	0 0 4.85	28.810	+ 0.1	51.8	12 51	.....	.. ..	....
26	α Virginis	9	20 29.74	− 0.25	−25.87	49 30 2.70	26.708	+1 3.4	51.8	13 20	.....	.. ..	....
27	α Bootis............	8	11 39.00	− 0.15	−25.88	19 10 4.85	26.653	+ 18.9	50.5	14 11	.....	.. ..	....
28	ρ Bootis............	9	28 3.62	− 0.11	−25.79	8 2 6.60	29.918	+ 7.7	51.4	14 27	.....	.. ..	....
29	ε Bootis............	9	41 9.79	− 0.12	−25.76	11 22 3.85	27.458	+ 11.0	51.1	14 40	.....	.. ..	....
30	α Tauri.............	3	30 46.53	− 0.29	−25.70	22 32 1.22	28.322	+ 23.4	49.8	4 30	.....	.. ..	....
31	τ Tauri.............	9	36 50.51	− 0.26	−25.64	16 6 2.50	25.726	+ 16.3	51.5	4 36	.....	.. ..	....
32	ι Aurigæ...........	9	51 5.55	− 0.20	−25.68	5 50 3.58	29.303	+ 5.8	50.8	4 50	.....	.. ..	....
33	Moon II, N......	9	6 24.50	− 0.29	**−25.68**	20 2 1.98	27.084	+ 20.6	**51.1**	5 5 58.53	−71.54	+18 49 24.1	....
34	β Orionis...........	9	10 17.76	− 0.39	−25.69	47 10 3.65	26.015	+1 0.6	51.2	5 9	.....	.. ..	....
35	β Tauri.............	9	20 34.43	− 0.23	−25.68	10 20 4.20	27.450	+ 10.3	52.1	5 20	.....	.. ..	....
	August 26, L.												
36	δ Geminorum	9	14 44.15	− 0.20	−25.75	16 41 58.02	26.822	+ 16.7	50.1	7 14	.....	.. ..	....
37	β Canis Minoris....	9	22 17.99	− 0.27	−25.79	30 22 1.52	27.259	+ 32.4	51.1	7 21	.....	.. ..	....
38	α^2 Geminorum	9	28 48.75	− 0.15	−25.80	6 43 59.22	30.599	+ 6.6	50.8	7 28	.....	.. ..	....
39	β Geminorum	9	39 46.96	− 0.17	−25.77	10 36 3.78	27.042	+ 10.4	51.7	7 39	.....	.. ..	....
40	Venus I, N	9	49 7.48	− 0.22	**−25.75**	20 28 4.00	29.242	+ 20.5	**51.1**	8 48 41.51	+ 0.42	+18 22 20.6	....
41	Venus II, S	9	49 8.41	− 0.22	**−25.75**	20 28 4.00	29.610	+ 20.5	**51.1**	8 48 42.44	− 0.51	+18 22 10.0	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
25 11 45	29.894	79.1	77.3
12 58	29.884	80.8	79.5
13 50	......	....	79.0
14 12	29.872	80.0	78.4
3 42	29.834	61.7	59.2
4 15	......	....	58.5
4 23	29.840	60.4	59.1
6 38	......	...	70.1
6 41	29.858	68.0	....
7 22	......	....	73.3
7 29	29.864	71.9	74.1
8 44	29.866	77.0	78.1
26 10 20	29.848	81.4	82.0
12 57	......	....	82.8
13 20	29.814	84.7	84.0
14 12	29.810	84.2	83.7
14 28	......	....	83.3
14 41	29.804	84.0	83.2
4 31	29.816	66.2	64.1
4 51	......	....	64.8
5 6	......	....	65.0
5 21	29.820	66.7	66.0
7 15	29.840	72.3	73.4
7 22	......	....	74.0
7 40	29.846	74.0	75.1
8 49	29.856	78.2	79.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 4, 25, 36, 37. Z. D. thread D_1 used.
4, 41. Bisections at I, VII.
12, 33. Bisections at II, III, IV, V, VI.
16, 28, 30. Bisections at VI, VII.
22. Bisections at I, II, III.
23. Bisections at V, VI, VII.
27. Bisections at I, II, VII.
32. Bisections at II, VI, VII.
36. Bisections at I, II.
40. Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
12	+21 17.3	−16 8.7	...	+ 5 8.6
20	+ 2.0	....	0.0	+ 2.0
22	+ 4.1	−15 52.1	...	−15 48.0
23	+ 4.2	+15 52.1	...	+15 56.3
33	+20 9.6	−16 13.0	...	+ 3 56.6
40	+ 2.0	− 5.3	0.0	− 3.3
41	+ 2.0	+ 5.3	...	+ 7.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Hydræ	9	23 13.54	− 0.32	−25.65	47 3 59.52	29.080	+ 58.8	50.6	9 22	.....	.. ..	....
	August 27, L.												
2	Sun I, S.	9	20 55.23	− 0.23	**−25.73**	28 52 2.90	28.827	+ 30.1	**51.6**	10 20 29.27	+64.71	+ 9 58 24.0	....
3	Sun II, N.	9	23 4.64	− 0.23	**−25.73**	28 20 2.35	29.507	+ 29.4	**51.6**	10 22 38.68	−64.70	+10 30 6.8	....
4	Mercury C, C	9	18 10.93	− 0.23	**−25.73**	33 22 4.30	28.239	+ 35.8	**51.8**	11 17 44.97	+ 0.02	+ 5 28 34.4	....
5	α Canum Venat	8	51 53.26	− 0.04	−25.82	0 0 2.45	28.915	+ 0.1	52.3	12 51	.....	.. ..	....
6	ε Virginis	7	57 45.26	− 0.17	−25.73	27 22 3.70	27.385	+ 28.2	51.7	12 57	.....	.. ..	...
7	α Virginis	9	20 29.54	− 0.24	−25.69	49 30 5.82	26.624	+1 3.5	52.6	13 20	.....	.. ..	....
8	η Bootis	9	50 28.32	− 0.13	−25.61	19 58 5.08	27.102	+ 19.8	52.8	13 50	.....	.. ..	....
9	α Orionis	9	50 19.97	− 0.25	−25.58	328 24 0.32	29.842	− 34.3	30.5	5 49	.....	.. ..	...
10	ν Orionis	7	2 26.69	− 0.22	−25.61	335 48	......	....	....	6 2	.....	.. ..	....
11	Moon II	9	9 19.49	− 0.22	**−25.55**	339 28	......	....	....	6 8 53.72	−71.73	.. ..	....
12	μ Geminorum	9	17 29.91	− 0.19	−25.51	343 35 59.18	25.868	− 16.4	30.0	6 17	.....	.. ..	....
13	γ Geminorum	9	32 30.88	− 0.22	−25.50	337 30 0.12	28.465	− 23.0	28.9	6 32	.....	.. ..	....
	August 27, R.												
14	α^2 Geminorum	9	28 48.38	− 0.08	−25.47	353 7 52.40	26.330	− 6.6	28.4	7 28	.....	.. ..	....
15	β Geminorum	8	39 46.54	− 0.10	−25.40	349 17 50.58	25.602	− 10.4	28.0	7 39	.....	.. ..	....
16	Venus I, N	4	54 6.77	− 0.14	**−25.39**	339 6 3.22	28.312	− 20.9	**28.4**	8 53 41.24	+ 0.33	+18 4 53.1	....
17	Venus II, S.	5	54 7.49	− 0.14	**−25.39**	339 6 3.22	27.945	− 20.9	**28.4**	8 53 41.96	− 0.39	+18 4 42.7	....
	August 28, R.												
18	Sun II, S.	3	26 43.46	− 0.17	**−25.34**	330 38 2.90	29.647	− 30.7	**28.4**	10 26 17.95	−64.58	+ 9 37 21.6	....
19	α Virginis	9	20 29.14	− 0.23	−25.31	310 22 13.18	29.415	−1 4.5	27.4	13 20	.....	.. ..	....
20	η Bootis	9	50 27.92	− 0.12	−25.23	339 54 10.00	28.992	− 20.0	28.1	13 50	.....	.. ..	....
21	α Bootis	9	11 38.24	− 0.12	−25.18	340 42 10.58	29.498	− 19.1	30.2	14 11	.....	.. ..	....
	August 28, U.												
22	d Sagittarii	9	12 23.52	− 0.33	[−25.26]	301 54	......	....	....	19 11	.....	.. ..	....
23	λ Ursæ Minoris	5	20 36.64	+ 7.60	[−24.71]	50 0	......	....	....	19 20	.....	.. ..	....
24	h Sagittarii	9	31 14.33	− 0.36	[−25.28]	295 56	......	....	....	19 30	.....	.. ..	....
	August 28, Br.												
25	α^2 Geminorum	9	28 47.96	− 0.14	−24.96	353 8	......	....	....	7 28	.....	.. ..	....
26	α Canis Minoris	9	34 37.36	− 0.23	−25.12	326 30 6.75	27.785	− 37.2	28.8	7 34	.....	.. ..	....
27	β Geminorum	9	39 46.26	− 0.15	−25.05	349 16 5.80	29.319	− 10.6	29.1	7 39	.....	.. ..	....
28	Venus I, S.	4	59 5.52	− 0.19	**−25.01**	338 48 1.62	28.128	− 21.5	28.7	8 58 40.32	+ 0.27	+17 46 45.3	....
29	Venus II, N	5	59 6.10	− 0.19	**−25.01**	338 48 1.62	28.542	− 21.5	28.7	8 58 40.90	− 0.31	+17 46 57.2	....
	August 29, Br.												
30	Sun I, S.	9	28 12.99	− 0.22	**−24.98**	330 18 7.62	27.000	− 31.4	**28.4**	10 27 47.79	+64.63	+ 9 16 9.3	....
31	Sun II, N	8	30 22.24	− 0.22	**−24.98**	330 50 9.95	26.303	− 30.8	**28.4**	10 29 57.04	−64.62	+ 9 47 53.3	....
32	Mercury I, C.	9	30 9.01	− 0.22	**−24.95**	324 58 5.45	30.122	− 38.5	**28.3**	11 29 43.84	− 0.17	+ 3 57 29.6	....
33	β Leonis	9	44 30.05	− 0.18	−24.94	336 8 5.35	28.705	− 24.3	28.2	11 44	.....	.. ..	....
34	α Canum Venat	6	51 52.33	− 0.07	−24.88	359 52	......	....	....	12 51	.....	.. ..	....
35	α Virginis	9	20 28.84	− 0.26	−24.99	310 22 4.88	29.720	−1 4.2	28.0	13 20	.....	.. ..	....
36	η Bootis	9	50 27.55	− 0.14	−24.85	339 54 3.02	29.231	− 20.0	28.0	13 50	.....	.. ..	....
37	α Bootis	9	11 37.98	− 0.14	−24 91	340 42 1.78	29.714	− 19.1	27.6	14 11	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
26 9 23	29.856	79.8	79.8
27 10 24	29.848	82.0	81.8
11 18	29.842	84.3	83.3
12 58	29.820	84.9	83.0
13 20	......	....	83.3
13 50	29.818	84.2	81.3
5 50	29.906	68.8	68.4
6 17	......	....	70.0
6 33	29.908	70.8	71.0
7 29	29.924	74.0	73.8
7 40	29.934	74.6	74.3
8 54	29.937	78.7	78.3
28 10 28	29.940	81.0	80.9
13 20	29.938	79.2	77.4
13 50	......	....	79.4
14 12	29.938	80.5	79.6
6 50	30.060	68.0	66.1
7 29	......	....	67.1
7 40	30.066	69.8	68.0
8 59	30.070	74.9	74.2
29 10 31	30.060	79.0	77.7
11 30	30.048	80.0	79.2
11 45	......	....	79.3
13 20	30.022	82.1	80.9
13 50	30.022	82.0	80.2
14 12	30.020	82.8	81.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 5, 6, 8. Z. D. thread D_1 used.
2, 30. Bisections at I, II, III.
3, 18, 31. Bisections at V, VI, VII.
16, 28. Bisections at I, VI.
17, 29. Bisections at II, VI.
26, 33. Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 4.2	+15 51.4	...	+15 55.6
3	+ 4.1	−15 51.3	...	−15 47.2
4	+ 3.7	....	− 0.1	+ 3.6
16	+ 2.0	− 5.2	0.0	− 3.2
17	+ 2.0	+ 5.2	...	+ 7.2
18	+ 4.3	+15 52.2	...	+15 56.5
28	+ 2.1	+ 6.0	...	+ 8.1
29	+ 2.1	− 6.0	+ 0.1	− 3.8
30	+ 4.3	+15 52.0	...	+15 56.3
31	+ 4.2	−15 51.9	...	−15 47.7
32	+ 3.8	....	− 0.1	+ 3.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	August 29, U.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	*d* Sagittarii........	9	12 23.09	− 0.30	[−24.87]	301 54	......	....	....	19 11	.....	.. ..	....
2	λ Ursæ Minoris....	5	20 34.94	+ 8.55	[−25.21]	50 0	......	....	....	19 20	.....	.. ..	....
3	*h* Sagittarii........	9	31 13.93	− 0.32	[−24.93]	295 56	......	....	....	19 30	.....	.. ..	....
	August 30, U.												
4	*d* Sagittarii........	9	12 22.76	− 0.27	[−24.58]	301 54	......	....	....	19 11	.....	.. ..	....
5	λ Ursæ Minoris....	5	20 34.34	+ 5.85	[−23.14]	50 0	......	....	....	19 20	.....	.. ..	....
6	*h* Sagittarii........	9	31 13.59	− 0.28	[−24.64]	295 56	......	....	....	19 30	.....	.. ..	....
	August 31, U.												
7	*d* Sagittarii........	9	12 22.37	− 0.22	[−24.25]	301 54	......	....	....	19 11	.....	.. ..	....
8	λ Ursæ Minoris....	5	20 33.04	+ 7.06	[−24.25]	50 0	......	....	....	19 20	.....	.. ..	....
9	*h* Sagittarii........	9	31 13.14	− 0.24	[−24.24]	295 56	......	....	....	19 30	.....	.. ..	....
	September 4, U.												
10	*d* Sagittarii........	9	12 21.01	− 0.35	[−22.82]	301 54	......	....	....	19 11	.....	.. ..	....
11	λ Ursæ Minoris....	5	20 24.14	+10.17	[−22.76]	50 0	......	....	....	19 20	.....	.. ..	....
12	*h* Sagittarii........	9	31 11.79	− 0.38	[−22.80]	295 56	......	....	....	19 30	.....	.. ..	....
	September 4, S.												
13	θ Geminorum	9	46 44.81	− 0.13	−22.30	355 5 54.70	27.311	− 4.9	27.3	6 46	.....	.. ..	....
14	δ Geminorum	9	14 40.97	− 0.18	−22.36	343 9 59.92	29.761	− 17.3	27.5	7 14	.....	.. ..	....
15	α² Geminorum	9	28 45.63	− 0.14	−22.45	353 8 3.35	25.905	− 6.8	27.7	7 28	.....	.. ..	....
16	β Geminorum	9	39 43.78	− 0.15	−22.39	349 16 3.92	29.326	− 10.8	27.7	7 39	.....	.. ..	....
	September 5, S.												
17	Sun I, N	9	53 35.43	− 0.24	**−22.33**	328 16 3.78	30.012	− 34.9	**26.9**	10 53 12.86	+64.22	+ 7 15 29.2	....
18	Sun II, S........	9	55 43.88	− 0.24	**−22.33**	327 44 2.00	30.502	− 35.6	**26.9**	10 55 21.31	−64.23	+ 6 43 41.7	....
19	Mercury C, C....	9	9 15.52	− 0.27	**−22.32**	319 48 4.92	28.619	− 47.3	**26.7**	12 8 52.93	+ 0.03	− 1 13 21.0	....
20	α Canum Venat....	6	51 49.66	− 0.10	−22.25	359 52 2.78	27.370	− 0.1	26.1	12 51	.....	.. ..	....
21	α Virginis.........	9	20 26.22	− 0.31	−22.38	310 22 6.60	29.699	−1 5.7	27.2	13 20	.....	.. ..	....
22	Moon I..........	9	37 55.17	− 0.32	**−22.30**	310 8	......	....	....	13 37 32.55	+64.28	.. ..	....
23	η Bootis...........	9	50 24.93	− 0.19	−22.27	339 54 5.28	29.090	− 20.4	26.2	13 50	.....	.. ..	....
24	α Bootis...........	9	11 35.32	− 0.19	−22.30	340 42 3.40	29.599	− 19.5	26.0	14 11	.....	.. ..	....
	September 5, U.												
25	*d* Sagittarii........	9	12 20.59	− 0.31	[−22.45]	301 54	......	....	....	19 11	.....	.. ..	....
26	λ Ursæ Minoris ...	5	20 24.84	+ 7.73	[−22.06]	50 0	......	....	....	19 20	.....	.. ..	....
27	*h* Sagittarii........	9	31 11.34	− 0.32	[−22.42]	295 56	......	....	....	19 30	.....	.. ..	....
	September 5, R.												
28	γ Geminorum	9	32 27.78	− 0.16	−22.22	337 30 0.65	28.388	− 23.7	26.5	6 32	.....	.. ..	....
29	α Canis Majoris....	9	41 13.91	− 0.26	−22.26	304 28 4.05	26.775	−1 23.3	28.3	6 40	.....	.. ..	....
30	α² Geminorum	9	28 45.33	− 0.11	−22.15	353 7 54.58	26.171	− 6.8	26.6	7 28	.....	.. ..	....
31	β Geminorum	9	39 43.52	− 0.12	−22.14	349 15 59.20	29.516	− 10.7	27.6	7 39	.....	.. ..	....
32	α Hydræ..........	9	23 10.13	− 0.22	−22.20	312 47 56.52	27.670	−1 0.6	27.6	9 22	.....	.. ..	....
33	Venus I, N	4	38 22.86	− 0.14	**−22.18**	336 5 54.05	30.808	− 24.8	**27.4**	9 38 0.54	+ 0.33	+15 5 52.2	....
34	Venus II, S......	5	38 23.56	− 0.14	**−22.18**	336 5 54.05	30.425	− 24.8	**27.4**	9 38 1.24	− 0.37	+15 5 41.3	....
35	α Leonis	9	3 32.88	− 0.14	−22.14	333 27 52.98	28.272	− 28.0	28.2	10 3	.....	.. ..	....
	September 6, R.												
36	Sun I, N	9	57 11.74	− 0.16	**−22.13**	327 54 4.82	29.492	− 35.0	**27.4**	10 56 49.45	+64.24	+ 6 53 14.9	....
37	Sun II, S........	9	59 20.22	− 0.16	**−22.13**	327 22 4.88	29.840	− 35.7	**27.4**	10 58 57.93	−64.24	+ 6 21 25.1	....
38	Mercury C, C	9	14 31.43	− 0.18	**−22.11**	319 6 7.65	26.626	− 48.2	**27.4**	12 14 9.14	+ 0.03	− 1 56 16.6	....
39	α Virginis.........	9	20 25.82	− 0.21	−22.09	310 22 8.02	29.629	−1 5.3	27.0	13 20	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
4 6 47	30.031	58.0	57.3
7 15	30.037	59.3	58.9
7 29	......	....	59.4
7 40	30.041	60.4	60.2
5 10 56	30.040	67.3	65.8
12 9	30.027	70.0	68.5
12 52	30.016	71.0	68.0
13 20	30.013	72.0	69.2
13 50	30.014	72.4	70.0
14 12	30.010	72.9	70.0
6 32	30.086	58.0	58.8
6 41	......	....	59.1
7 29	......	....	62.5
7 40	30.112	62.5	63.3
9 23	30.117	68.8	68.9
9 38	......	....	69.6
10 4	30.110	71.4	70.5
6 10 59	30.100	73.1	72.0
12 15	30.075	74.0	72.9
13 20	30.050	75.2	73.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

17, 36.	Bisections at I, II, III.
18, 37.	Bisections at V, VI, VII.
20.	Bisections at VI, VII.
33.	Bisections at I, VII.
34.	Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
17	+ 4.6	−15 53.8	...	−15 49.2
18	+ 4.6	+15 53.7	...	+15 58.3
19	+ 4.6	....	− 0.2	+ 4.4
33	+ 2.2	− 5.5	+ 0.1	− 3.2
34	+ 2.2	+ 5.5	...	+ 7.7
36	+ 4.6	−15 54.9	...	−15 50.3
37	+ 4.7	+15 54.8	...	+15 59.5
38	+ 4.6	....	− 0.2	+ 4.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Bootis	9	50 24.62	− 0.10	−22.06	339 54 2.00	29.258	− 20.3	28.0	13 50	.....	.. ..	....
2	α Bootis	9	11 34.95	− 0.10	−22.04	340 42	......	....	....	14 11	.....	.. ..	....
3	Moon I	9	28 56.27	− 0.22	**−22.07**	306 48	......	....	....	14 28 33.98	+64.30	.. ..	....
4	ε Bootis	9	41 5.85	− 0.06	−22.07	348 29 59.58	29.004	− 11.3	26.9	14 40	.....	.. ..	....
5	β Libræ	9	12 8.54	− 0.20	−22.13	311 59 49.65	29.768	−1 1.5	27.1	15 11	.....	.. ..	....
	September 7, S.												
6	ε Bootis	9	41 5.71	− 0.12	−21.89	348 30	......	....	....	14 40	.....	.. ..	....
7	β Bootis	9	58 38.01	− 0.08	−21.82	1 48	......	....	....	14 58	.....	.. ..	....
8	δ Bootis	9	11 56.24	− 0.10	−21.83	354 42	......	....	....	15 11	.....	.. ..	....
9	Moon I	9	20 2.23	− 0.25	**−21.87**	304 10	......	....	....	15 19 40.11	+64.48	.. ..	....
10	α Coronæ Borealis	9	30 55.81	− 0.12	−21.87	348 4	......	....	....	15 30	.....	.. ..	....
11	α Serpentis	9	39 50.59	− 0.17	−21.92	327 46	......	....	....	15 39	.....	.. ..	....
	September 7, R.												
12	α Canis Majoris	9	41 13.78	− 0.30	−22.03	304 28 10.58	26.526	−1 21.4	29.4	6 40	.....	.. ..	....
13	α² Geminorum	9	28 45.16	− 0.08	−21.95	353 7 58.08	26.031	− 6.7	26.4	7 28	.....	.. ..	....
14	β Geminorum	9	39 43.36	− 0.10	−21.94	349 16 1.20	29.440	− 10.5	28.8	7 39	.....	.. ..	....
15	α Hydræ	7	23 9.95	− 0.19	−22.02	312 47 55.60	27.636	− 59.0	27.1	9 22	.....	.. ..	....
16	Venus I, N	4	48 3.81	− 0.10	**−21.96**	335 21 55.20	29.125	− 25.0	**27.7**	9 47 41.75	+ 0.32	+14 21 4.9	....
17	Venus II, S	5	48 4.50	− 0.10	**−21.96**	335 21 55.20	28.725	− 25.0	**27.7**	9 47 42.44	− 0.37	+14 20 53.6	....
18	α Leonis	9	3 32.63	− 0.10	−21.91	333 27 57.88	28.039	− 27.2	27.5	10 3	.....	.. ..	....
	September 8, R.												
19	Sun I, S	9	4 24.41	− 0.10	**−21.96**	326 37 52.65	28.433	− 35.8	**27.6**	11 4 2.35	+64.07	+ 5 36 31.5	....
20	Sun II, N	9	6 32.55	− 0.10	**−21.96**	327 9 52.55	28.012	− 35.1	**27.6**	11 6 10.49	−64.07	+ 6 8 21.1	....
21	Mercury C, C	9	24 50.44	− 0.14	**−21.95**	317 39 58.05	30.386	− 49.2	**27.4**	12 24 28.35	+ 0.03	− 3 20 40.1	....
22	α Bootis	5	11 34.80	− 0.05	−21.96	340 41 55 85	29.867	− 18.9	26.9	14 11	.....	.. ..	....
23	ε Bootis	9	41 5.58	− 0.02	−21.88	348 29 51.60	29.272	− 11.0	27.1	14 40	.....	.. ..	....
24	δ Scorpii	9	54 57.16	− 0.23	−21.94	298 41 58.18	28.006	−1 38.6	27.0	15 54	.....	.. ..	....
25	β¹ Scorpii	9	0 9.15	− 0.22	−21.99	301 29 57.55	28.426	−1 28.1	27.4	15 59	.....	.. ..	....
26	Moon I, N	5	11 22.11	− 0.22	**−21.94**	302 39 55.02	28.267	−1 24.3	**27.1**	16 10 59.95	+64.68	−18 22 18.3	....
27	ζ Ophiuchi	9	32 10.54	− 0.19	−21.94	310 39 54.55	28.096	−1 3.1	27.3	16 31	.....	.. ..	....
	September 10, S.												
28	α Scorpii	9	23 49.08	− 0.33	−21.92	294 50 5.92	27.809	−1 59.7	25.5	16 23	.....	.. ..	....
29	ζ Ophiuchi	9	32 10.48	− 0.26	−21.84	310 40 5.98	27.739	−1 4.8	26.7	16 31	.....	.. ..	....
30	κ Ophiuchi	9	53 26.09	− 0.19	−21.80	330 34 4.25	26.435	− 31.5	27.4	16 53	.....	.. ..	....
31	Moon I, N	9	54 38.83	− 0.29	**21.88**	301 42 1.38	27.050	−1 30.8	**26.3**	17 54 16.66	+64.84	−19 20 52.3	....
32	Saturn I, N	4	32 53.32	− 0.26	**−21.91**	299 8 3.00	29.300	−1 41.0	**26.3**	19 32 31.15	+ 0.70	−21 53 56.7	....
33	Saturn II, S	5	32 54.72	− 0.26	**−21.91**	299 8 3.00	28.642	−1 41.0	**26.3**	19 32 32.55	− 0.70	−21 54 15.2	....
34	c Sagittarii	9	57 4.23	− 0.27	−21.95	293 4 6.00	28.691	−2 11.8	25.8	19 56	.....	.. ..	....
35	α² Capricorni	9	13 2.93	− 0.22	−21.89	308 12 4.55	26.866	−1 11.8	25.7	20 12	.....	.. ..	....
36	π Capricorni	9	22 8.82	− 0.23	−21.97	302 30 2.08	29.522	−1 28.5	26.7	20 21	.....	.. ..	....
37	Jupiter I, N	5	44 13.76	− 0.22	**−21.94**	301 56 3.55	31.222	−1 30.6	**26.3**	20 43 51.60	+ 1.64	−19 4 51.0	....
38	Jupiter II, S	5	44 17.03	− 0.22	**−21.94**	301 56 3.55	29.628	−1 30.6	**26.3**	20 43 54.87	− 1.63	−19 5 36.2	....
39	ζ Capricorni	9	21 30.57	− 0.23	−21.91	298 12 3.85	29.769	−1 45.5	26.5	21 21	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
6 13 50	......	....	74.0
14 12	30.045	75.5	74.2
14 41	......	....	74.0
15 12	30.025	74.8	73.6
7 6 41	29.956	66.7	68.2
7 29	......	....	71.8
7 40	29.964	71.4	72.6
9 23	29.966	79.3	80.0
9 48	......	....	81.9
10 4	29.964	82.4	81.8
8 11 7	29.946	83.9	83.0
12 25	29.918	85.5	84.8
14 12	29.888	85.4	84.8
14 48	29.878	85.0	83.6
15 49	29.864	84.8	83.3
16 0	......	....	83.1
16 11	......	....	83.0
16 28	29.848	83.9	82.5
10 16 24	29.858	70.7	68.5
16 32	29.856	70.4	68.4
16 53	......	...	67.5
17 55	29.864	67.0	64.2
19 33	29.886	64.0	61.8
19 57	29.890	63.8	61.8
20 13	29.892	63.7	61.9
20 22	29.894	63.8	61.9
20 44	29.893	63.0	60.8
21 22	29.897	61.9	59.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

16, 33, 38.	Bisections at I, VII.
17, 32, 37.	Bisections at II, VI.
19.	Bisections at I, II, III.
20.	Bisections at V, VI, VII.
22.	Bisections at I, II, VII.
26.	Bisections at III, IV, V.
31.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
16	+ 2.3	− 5.7	+ 0.1	− 3.3
17	+ 2.3	+ 5.7	...	+ 8.0
19	+ 4.8	+15 54.7	...	+15 59.5
20	+ 4.7	−15 54.8	...	−15 50.1
21	+ 4.9	....	− 0.2	+ 4.7
26	+45 39.0	−14 51.6	...	+30 47.4
31	+45 59.8	−14 48.8	...	+31 11.0
32	+ 0.8	− 9.3	...	− 8.5
33	+ 0.8	+ 9.2	...	+ 10.0
37	+ 1.8	− 22.6	...	− 20.8
38	+ 1.8	+ 22.6	...	+ 24.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	September 10, L.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Geminorum	9	39 43.64	− 0.12	−22.12	349 16 2.75	29.392	− 10.7	29.0	7 39	.....	.. ..	....
2	ε Hydræ	9	41 59.26	− 0.20	−22.14	327 47 57.85	28.198	− 35.4	28.5	8 41	.....	.. ..	....
3	α Lyncis	9	15 28.89	− 0.10	−22.02	355 50 1.58	26.175	− 4.0	26.6	9 15	.....	.. ..	....
4	α Hydræ	9	23 10.11	− 0.25	−22.08	312 48 6.95	27.400	−1 0.3	[30.3]	9 22	.....	.. ..	....
5	ε Leonis	9	40 41.16	− 0.14	−22.14	345 13 59.55	28.981	− 14.7	27.4	9 40	.....	.. ..	....
6	Venus I, N	9	2 29.37	− 0.18	**−22.08**	334 12 0.40	28.810	− 26.9	**27.7**	10 2 7.11	+ 0.44	+13 10 59.3	....
7	Venus II, S......	8	2 30.29	− 0.18	**−22.08**	334 12 0.40	28.435	− 26.9	**27.7**	10 2 8.03	− 0.48	+13 10 48.5	....
	September 11, L.												
8	Sun I, N.........	9	15 12.27	− 0.21	**−22.05**	326 2 1.60	27.803	− 37.4	**27.6**	11 14 50.01	+64.08	+ 5 0 20.9	....
9	Sun II, S.........	9	17 20.43	− 0.21	**−22.05**	325 30 5.82	28.038	− 38.2	**27.6**	11 16 58.17	−64.08	+ 4 28 32.1	....
10	Mercury I, C.....	9	39 46.42	− 0.24	**−22.02**	315 38 3.85	29.511	− 54.1	**27.4**	12 39 24.16	+ 0.19	− 5 23 4.1	....
11	α Canum Venat....	9	51 49.33	− 0.08	−21.99	359 52 2.62	27.357	− 0.1	26.8	12 51	.....	.. ..	....
12	ε Virginis	9	57 41.51	− 0.18	−22.08	332 30 6.52	28.812	− 28.8	27.4	12 57	.....	.. ..	....
13	α Virginis	9	20 25.70	− 0.26	−21.96	310 22 6.28	29.700	−1 4.9	27.4	13 20	.....	.. ..	....
14	η Bootis	9	50 24.59	− 0.16	−22.02	339 54 1.45	29.248	− 20.2	27.7	13 50	.....	.. ..	....
15	μ Sagittarii	9	8 20.03	− 0.30	−22.17	299 58 10.22	26.911	−1 36.6	28.8	18 7	.....	.. ..	....
16	λ Sagittarii	9	22 21.44	− 0.32	−22.15	295 34 1.80	28.930	−1 56.3	27.9	18 21	.....	.. ..	....
17	ι Aquilæ	9	30 18.07	− 0.25	−22.12	312 42 4.25	30.866	−1 0.6	26.9	18 29	.....	.. ..	....
18	Moon I, S	9	46 20.41	− 0.29	**−22.16**	302 4 3.32	25.650	−1 29.3	**28.1**	18 45 57.96	+64.74	−18 59 30.5	....
19	ζ Aquilæ	9	1 19.69	− 0.17	−22.16	334 44 1.28	29.738	− 26.5	27.8	19 0	.....	.. ..	....
20	Vesta	9	13 6.24	− 0.30	**−22.17**	294 8 5.18	30.146	−2 4.5	**28.1**	19 12 43.77	.....	−26 53 55.5	....
21	Saturn I, N......	5	32 47.55	− 0.27	**−22.18**	299 8 5.32	28.600	−1 40.5	**28.1**	19 32 25.10	+ 0.69	−21 54 15.6	....
22	Saturn II, S	4	32 48.93	− 0.27	**−22.18**	299 8 5.32	27.985	−1 40.5	**28.1**	19 32 26.48	− 0.69	−21 54 32.9	....
23	θ Aquilæ	9	6 40.86	− 0.20	−22.19	319 56 0.85	26.768	− 47.4	29.8	20 6	.....	.. ..	....
24	α² Capricorni.......	9	13 3.26	− 0.23	−22.22	308 12 4.58	26.901	−1 11.5	27.1	20 12	.....	.. ..	....
25	π Capricorni.......	9	22 9.03	− 0.24	−22.18	302 30 7.58	29.366	−1 28.2	28.1	20 21	.....	.. ..	....
26	Jupiter I, S	5	43 56.33	− 0.24	**−22.20**	301 56 7.28	27.195	−1 30.3	**28.1**	20 43 33.89	+ 1.71	−19 6 43.5	....
27	Jupiter II, N.....	5	43 59.74	− 0.24	**−22.20**	301 56 7.28	28.745	−1 30.3	**28.1**	20 43 37.30	− 1.70	−19 5 59.2	....
28	μ Aquarii...........	9	47 48.31	− 0.22	−22.19	311 40 5.12	30.622	−1 3.3	28.3	20 47	.....	.. ..	....
	September 11, S.												
29	β Geminorum	9	39 43.56	− 0.14	−21.99	349 16 3.22	29.309	− 10.7	27.2	7 39	.....	.. ..	....
30	β Cancri	9	11 36.18	− 0.20	−22.04	330 30 4.90	28.963	− 31.8	27.4	8 11	.....	.. ..	....
31	α Hydræ	9	23 10.04	− 0.26	−21.98	312 48 3.85	27.395	−1 0.3	27.0	9 22	.....	.. ..	....
32	Venus I, N.......	4	7 16.07	− 0.18	**−22.01**	333 48 2.20	28.472	− 27.4	**26.8**	10 6 53.88	+ 0.40	+12 46 51.9	....
33	Venus II, S......	5	7 16.92	− 0.18	**−22.01**	333 48 2.20	28.060	− 27.4	**26.8**	10 6 54.73	− 0.45	+12 46 40.0	....
34	γ¹ Leonis	9	14 57.86	− 0.15	−22.07	341 22 0.60	26.352	− 18.7	26.1	10 14	.....	.. ..	....
	September 12, S.												
35	Sun I, S.........	9	18 47.89	− 0.19	**−22.01**	325 6 10.95	30.373	− 38.6	**26.6**	11 18 25.69	+64.03	+ 4 5 43.3	....
36	Sun II, N.........	9	20 55.94	− 0.19	**−22.01**	325 38 7.52	30.070	− 37.8	**26.6**	11 20 33.74	−64.02	+ 4 37 33.1	....
37	Mercury I, C.....	9	44 36.27	− 0.22	**−22.00**	315 0 6.72	26.109	− 55.2	**26.4**	12 44 14.05	+ 0.19	− 6 2 38.2	....
38	α Canum Venat....	9	51 49.23	− 0.05	−21.93	359 52 0.55	27.398	− 0.1	26.0	12 51	.....	.. ..	....
39	α Virginis	9	20 25.78	− 0.23	−22.08	310 22 0.85	29.836	−1 4.7	26.0	13 20	.....	.. ..	....
40	α Bootis	9	11 34.84	− 0.12	−21.98	340 42 3.85	29.566	− 19.2	26.4	14 11	.....	.. ..	....
41	ρ Bootis	9	27 59.49	− 0.08	−21.98	351 50 1.40	26.359	− 7.9	26.7	14 27	.....	.. ..	....
42	μ Sagittarii........	9	8 19.98	− 0.28	−22.16	299 57 59.50	27.294	−1 36.4	29.2	18 7	.....	.. ..	....
43	λ Sagittarii	9	22 21.38	− 0.30	−22.13	295 34 3.60	28.850	−1 56.0	27.9	18 21	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
10	7	40	29.964	60.0	61.6
	8	42	......	....	66.7
	9	15	......	....	69.2
	9	23	29.984	69.2	69.9
	9	41	......	....	70.1
	10	2	29.982	70.8	70.8
11	11	18	29.978	73.2	72.3
	12	40	29.960	75.1	74.0
	12	58	......	....	74.1
	13	20	......	....	74.7
	13	50	29.946	76.8	74.7
	18	8	29.942	71.3	68.6
	18	46	......	....	67.2
	19	33	29.958	68.0	65.9
	20	7	......	....	65.0
	20	48	29.968	66.1	64.0
	7	40	29.984	63.0	63.5
	8	12	29.990	64.9	65.6
	9	23	29.984	70.0	69.9
	10	7	......	....	71.5
	10	15	29.979	72.2	71.9
12	11	21	29.972	74.8	74.1
	12	45	29.938	76.0	74.3
	12	52	......	....	75.3
	13	20	29.924	76.1	75.6
	14	12	29.914	77.3	76.0
	14	28	29.908	77.3	76.3
	18	8	29.872	70.6	68.6
	18	22	......	....	68.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 5, 30, 34.	Z. D. thread D_1 used.
2.	Bisections at VI, VII.
6, 21, 26, 32.	Bisections at II, VI.
7, 22, 27, 33.	Bisections at I, VII.
8, 35.	Bisections at I, II, III.
9, 36.	Bisections at V, VI, VII.
11, 30, 34.	Bisections at II, VI, VII.
18	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 2.4	− 5.4	0.0	− 3.0
7	+ 2.4	+ 5.4	...	+ 7.8
8	+ 4.9	−15 54.4	...	−15 49.5
9	+ 4.9	+15 54.4	...	+15 59.3
10	+ 5.2	....	− 0.3	+ 4.9
18	+45 58.7	+14 51.9	...	+60 50.6
20	+ 5.1	....	...	+ 5.1
21	+ 0.8	− 8.6	...	− 7.8
22	+ 0.8	+ 8.7	...	+ 9.5
26	+ 1.8	+ 22.1	...	+ 23.9
27	+ 1.8	− 22.2	...	− 20.4
32	+ 2.4	− 6.0	+ 0.1	− 3.5
33	+ 2.4	+ 6.0	...	+ 8.4
35	+ 5.0	+15 54.9	...	+15 59.9
36	+ 4.9	−15 54.8	...	−15 49.9
37	+ 5.3	....	− 0.3	+ 5.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ι Aquilæ	9	30 18.03	— 0.24	—22. 11	312 42 4.18	30.851	—1 0.4	26. 5	18 29	....	.. ..	....
2	σ Sagittarii	9	49 37.56	— 0.30	—22. 23	294. 38 3.90	27.945	—2 1.4	28. 1	18 49	.....	.. ..	....
3	Saturn I, N	4	32 41.87	— 0.27	**—22.17**	299 8 1.70	28.125	—1 40.0	**27.6**	19 32 19.43	+ 0.66	—21 54 31.7	....
4	Saturn II, S	5	32 43.19	— 0.27	**—22.17**	299 8 1.70	27.505	—1 40.1	**27.6**	19 32 20.75	— 0.66	—21 54 49.3	....
5	Moon I, S	9	37 52.51	— 0.26	**—22.17**	303 46 5.02	28.201	—1 23.5	**27.6**	19 37 30.08	+64.55	—17 16 9.8	....
6	α² Capricorni	9	13 3.21	— 0.23	—22. 19	308 12 0.78	26.995	—1 11.1	26. 4	20 12	.....	.. ..	....
7	π Capricorni	9	22 8.99	— 0.25	—22. 15	302 30 2.02	29.528	—1 27.7	27. 7	20 21	.....	.. ..	....
8	Jupiter I, S	5	43 39.50	— 0.25	**—22.18**	301 54 2.78	29.272	—1 29.8	**27.6**	20 43 17.07	+ 1.61	—19 7 47.6	....
9	Jupiter II, N	5	43 42.72	— 0.25	**—22.18**	301 54 2.78	30.865	—1 29.7	**27.6**	20 43 20.29	— 1.61	—19 7 2.3	....
10	μ Aquarii	9	47 48.27	— 0.22	—22. 16	311 39 59.32	30.786	—1 2.9	27. 6	20 47	.....	.. ..	....
11	ζ Capricorni	9	21 30.88	— 0.26	—22. 20	298 12 5.15	29.712	—1 44.4	27. 3	21 21	.....	.. ..	....
	September 13, L.												
12	ι Aquilæ	9	30 18.53	— 0.26	—22. 61	312 44 7.05	26.619	—1 1.6	27. 6	18 29	.....	.. ..	....
13	σ Sagittarii	9	49 38.04	— 0.34	—22. 69	294 38 4.80	28.035	—2 3.8	29. 2	18 49	.....	.. ..	....
14	d Sagittarii	9	12 20.71	— 0.31	—22. 69	301 54	......	....	....	19 11	.....	.. ..	....
15	Vesta	9	14 15.03	— 0.35	**—22.66**	294 10 2.42	25.959	—2 6.6	**29.1**	19 13 52.02	.....	—26 54 0.7	....
16	δ Aquilæ	9	20 59.59	— 0.24	—22. 65	323 58 3.32	26.209	— 41.6	30. 0	19 20	.....	.. ..	....
17	Saturn I, S	4	32 37.17	— 0.33	**—22.67**	299 8 5.48	26.948	—1 42.2	**29.1**	19 32 14.17	+ 0.69	—21 55 5.2	....
18	Saturn II, N	5	32 38.55	— 0.33	**—22.67**	299 8 5.48	27.565	—1 42.2	**29.1**	19 32 15.55	— 0.69	—21 54 47.4	....
19	θ Aquilæ	9	6 41.37	— 0.27	—22. 66	319 56 1.52	26.808	— 48.1	30. 8	20 6	.....	.. ..	....
20	α² Capricorni	9	13 3.81	— 0.31	—22. 72	308 12 4.72	26.964	—1 12.6	28. 0	20 12	.....	.. ..	....
21	π Capricorni	9	22 9.61	— 0.33	—22. 70	302 30 5.35	29.510	—1 29.6	28. 6	20 21	.....	.. ..	....
22	Moon I, S	9	29 12.54	— 0.32	**—22.68**	306 18 2.75	28.468	—1 17.9	**29.1**	20 28 49.54	+64.36	—14 44 0.4	....
23	Jupiter I, N	5	43 23.71	— 0.34	**—22.68**	301 54 6.02	28.775	—1 31.9	**29.1**	20 43 0.69	+ 1.71	—19 8 2.3	....
24	Jupiter II, S	5	43 27.14	— 0.34	**—22.68**	301 54 6.02	27.192	—1 31.9	**29.1**	20 43 4.12	— 1.72	—19 8 47.3	....
25	μ Aquarii	9	47 48.83	— 0.31	—22. 64	311 42 4.10	26.531	—1 4.4	29. 6	20 47	.....	.. ..	....
	September 14, L.												
26	ι Aquilæ	9	30 18.80	— 0.27	—22. 89	312 44 5.55	26.652	—1 1.7	26. 9	18 29	.....	.. ..	....
27	σ Sagittarii	9	49 38.31	— 0.35	—22. 97	294 38 2.78	28.020	—2 4.0	26. 6	18 49	.....	.. ..	....
28	d Sagittarii	9	12 20.94	— 0.31	—22. 94	301 54 2.08	30.200	—1 31.5	27. 9	19 11	.....	.. ..	....
29	Vesta	9	14 52.04	— 0.34	**—22.93**	294 10 5.62	25.966	—2 6.6	**27.2**	19 14 28.77	.....	—26 53 55.4	....
30	δ Aquilæ	9	20 59.78	— 0.23	—22. 86	323 58 1.70	26.182	— 41.6	27. 6	19 20	.....	.. ..	....
31	Saturn I, S	4	32 32.64	— 0.31	**—22.94**	299 8 4.38	26.390	—1 42.3	**27.2**	19 32 9.39	+ 0.65	—21 55 20.4	....
32	Saturn II, N	5	32 33.94	— 0.31	**—22.94**	299 8 4.38	26.988	—1 42.3	**27.2**	19 32 10.69	— 0.65	—21 55 3.2	....
33	π Capricorni	9	22 9.82	— 0.28	—22. 97	302 30 3.42	29.525	—1 29.8	27. 0	20 21	.....	.. ..	....
34	ψ Capricorni	9	40 44.99	— 0.29	—23. 03	295 26	......	....	....	20 40	.....	.. ..	....
35	Jupiter I, S	5	43 8.48	— 0.27	**—23.00**	301 52 8.10	29.185	—1 32.1	**27.2**	20 42 45.21	+ 1.70	—19 9 46.8	....
36	Jupiter II, N	5	43 11.88	— 0.27	**—23.00**	301 52 8.10	30.728	—1 32.0	**27.2**	20 42 48.61	— 1.70	—19 9 2.6	....
37	μ Aquarii	9	47 49.11	— 0.24	—22. 99	311 42 3.35	26.468	—1 4.5	27. 0	20 47	.....	.. ..	....
38	Moon I, S	9	20 23.84	— 0.24	**—23.02**	309 34 0.12	27.818	—1 9.5	**27.2**	21 20 0.58	+64.27	—11 28 11.3	....
39	β Aquarii	9	26 51.06	— 0.22	—23. 01	315 1 56.92	28.486	— 57.5	27. 2	21 26	.....	.. ..	....
	September 14, S.												
40	α Lyncis	6	15 29.88	— 0.11	—22. 91	355 49 59.75	26.152	— 4.1	24. 7	9 15	.....	.. ..	....
41	α Hydræ	9	23 11.09	— 0.30	—22. 94	312 48 4.68	27.312	—1 1.4	24. 4	9 22	.....	.. ..	....
42	α Leonis	9	3 33.76	— 0.21	—22. 84	333 28 2.22	27.785	— 28.4	26. 1	10 3	.....	.. ..	....
43	γ¹ Leonis	8	14 58.75	— 0.17	—22. 91	341 22 2.45	26.321	— 19.1	24. 6	10 14	.....	.. ..	....
44	Venus I, N	4	21 32.65	— 0.21	**—22.90**	332 34 2.98	27.338	— 29.4	**24.9**	10 21 9.54	+ 0.37	+11 32 20.2	....
45	Venus II, S	5	21 33.42	— 0.21	**—22.90**	332 34 2.98	26.890	— 29.4	**24.9**	10 21 10.31	— 0.40	+11 32 7.4	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
12 18 30	29.876	69.9	67.9
18 50	29.876	69.2	67.3
19 38	29.866	68.1	66.4
20 13	29.856	67.8	66.0
20 22	......	....	65.7
20 48	29.846	67.0	65.2
21 22	29.848	66.4	64.5
13 18 30	29.934	61.8	59.1
19 14	......	....	57.8
19 33	29.950	59.8	57.6
20 7	......	....	57.3
20 48	29.968	58.0	55.9
14 18 30	29.998	63.1	59.1
19 21	29.992	60.9	58.1
20 22	29.988	58.9	56.1
21 27	29.994	57.0	54.8
9 15	30.048	61.0	61.0
9 23	......	....	61.2
10 4	30.048	63.8	62.3
10 15	......	....	62.8
10 22	30.048	64.9	63.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 9, 17, 23, 31, 35, 44.	Bisections at II, VI.
4, 8, 18, 24, 32, 36, 45.	Bisections at I, VII.
5, 22, 38.	Bisections at II, III, IV, V, VI.
28.	Bisections at I, II.
37.	Bisections at II, VI, VII.
41.	Bisections at VI, VII.
42.	Z. D. thread D₁ used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 0.8	— 8.8	...	— 8.0
4	+ 0.8	+ 8.8	...	+ 9.6
5	+45 22.6	+14 57.6	...	+60 20.2
8	+ 1.8	+ 22.6	...	+ 24.4
9	+ 1.8	— 22.7	...	— 20.9
15	+ 5.0	....	...	+ 5.0
17	+ 0.8	+ 8.9	...	+ 9.7
18	+ 0.8	— 8.9	...	— 8.1
22	+44 22.2	+15 5.6	...	+59 27.8
23	+ 1.8	— 22.5	...	— 20.7
24	+ 1.8	+ 22.5	...	+ 24.3
29	+ 4.9	....	...	+ 4.9
31	+ 0.8	+ 8.6	...	+ 9.4
32	+ 0.8	— 8.6	...	— 7.8
35	+ 1.8	+ 22.1	...	+ 23.9
36	+ 1.8	— 22.1	...	— 20.3
38	+42 52.8	+15 15.3	...	+58 8.1
44	+ 2.5	— 6.5	+ 0.2	— 3.8
45	+ 2.5	+ 6.5	...	+ 9.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	September 15, S.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N.........	9	29 34.77	− 0.25	**−22.90**	324 30 10.90	28.047	− 40.3	**24.9**	11 29 11.62	+64.01	+ 3 28 37.0	....
2	Sun II, S........	9	31 42.79	− 0.25	**−22.90**	323 58 6.92	28.515	− 41.1	**24.9**	11 31 19.64	−64.01	+ 2 56 46.6	....
3	α Canum Venat....	9	51 50.20	− 0.06	−22.91	359 51 59.05	27.336	− 0.1	23.4	12 51	.....	.. ..	....
4	Mercury C, C....	9	58 39.51	− 0.29	**−22.90**	313 3 57.85	29.720	−1 0.1	**24.9**	12 58 16.32	+ 0.05	− 7 57 7.6	....
5	α Virginis.........	8	20 26.73	− 0.30	−22.98	310 24 2.02	25.619	−1 6.1	25.5	13 20	.....	.. ..	....
6	η Bootis...........	7	50 25.42	− 0.16	−22.89	339 54 1.52	29.165	− 20.5	25.5	13 50	.....	.. ..	....
7	α Bootis...........	9	11 35.69	− 0.16	−22.83	340 41 59.65	29.675	− 19.6	25.2	14 11	.....	.. ..	....
8	μ Capricorni.......	9	48 24.55	− 0.25	−23.16	307 0 5.62	31.628	−1 16.0	26.7	21 48	.....	.. ..	....
9	α Aquarii..........	9	1 12.22	− 0.22	−23.10	320 14 3.75	28.812	− 47.6	28.6	22 0	.....	.. ..	....
10	Moon I, S	9	11 39.81	− 0.24	**−23.12**	313 25 58.55	27.327	−1 0.7	**28.0**	22 11 16.45	+64.36	− 7 36 18.8	....
11	π Aquarii..........	9	20 43.54	− 0.21	−23.13	321 54 3.98	29.926	− 45.0	29.3	22 20	.....	.. ..	....
12	σ Aquarii..........	9	25 54.94	− 0.24	−23.08	309 50 6.30	31.480	−1 8.8	27.4	22 25	.....	.. ..	....
	September 16, L.												
13	ζ Pegasi...........	9	37 2.26	− 0.20	−23.68	331 22 12.35	25.754	− 31.4	28.9	22 36	.....	.. ..	....
14	λ Aquarii..........	9	47 58.03	− 0.26	−23.73	312 56 9.20	28.495	−1 1.9	29.5	22 47	.....	.. ..	....
15	Moon I, S	9	3 22.14	− 0.25	**−23.71**	317 42 6.00	31.280	− 52.4	**29.1**	23 2 58.18	+64.75	− 3 18 7.3	....
16	Moon N	..	.. ....	....	.....	318 14 10.85	30.598	− 51.5	**29.1**	.. ..	.....	− 2 46 30.6	....
17	φ Aquarii..........	9	9 42.70	− 0.25	−23.71	314 28 4.32	27.338	− 58.8	29.4	23 9	.....	.. ..	....
18	θ Piscium	9	23 27.67	− 0.21	−23.71	326 52 11.50	28.611	− 37.6	28.7	23 23	.....	.. ..	....
	September 17, L.												
19	β Canis Minoris....	9	22 16.76	− 0.19	−24.10	329 30 6.32	29.101	− 33.9	28.8	7 21	.....	.. ..	....
20	α² Geminorum	9	28 47.70	− 0.12	−24.15	353 8 3.40	25.868	− 6.9	27.7	7 28	.....	.. ..	....
21	α Canis Minoris....	9	34 36.86	− 0.20	−24.18	326 30 5.20	27.870	− 38.1	28.5	7 34	.....	.. ..	....
22	β Geminorum	9	39 45.79	− 0.13	−24.06	349 15 58.90	29.506	− 10.8	28.9	7 39	.....	.. ..	....
23	Venus I, C.......	9	35 42.74	− 0.16	**−24.13**	331 16 2.45	28.359	− 31.0	**27.7**	10 35 18.45	− 0.40	+10 14 44.4	....
24	Venus II	9	35 43.57	− 0.16	**−24.13**	... .	......	....	....	10 35 19.28	− 0.43	.. ..	....
	September 18, L.												
25	Sun I, S.........	9	40 21.63	− 0.18	**−24.14**	322 48 1.10	29.947	− 42.8	**27.7**	11 39 57.31	+64.01	+ 1 47 16.0	....
26	Sun II, N........	9	42 29.66	− 0.18	**−24.14**	323 20 3.68	29.573	− 42.0	**27.7**	11 42 5.34	−64.02	+ 2 19 9.8	....
27	α Bootis...........	9	11 36.95	− 0.12	−24.16	340 42 2.82	29.598	− 19.5	26.6	14 11	.....	.. ..	....
28	ε Bootis...........	9	41 7.71	− 0.09	−24.09	348 29 58.22	28.899	− 11.3	26.1	14 40	.....	.. ..	....
29	α Coronæ Borealis..	9	30 57.86	− 0.09	−24.16	348 4 2.55	27.849	− 11.8	27.3	15 30	.....	.. ..	....
30	α Serpentis........	9	39 52.69	− 0.16	−24.20	327 46 4.20	27.174	− 35.3	28.0	15 39	.....	.. ..	....
31	44 Piscium	9	20 51.16	− 0.17	−24.34	322 26 3.48	27.762	− 44.0	29.4	0 20	.....	.. ..	....
32	δ Piscium	9	44 4.32	− 0.16	−24.35	328 4 5.85	30.050	− 35.7	29.4	0 43	.....	.. ..	....
33	Moon II, N......	9	52 11.14	− 0.16	**−24.36**	327 18 4.22	29.452	− 36.8	**30.0**	0 51 46.62	−66.56	+ 6 17 9.3	....
34	ε Piscium	9	58 19.86	− 0.16	−24.36	328 24 5.48	27.208	− 35.4	30.3	0 57	....	.. ..	....
35	f Piscium	9	13 13.02	− 0.17	−24.37	324 8 5.48	27.748	− 41.6	30.8	1 12	.....	.. ..	....
	September 22, Hd.												
36	27 Piscium	9	54 9.23	− 0.09	[−25.86]	316 56	......	....	....	23 53	.....	.. ..	....
37	30 Piscium	9	57 25.95	− 0.10	[−25.89]	314 28	......	....	....	23 56	.....	.. ..	....
38	6 B. Ursæ Minoris S. P.	9	13 58.40	− 6.23	[−25.81]	52 46	......	....	....	12 13	.....	.. ..	....
	September 22, L.												
39	ε Tauri............	9	23 23.27	− 0.04	−25.97	339 58 12.85	29.992	− 20.5	29.3	4 22	.....	.. ..	....
40	α Tauri............	9	30 47.42	− 0.05	−26.04	337 20 8.25	28.024	− 23.5	30.2	4 30	.....	.. ..	....
41	τ Tauri............	9	36 51.44	− 0.02	−25.99	343 48 8.62	26.421	− 16.3	29.0	4 36	.....	.. ..	....
42	Moon II, N......	9	47 53.18	− 0.04	**−26.00**	339 26 12.62	29.400	− 21.1	**29.5**	4 47 27.14	−71.23	+18 25 32.3	....
43	11 Orionis..........	9	59 27.52	− 0.05	−25.98	336 18 7.65	26.615	− 24.7	29.4	4 59	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
15 11 32	30.036	65.8	64.8
12 52	....	....	66.0
12 59	30.012	68.0	66.5
13 20	30.007	68.5	66.2
13 50	29.997	69.0	66.9
14 12	29.994	69.1	67.1
21 48	30 000	57.5	55.9
22 1	....	....	55.9
22 12	30.003	57.1	55.8
22 26	30.002	57.2	55.6
16 22 37	30.088	58.7	56.1
23 10	....	....	55.1
23 23	30.088	57.8	55.0
17 7 22	30.036	56.3	55.6
7 40	30.036	56.8	56.2
10 36	30.042	66.0	64.0
18 11 42	30.030	67.7	65.0
14 12	29.968	70.8	68.8
14 41	....	...	68.3
15 31	....	....	68.4
15 40	29.952	70.8	68.4
0 21	29.946	58.0	57.0
1 13	29.838	55.2	51.8
22 4 23	29.778	63.9	63.0
4 48	....	....	62.3
4 59	29.790	63.8	62.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 15, 25.	Bisections at I, II, III.
2, 26.	Bisections at V, VI, VII.
10, 42.	Bisections at II, III, IV, V, VI.
16.	Bisections at VI, VII.
28.	Z. D. thread D_1 used.
33.	Bisections at II, IV, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 5.1	−15 55.2	...	−15 50.1
2	+ 5.1	+15 55.2	...	+16 0.3
4	+ 5.8	....	− 0.3	+ 5.5
10	+40 50.5	+15 25.9	...	+56 16.4
15	+38 14.5	+15 36.6	− 0.1	+53 51.0
16	+37 50.9	−15 36.6	...	+22 14.3
23	+ 2.6	....	0.0	+ 2.6
25	+ 5.3	+15 56.9	...	+16 2.2
26	+ 5.2	−15 56.8	...	−15 51.6
33	+31 15.5	−15 55.5	...	+15 20.0
42	+20 33.2	−16 11.3	...	+ 4 21.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	September 23, Hd.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	27 Piscium	9	54 9.65	− 0.08	[−26. 28]	316 56	......	....	....	23 53	.....	.. ..	....
2	30 Piscium	9	57 26.32	− 0.10	[−26. 25]	314 28	......	....	....	23 56	.....	.. ..	....
3	6 B. Ursæ Minoris s. p.	9	13 59.28	− 6.48	[−26. 54]	52 46	......	....	....	12 13	.....	.. ..	....
	September 23, S.												
4	χ Aurigæ	9	26 50.69	+ 0.03	−26. 09	353 8 4.55	28.110	− 6.7	28. 1	5 26	.....	.. ..	....
5	ε Orionis	9	31 43.58	− 0.12	−26. 18	319 46 0.90	27.905	− 47.5	29. 5	5 31	.....	.. ..	....
6	Moon II, N.	9	50 11.61	− 0.04	−26.11	339 46 2.88	26.474	− 20.7	28.2	5 49 45.46	−71.32	+18 44 0.9	....
7	μ Geminorum	9	17 31.11	− 0.02	−26. 07	343 36 1.35	25.719	− 16.5	28. 0	6 17	.....	.. ..	....
8	γ Geminorum	9	32 32.06	− 0.04	−26. 10	337 30 3.42	28.289	− 23.2	27. 2	6 32	.....	.. ..	....
	September 28, L.												
9	α Lyncis	9	15 39.26	+ 0.08	−32. 15	355 49 51.05	26.490	− 4.0	28. 2	9 15	.....	.. ..	....
10	α Hydræ	9	23 20.53	− 0.19	−32. 23	312 47 56.32	27.749	− 59.9	29. 5	9 22	.....	.. ..	....
11	ε Leonis	9	40 51.42	+ 0.01	−32. 21	345 14 0.95	28.958	− 14.6	28. 4	9 40	.....	.. ..	....
12	α Leonis	9	3 43.17	− 0.07	−32. 16	333 27 59.22	28.002	− 27.6	29. 0	10 3	.....	.. ..	....
13	Venus I, C.	9	26 57.13	− 0.11	−32.16	326 12 5.52	27.804	− 36.8	28.1	11 26 24.86	+ 0.41	+ 5 10 25.5	....
14	Venus II	9	26 57.97	− 0.11	−32.16	... .	......	....	....	11 26 25.70	+ 0.43	.. ..	....
	September 29, L.												
15	Sun I, N.	9	20 2.61	− 0.15	−32.15	319 3 59.65	28.080	− 47.5	27.8	12 19 30.31	+64.26	− 1 57 43.6	....
16	Sun II, S	8	22 11.13	− 0.15	−32.15	318 31 59.52	28.085	− 48.4	27.8	12 21 38.83	−64.26	− 2 29 43.1	....
17	η Bootis	9	50 34.44	− 0.00	−32. 17	339 53 57.75	29.196	− 19.9	27. 3	13 50	.....	.. ..	....
18	α Bootis	9	11 44.69	+ 0.01	−32. 14	340 41 58.82	29.680	− 19.1	26. 8	14 11	.....	.. ..	....
19	ρ Bootis	9	28 9.20	+ 0.10	−32.09	351 49 58.45	26.299	− 7.8	27. 1	14 27	.....	.. ..	....
20	ε Bootis	9	41 15.38	+ 0.08	−32. 07	348 30 0.55	28.875	− 11.1	27. 2	14 40	.....	.. ..	....
	September 29, Hd.												
21	27 Piscium	9	54 15.47	− 0.15	[−32. 02]	316 56	......	....	....	23 53	.....	.. ..	....
22	30 Piscium	9	57 32.15	− 0.16	[−32.00]	314 28	......	....	....	23 56	.....	.. ..	....
23	6 B. Ursæ Minoris s. p.	9	14 6.12	− 8.60	[−31. 04]	52 46	......	....	....	12 13	.....	.. ..	....
	September 30, R.												
24	α Leonis	9	3 42.74	− 0.05	−31. 71	333 28 1.02	27.891	− 27.4	28. 1	10 3	.....	.. ..	....
25	γ¹ Leonis	4	15 7.61	0.00	−31. 68	341 21 54.98	26.558	− 18.5	26. 9	10 14	.....	.. ..	....
26	Venus I, N	4	36 8.51	− 0.10	−31.67	325 14 2.15	28.360	− 37.9	27.5	11 35 36.74	+ 0.28	+ 4 12 37.4	....
27	Venus II, S.	5	36 9.09	− 0.10	−31.67	325 14 2.15	28.015	− 37.9	27.5	11 35 37.32	− 0.30	+ 4 12 27.6	....
	October 1, R.												
28	Sun I, N	9	27 16.02	− 0.14	−31.66	318 18 6.05	26.465	− 48.6	27.5	12 26 44.22	+64.26	− 2 44 23.8	....
29	Sun II, S	9	29 24.54	− 0.14	−31.66	317 46 6.30	26.365	− 49.5	27.5	12 28 52.74	−64.26	− 3 16 26.4	....
30	α Virginis	9	20 35.25	− 0.18	−31. 66	310 22 2.32	29.798	−1 4.0	26. 6	13 20	.....	.. ..	....
31	η Bootis	9	50 33.89	− 0.01	−31. 62	339 54 2.38	29.134	− 19.9	28. 1	13 50	.....	.. ..	....
32	α Bootis	7	11 44.19	− 0.01	−31. 63	340 42	......	....	....	14 11	.....	.. ..	....
33	ε Bootis	9	41 14.97	+ 0.04	−31. 64	348 29 56.22	29.027	− 11.1	27. 7	14 40	.....	.. ..	....
	October 1, Hd.												
34	27 Piscium	9	54 15.18	− 0.12	[−31. 75]	316 56	......	....	....	23 53	.....	.. ..	....
35	30 Piscium	9	57 31.82	− 0.14	[−31. 69]	314 28	......	....	....	23 56	.....	.. ..	....
36	6 B. Ursæ Minoris s. p.	9	14 5.89	− 8.15	[−31. 24]	52 46	......	....	....	12 13	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
23 5 27	29.774	64.7	63.0
5 32	......	....	63.0
6 18	29.776	64.6	63.1
6 33	29.778	64.9	63.3
28 9 16	29.644	64.9	66.8
9 23	......	....	67.1
9 41	......	....	68.3
10 4	29.650	68.0	70.0
11 27	29.670	72.8	73.0
29 12 22	29.666	74.3	74.4
13 51	29.650	76.6	76.0
14 12	......	....	76.0
14 28	......	....	76.1
14 41	29.648	77.1	76.5
30 10 4	29.478	70.2	70.4
10 15	......	....	71.1
11 14	29.497	72.7	. ..
11 36	......	....	72.6
11 48	29.512	74.0	72.8
1 12 30	29.516	74.6	73.8
13 21	29.527	75.2	74.2
13 51	......	....	74.3
14 18	29.547	75.9	....
14 41	29.56	76.0	73.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

6. Bisections at II, III, IV, V, VI.
15. Bisection at I.
16, 25, 30. Bisections at VI, VII.
17, 19. Z. D. thread D₁ used.
26. Bisections at I, VII.
27. Bisections at II, VI.
28. Bisections at I, II, III.
29. Bisections at V, VI.
33. Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+20 14.5	−16 10.7	...	+ 4 3.8
13	+ 3.0	....	0.0	+ 3.0
15	+ 5.7	−15 59.7	...	−15 54.0
16	+ 5.8	+15 59.7	...	+16 5.5
26	+ 3.1	− 4.9	0.0	− 1.8
27	+ 3.1	+ 4.9	...	+ 8.0
28	+ 5.8	−16 1.2	...	−15 55.4
29	+ 5.9	+16 1.3	...	+16 7.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	October 1, L.												
			m s	s	s	° ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Lyncis	9	15 38.86	+ 0.04	−31.63	355 49 57.48	26.178	− 4.1	26.1	9 15	.....	.. ..	....
2	α Hydræ	9	23 20.14	− 0.23	−31.73	312 48 3.42	27.464	−1 1.1	27.4	9 22	.....	.. ..	....
3	ε Leonis	9	40 50.98	− 0.03	−31.66	345 14 2.00	28.845	− 14.9	26.4	9 40	.....	.. ..	....
4	α Leonis	9	3 42.78	− 0.11	−31.67	333 28 5.22	27.740	− 28.2	27.3	10 3	.....	.. ..	....
	October 2, L.												
5	Sun I, S	9	30 53.27	− 0.19	**−31.61**	317 22 7.40	27.813	− 51.5	**26.5**	12 30 21.47	+64.39	− 3 39 46.0	....
6	Sun II, N	9	33 2.06	− 0.19	**−31.61**	317 54 7.82	27.837	− 50.5	**26.5**	12 32 30.26	−64.40	− 3 7 42.8	....
7	α Bootis	9	11 44.23	− 0.05	−31.64	340 42 4.52	29.435	− 19.5	25.4	14 11	.....	.. ..	....
8	ρ Bootis	9	28 8.71	+ 0.02	−31.55	351 50 2.40	26.204	− 8.0	26.4	14 27	.....	.. ..	....
9	ε Bootis	9	41 14.91	0.00	−31.55	348 30 1.18	28.838	− 11.3	27.2	14 40	.....	.. ..	....
10	δ Bootis	9	12 5.28	+ 0.04	−31.46	354 41 59.87	27.762	− 5.1	24.7	15 11	.....	.. ..	....
11	α Coronæ Borealis..	9	31 4.99	0.00	−31.60	348 4 4.22	27.738	− 11.7	27.6	15 30	.....	.. ..	....
	October 2, Hd.												
12	27 Piscium	9	54 14.92	− 0.15	[−31.46]	316 56	......	....	....	23 53	.....	.. ..	....
13	30 Piscium	9	57 31.64	− 0.16	[−31.49]	314 28	......	....	....	23 56	.....	.. ..	....
14	6 B.Ursæ Minoris S.P..	7	14 5.76	− 8.17	[−31.10]	52 46	......	....	....	12 13	.....	.. ..	....
	October 2, S.												
15	α Lyncis	9	15 38.41	+ 0.05	−31.17	355 49 59.60	26.076	− 4.1	25.5	9 15	.....	.. ..	....
16	α Hydræ	9	23 19.70	− 0.22	−31.28	312 48 4.42	27.409	−1 1.5	26.4	9 22	.....	.. ..	....
17	ε Leonis	9	40 50.63	− 0.02	−31.30	345 13 58.98	28.929	− 15.0	25.8	9 40	.....	.. ..	....
18	α Leonis	9	3 42.46	− 0.10	−31.34	333 28 1.20	27.879	− 28.3	27.2	10 3	.....	.. ..	....
19	Venus I, S	4	45 18.79	− 0.13	**−31.21**	324 16 0.75	27.105	− 40.5	**25.8**	11 44 47.45	+ 0.30	+ 3 13 59.4	....
20	Venus II, N	5	45 19.41	− 0.13	**−31.21**	324 16 0.75	27.468	− 40.5	**25.8**	11 44 48.07	− 0.32	+ 3 14 9.7	....
	October 3, S.												
21	Sun I, N	9	34 30.54	− 0.17	**−31.19**	317 30 6.90	29.422	− 51.3	**25.6**	12 33 59.18	+64.42	− 3 30 59.5	....
22	Sun II, S	9	36 39.38	− 0.17	**−31.19**	316 58 6.62	29.387	− 52.3	**25.6**	12 36 8.02	−64.42	− 4 3 0.7	....
23	α Bootis	9	11 43.75	− 0.06	−31.15	340 42 1.38	29.515	− 19.5	24.8	14 11	.....	.. ..	....
24	ε Bootis	9	41 14.52	− 0.01	−31.16	348 29 57.10	28.926	− 11.3	25.7	14 40	.....	.. ..	....
25	β Bootis	9	58 46.65	+ 0.10	−31.13	1 47 55.40	27.347	+ 1.8	26.3	14 58	.....	.. ..	....
26	δ Bootis	9	12 4.91	+ 0.04	−31.10	354 42 4.15	27.672	− 5.1	24.2	15 11	.....	.. ..	....
	October 5, L.												
27	α Leonis	9	3 41.76	− 0.12	−30.56	26 24 2.15	28.501	+ 28.0	47.2	10 3	.....	.. ..	....
28	γ^1 Leonis	9	15 6.68	− 0.06	−30.59	18 29 54.60	30.276	+ 18.9	47.2	10 14	.....	.. ..	....
29	δ Leonis	9	9 25.95	− 0.04	−30.56	17 47 53.62	27.345	+ 18.1	47.2	11 8	.....	.. ..	....
30	β Leonis	4	44 35.76	− 0.07	−30.60	23 44 2.75	27.575	+ 24.7	47.5	11 44	.....	.. ..	....
	October 6, L.												
31	Sun I, N	5	45 24.87	− 0.18	**−30.57**	43 30 4.05	29.660	+ 53.0	**47.4**	12 44 54.12	+64.57	− 4 40 27.9	....
32	Sun II, S	9	47 34.01	− 0.18	**−30.57**	44 2 5.60	29.700	+ 54.0	**47.4**	12 47 3.26	−64.57	− 5 12 30.6	....
33	α Bootis	9	11 43.11	− 0.02	−30.56	19 10 2.75	26.741	+ 19.4	47.0	14 11	.....	.. ..	....
34	α Serpentis	6	39 58.71	− 0.10	−30.53	32 6 10.80	28.879	+ 34.9	48.3	15 39	.....	.. ..	....
35	β Herculis	9	26 32.37	0.00	−30.57	17 8 14.18	28.771	+ 17.3	47.4	16 26	.....	.. ..	....
36	Moon I	9	41 49.47	− 0.25	**−30.54**	58 0	......	....	....	16 41 18.68	+64.79	.. ..	....
37	κ Ophiuchi	9	53 34.26	− 0.08	−30.54	29 18 8.08	29.646	+ 31.4	47.5	16 53	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
1	9	16	29.874	60.6	60.7
	9	23	......	....	61.0
	9	41	......	....	61.8
	10	4	29.882	62.9	62.8
2	12	33	29.884	68.3	67.0
	14	12	29.868	71.0	69.5
	14	28	......	....	69.7
	14	41	29.870	71.8	69.8
	15	12	......	....	70.1
	15	31	29.862	72.8	70.1
	9	16	29.948	58.5	58.5
	9	23	......	....	59.0
	9	41	29.949	59.9	59.6
	10	4	29.950	61.0	60.9
	11	45	29.938	65.9	65.0
3	12	37	29.928	67.9	66.5
	14	12	29.890	70.4	68.8
	14	41	29.884	71.5	69.7
	14	59	29.880	72.0	69.8
	15	12	29.877	72.0	70.0
5	10	4	29.574	60.8	60.0
	10	15	......	....	60.7
	11	9	29.590	64.0	63.0
	11	45	29.600	64.8	63.8
6	12	48	29.603	66.4	65.0
	14	12	29.598	68.6	67.0
	15	40	.....	....	67.8
	16	27	29.616	68.0	66.1
	16	54	29.624	67.7	65.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 21, 31. Bisections at I, II, III.
6, 22, 25, 32. Bisections at V, VI, VII.
10, 30. Z. D. thread D_1 used.
19. Bisections at I, VII.
20. Bisections at II, VI.
30. Bisections at I, II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 5.9	+16 1.6	...	+16 7.5
6	+ 5.9	−16 1.6	...	−15 55.7
19	+ 3.1	+ 5.2	...	+ 8.3
20	+ 3.1	− 5.2	+ 0.1	− 2.0
21	+ 5.9	−16 0.6	...	−15 54.7
22	+ 6.0	+16 0.5	...	+16 6.5
31	+ 6.1	−16 1.4	...	−15 55.3
32	+ 6.1	+16 1.3	...	+16 7.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	October 6, Hd.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	27 Piscium	9	54 13.87	— 0.19	[—30.38]	42 56	......	....	....	23 53	.....	.. ..	....
2	30 Piscium	9	57 30.54	— 0.21	[—30.34]	45 24	......	....	...	23 56	.....	.. ..	....
3	6 B. Ursæ Minoris S. P.	7	14 8.86	—12.38	[—29.96]	307 8	......	....	....	12 13	.....	.. ..	....
	October 7, S.												
4	α Scorpii	9	23 56.71	— 0.28	—30.07	65 2	......	....	....	16 23	.....	.. ..	....
5	ζ Ophiuchi	9	32 18.11	— 0.20	—29.97	49 12	......	....	....	16 31	.....	.. ..	....
6	Moon I..........	9	33 33.37	— 0.24	**—30.02**	54 24	......	....	....	17 33 3.11	+64.76	.. ..	....
7	μ Herculis.........	9	43 9.01	0.00	—30.01	11 4	......	....	....	17 42	.....	.. ..	....
8	γ² Sagittarii	9	0 4.17	— 0.31	—30.05	69 14	......	....	....	17 59	.....	.. ..	....
	October 8, L.												
9	α Leonis	9	3 40.87	— 0.11	—29.62	26 24 14.45	28.022	+ 28.5	46.0	10 3	.....	.. ..	....
10	γ¹ Leonis	9	15 5.77	— 0.06	—29.62	18 30 14.98	29.609	+ 19.2	46.1	10 14	.....	.. ..	....
11	δ Leonis	9	9 25.06	— 0.06	—29.60	17 48 15.28	26.488	+ 18.2	46.3	11 8	.....	.. ..	....
12	β Leonis	9	44 34.87	— 0.09	—29.66	23 44 17.25	27.058	+ 24.8	47.0	11 44	.....	.. ..	....
13	Venus I, N.......	9	12 45.38	— 0.18	**—29.59**	38 34 9.55	27.838	+ 44.7	**46.7**	12 12 15.61	+ 0.44	+ 0 16 26.6	....
14	Venus II, S	9	12 46.27	— 0.18	**—29.59**	38 34 9.55	28.190	+ 44.7	**46.7**	12 12 16.50	— 0.45	+ 0 16 16.6	....
·	October 9, L.												
15	Sun I, S	9	56 21.93	— 0.21	**—29.58**	45 12 4.38	27.462	+ 56.3	**46.8**	12 55 52.14	+64.80	— 6 21 29.5	....
16	Sun II, N	9	58 31.54	— 0.21	**—29.58**	44 40 3.15	27.407	+ 55.3	**46.8**	12 58 1.75	—64.81	— 5 49 24.7	....
17	α Bootis..........	9	11 42.08	— 0.06	—29.51	19 10 14.90	26.324	+ 19.4	46.8	14 11	.....	.. ..	....
18	δ Ophiuchi	9	9 44.18	— 0.17	—29.49	42 16 4.98	29.609	+ 50.5	47.8	16 9	.....	.. ..	....
19	β Herculis.........	9	26 31.37	— 0.04	—29.58	17 8 13.65	28.716	+ 17.2	47.3	16 26	.....	.. ..	....
20	ζ Ophiuchi	9	32 17.59	— 0.20	—29.48	49 12 7.35	28.238	+1 4.4	46.9	16 31	.....	.. ..	....
21	ζ Aquilæ	9	1 26.41	— 0.08	—29.50	25 8 7.72	26.392	+ 26.4	46.6	19 0	.....	.. ..	....
22	d Sagittarii	9	12 26.98	— 0.24	—29.51	57 58 7.78	26.069	+1 29.6	48.1	19 11	.....	.. ..	....
23	Moon I, S	9	16 13.98	— 0.24	**—29.49**	56 50 8.50	26.158	+1 25.8	**47.1**	19 15 44.25	+64.35	—17 59 25.1	....
24	δ Aquilæ..........	9	21 5.86	— 0.13	—29.47	35 56 5.62	25.834	+ 40.7	46.7	19 20	.....	.. ..	....
25	Saturn I, N......	4	32 51.84	— 0.25	**—29.49**	60 46 8.88	27.365	+1 40.3	**47.1**	19 32 22.10	+ 0.62	—21 56 14.4	....
26	Saturn II, S	5	32 53.08	— 0.25	**—29.49**	60 46 8.88	27.950	+1 40.3	**47.1**	19 32 23.34	— 0.62	—21 56 30.8	....
27	β Aquilæ..........	9	51 2 51	— 0.12	—29.49	32 40 6.52	28.926	+ 36.2	46.9	19 50	.....	.. ..	....
	October 9, S.												
28	ε Leonis	9	40 48.67	— 0.07	—29.13	14 38 8.70	27.269	15.5	47.8	9 40	.....	.. ..	....
29	α Leonis	9	3 40.39	— 0.14	—29.09	26 24 7.35	28.276	+ 29.3	46.8	10 3	.....	.. ..	....
30	γ¹ Leonis	9	15 5.31	— 0.09	—29.11	18 30 6.42	29.836	+ 19.8	46.7	10 14	.....	.. ..	....
31	Venus I, N	4	17 19.55	— 0.18	**—29.08**	39 4 8.98	27.412	+ 47.4	**46.8**	12 16 50.29	+ 0.29	— 0 13 23.3	....
32	Venus II, S......	5	17 20.13	— 0.18	**—29.08**	39 4 8.98	27.750	+ 47.4	**46.8**	12 16 50.87	— 0.29	— 0 13 33.0	....
	October 10, S.												
33	Sun I, N.........	9	0 1.68	— 0.21	**—29.07**	45 2 0.15	29.087	+ 58.2	**46.8**	12 59 32.40	+64.76	— 6 12 13.5	....
34	Sun II, S	9	2 11.21	— 0.21	**—29.07**	45 34 1.95	29.233	+ 59.3	**46.8**	13 1 41.93	—64.77	— 6 44 19.5	....
35	α Bootis..........	9	11 41.62	— 0.05	—29.06	19 10 5.68	26.605	+ 20.1	46.1	14 11	.....	.. ..	....
36	d Sagittarii	9	12 26.46	— 0.29	—28.96	57 58 8.05	25.951	+1 32.1	47.4	19 11	.....	.. ..	....
37	δ Aquilæ..........	9	21 5.36	— 0.18	—28.93	35 56 4.32	25.825	+ 41.9	46.1	19 20	.....	.. ..	....
38	α Aquilæ..........	9	46 32.05	— 0.15	—28.90	30 14 8.02	27.090	+ 33.8	45.7	19 46	.....	.. ..	....
39	β Aquilæ..........	9	51 1.98	— 0.16	—28.93	32 40 5.00	28.914	+ 37.2	46.1	19 50	.....	.. ..	....
40	Moon I, S	9	7 1.28	— 0.28	**—28.93**	54 38 13.12	31.182	+1 21.6	**46.3**	20 6 32.07	+64.12	—15 49 49.5	....
41	ε Delphini	9	29 4.03	— 0.14	—28.93	27 52	......	....	....	20 28	.....	.. ..	....
42	α Delphini	9	35 37.37	— 0.11	—28.99	23 16 4.28	28.618	+ 25.0	46.0	20 35	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
8 10 4	29.988	57.2	58.0
10 15	......	....	59.1
11 9	30.000	64.0	65.0
11 45	30.000	67.0	68.7
12 13	......	....	70.0
9 12 58	29.992	70.5	71.2
14 12	29.978	73.0	73.1
16 10	29.970	75.1	74.0
16 27	......	....	74.0
16 32	29.970	75.1	74.0
19 1	29.980	70.8	69.0
19 21	......	....	68.3
19 51	29.992	69.0	67.2
9 41	30.208	50.2	47.0
10 4	......	....	47.7
10 15	30.204	50.9	47.8
12 17	30.194	56.7	53.0
10 13 2	30.176	57.9	55.0
14 12	30.145	59.3	57.5
19 12	30.082	58.8	56.2
19 21	......	....	56.0
19 54	30.078	57.5	55.0
20 7	......	....	54.5
[illegible] 36	30.069	56.8	54.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

10.	Z. D. thread D_2 used.
11, 12, 18, 19.	Z. D. thread D_1 used.
13, 25, 32.	Bisections at II, VI.
14, 26, 31.	Bisections at I, VII.
15, 33.	Bisections at I, II, III.
16, 34, 37.	Bisections at V, VI, VII.
23, 40.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
13	+ 3.3	— 5.0	0.0	— 1.7
14	+ 3.3	+ 5.0	...	+ 8.3
15	+ 6.3	+16 2.4	...	+16 8.7
16	+ 6.2	—16 2.3	...	—15 56.1
23	+45 27.3	+14 51.7	...	+60 19.0
25	+ 0.8	— 8.2	...	— 7.4
26	+ 0.8	+ 8.2	...	+ 9.0
31	+ 3.3	— 4.9	+ 0.1	— 1.5
32	+ 3.3	+ 4.9	...	+ 8.2
33	+ 6.3	—16 3.0	...	—15 56.7
34	+ 6.3	+16 3.0	...	+16 9.3
40	+44 37.2	+14 58.2	...	+59 35.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	October 12, S.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Aquarii..........	9	26 56. 29	− 0.13	−28. 63	44 50 8.62	27.859	+ 56.1	47. 4	21 26	.....	.. ..	....
2	ξ Aquarii..........	9	33 4.45	− 0.14	−28. 62	47 8 4.18	26.771	+1 0.7	47. 2	21 32	.....	.. ..	....
3	Moon I, S	9	48 11.31	− 0.14	**−28.61**	48 12 6.30	29.323	+1 3.1	**47.3**	21 47 42.56	+64.13	− 9 22 30.2	....
4	θ Aquarii..........	9	12 12.23	− 0.14	−28. 63	47 6 2.95	28.150	+1 0.7	47. 0	22 11	.....	.. ..	....
5	σ Aquarii..........	9	26 0.16	− 0.15	−28. 56	50 0 6.07	28.875	+1 7.4	47. 6	22 25	.....	.. ..	....
	October 12, L.												
6	α Leonis	9	3 40.06	− 0.03	−28. 80	26 24 11.50	28.170	+ 28.2	46. 4	10 3	.....	.. ..	....
7	γ^1 Leonis	9	15 5.00	+ 0.02	−28. 84	18 30 0.70	29.981	+ 19.0	46. 2	10 14	.....	.. ..	....
8	δ Leonis	9	9 24.18	+ 0.02	− 28. 73	17 48 4.45	26.878	+ 18.1	45. 8	11 8	.....	.. ..	....
9	Venus I, N	9	31 3.33	− 0.11	**−28.75**	40 34 10.32	26.478	+ 47.6	**46.8**	12 30 34.47	+ 0.41	−1 42 58.2	....
10	Venus II, S......	9	31 4.17	− 0.11	**−28.75**	40 34 10.32	26.818	+ 47.6	**46.8**	12 30 35.31	− 0.43	−1 43 7.9	....
	October 13, L.												
11	Sun I, N.........	9	11 4.61	− 0.13	**−28.74**	46 10 1.70	28.915	+ 57.7	**47.0**	13 10 35.74	+65.00	− 7 20 9.4	....
12	Sun II, S	9	13 14.62	− 0.13	**−28.74**	46 42 5.28	28.903	+ 58.8	**47.0**	13 12 45.75	−65.01	− 7 52 12.7	....
13	α Bootis...........	9	11 41.21	+ 0.04	−28. 74	19 10 11.08	26.491	+ 19.2	46.9	14 11	.....	.. ..	....
14	ε Bootis...........	9	41 11.92	+ 0.09	−28. 74	11 22 10.60	27.219	+ 11.1	47. 2	14 40	.....	.. ..	....
15	α Coronæ Borealis .	9	31 1.82	+ 0.10	−28. 67	11 48 10.62	28.292	+ 11.5	47. 2	15 30	.....	.. ..	....
16	α Serpentis........	9	39 56.69	− 0.01	−28. 67	32 6 5.68	29.031	+ 34.5	48. 8	15 39	.....	.. ..	....
17	α Aquarii..........	9	1 17.39	− 0.04	−28. 69	39 38 9.85	27.326	+ 46.1	48. 8	22 0	.....	.. ..	....
18	γ Aquarii..........	9	17 8.11	− 0.05	−28. 69	40 44 7.40	25.466	+ 47.9	48. 5	22 16	.....	.. ..	....
19	η Aquarii..........	9	30 51.71	− 0.04	−28. 69	39 28 10.60	26.454	+ 45.9	48. 6	22 30	.....	.. ..	....
20	Moon I, S	9	39 17.56	− 0.06	**−28.70**	44 8 8.05	28.470	+ 54.1	**48.4**	22 38 48.80	+64.55	− 5 17 57.6	....
21	λ Aquarii..........	9	48 2.71	− 0.07	−28. 73	46 56 7.30	27.635	+ 59.6	48. 6	22 47	.....	.. ..	....
22	ω Piscium	9	54 49.46	− 0.01	−28. 70	32 32 7.75	25.604	+ 35.6	47. 4	23 54	....	.. ..	....
	October 14, S.												
23	λ Aquarii..........	9	48 2.39	− 0.21	−28. 27	46 56 11.28	27.372	+1 2.6	48. 0	22 47	.....	.. ..	....
24	φ Aquarii..........	9	9 47.09	− 0.20	−28. 23	45 24 7.55	28.786	+ 59.4	47. 0	23 9	.....	.. ..	....
25	Moon I, S	9	31 25.89	− 0.17	**−28.21**	39 42 0.68	28.692	+ 48.7	**46.7**	23 30 57.51	+65.34	−0 51 52.9	....
26	ω Piscium	6	54 49.06	− 0.13	−28. 18	32 32 7.30	25.506	+ 37.4	46. 0	23 54	.....	.. ..	....
27	6 B. Ursæ Minoris S. P.	4	14 7.22	−10.60	[−28. 77]	307 8	......	....	....	12 13	.....	.. ..	....
28	12 Ceti..............	9	25 34.67	− 0.19	−28. 24	43 20 14.75	27.179	+ 55.4	46. 3	0 25	.....	.. ..	....
29	δ Piscium	9	44 8.27	− 0.13	−28. 15	31 48 8.95	25.868	+ 36.4	46. 2	0 43	.....	.. ..	....
30	α Ursæ Minoris	5	25 22.60	+14.98	[−26. 92]	310 6	......	....	....	1 25	.....	.. ..	....
	October 14, R.												
31	α Hydræ..........	9	23 16.86	− 0.23	−28. 14	47 3 56.75	28.894	+1 3.6	45. 9	9 22	.....	.. ..	....
32	ε Leonis	9	40 47.86	− 0.02	−28. 23	14 37 54.12	27.748	+ 15.4	45. 7	9 40	.....	.. ..	....
33	α Leonis	9	3 39.49	− 0.10	−28. 12	26 23 57.80	28.659	+ 29.2	47. 4	10 3	.....	.. ..	....
34	γ^1 Leonis	9	15 4.46	− 0.05	−28. 18	18 30 2.05	29.979	+ 19.7	45. 4	10 14	.....	.. ..	....
35	δ Leonis	9	9 23.72	− 0.05	−28. 16	17 47 58.47	27.184	+ 18.8	46. 5	11 8	....	.. ..	....
36	β Leonis	8	44 33.41	− 0.08	−28. 12	23 43 58.50	27.778	+ 25.6	46. 2	11 44	.....	.. ..	....
37	Venus I, N	4	40 13.30	− 0.19	**−28.12**	41 31 59.57	30.210	+ 51.3	**46.4**	12 39 44.99	+ 0.32	− 2 42 37.9	....
38	Venus II, S......	5	40 13.95	− 0.19	**−28.12**	41 31 59.57	30.588	+ 51.3	**46.4**	12 39 45.64	− 0.33	− 2 42 48.7	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
12 21 27	29.700	63.4	62.0
21 48	29.704	62.5	62.1
22 12	......	....	61.8
22 26	29.710	61.9	60.8
10 4	29.714	57.8	60.0
10 15	......	.. .	60.9
11 9	29.716	63.6	64.9
12 31	29.710	68.8	69.8
13 13 13	29.700	70.9	71.0
14 12	29.676	73.0	72.8
14 41	......	....	73.4
15 31	......	....	75.0
15 40	29.672	76.0	75.0
22 1	29.668	69.7	68.4
22 17	29.670	69.4	67.9
22 39	......	....	67.3
22 48	......	....	67.1
23 55	29.660	67.8	66.2
14 22 48	29.900	49.9	47.2
23 10	29.919	49.4	47.0
23 31	......	....	46.6
23 55	......	....	46.3
0 26	29.902	48.2	45.9
0 44	29.908	48.2	45.5
9 23	29.970	43.7	43.1
9 41	......	....	44.7
10 4	......	....	46.2
10 15	29.968	46.9	47.0
11 9	29.970	50.2	50.1
11 45	29.963	52.4	52.0
12 40	29.952	55.0	53.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 20, 25. Bisections at II, III, IV, V, VI.
7, 8, 14, 16. Z. D. thread D_1 used.
9, 38. Bisections at II, VI.
10, 37. Bisections at I, VII.
11. Bisections at I, II, III.
12. Bisections at V, VI, VII.
32. Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+41 42.5	+15 18.9	...	+57 1.4
9	+ 3.4	− 4.9	+ 0.1	− 1.4
10	+ 3.4	+ 4.9	...	+ 8.3
11	+ 6.4	−16 1.6	...	−15 55.2
12	+ 6.4	+16 1.7	...	+16 8.1
20	+39 29.6	+15 31.8	...	+55 1.4
25	+36 44.5	+15 45.3	...	+52 29.8
37	+ 3.5	− 5.4	0.0	− 1.9
38	+ 3.5	+ 5.4	...	+ 8.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	October 15, R.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N	9	18 28.68	− 0.23	**−28.11**	46 53 58.98	30.323	+1 1.6	**46.4**	13 18 0.34	+65.14	− 8 4 51.3	....
2	Sun II, S	7	20 38.97	− 0.23	**−28.11**	47 25 51.98	30.977	+1 2.8	**46.4**	13 20 10.63	−65.15	− 8 37 3.1	....
3	α Bootis..........	7	11 40.68	− 0.06	−28.12	19 9 53.52	27.069	+ 20.0	46.1	14 11	.....	.. ..	....
4	α Coronæ Borealis..	9	31 1.28	0.00	−28.05	11 47 52.58	28.908	+ 12.0	46.8	15 30	.....	.. ..	....
5	δ Ophiuchi........	9	9 42.71	− 0.20	−28.06	42 15 52.02	30.100	+ 51.9	47.6	16 9	.....	.. ..	....
6	α Scorpii..........	9	23 54.71	− 0.34	−28.12	65 1 58.10	28.271	+2 2.1	46.1	16 23	.....	.. ..	....
7	ζ Ophiuchi........	9	32 16.08	− 0.24	−28.01	49 11 57.20	28.520	+1 6.1	46.5	16 31	.....	.. ..	....
8	ι Piscium	9	35 26.71	− 0.13	−28.04	33 44 13.05	28.508	+ 38.9	46.5	23 34	.....	.. ..	....
9	ω Piscium	9	54 48.93	− 0.12	−28.06	32 30 13.20	29.518	+ 37.1	46.0	23 54	.....	.. ..	....
10	33 Piscium	9	0 51.33	− 0.19	−28.04	45 6 11.05	25.979	+ 58.4	46.6	0 0	.....	.. ..	....
11	6 B. Ursæ Minoris s. p.	3	14 5.43	−10.20	[−27.20]	307 8	......	....	....	12 13	.....	.. ..	....
12	Moon I, S.........	9	25 12.50	− 0.14	**−28.02**	35 8 10.45	27.358	+ 41.0	**46.6**	0 24 44.34	+66.52	+ 3 42 42.9	....
13	δ Piscium	9	44 8.13	− 0.12	−28.02	31 48 14.92	25.709	+ 36.1	47.3	0 43	.....	.. ..	....
14	ε Piscium	9	58 23.68	− 0.12	−28.01	31 28 11.38	28.701	+ 35.7	46.7	0 57	.....	.. ..	....
15	*f* Piscium	9	13 16.83	− 0.14	−27.96	35 44 11.88	28.188	+ 42.0	46.7	1 12	.....	.. ..	....
16	α Ursæ Minoris	5	25 22.70	+14.43	[−26.36]	310 6	......	....	....	1 25	.....	.. ..	....
	October 15, L.												
17	γ¹ Leonis	9	15 4.46	− 0.05	−28.15	18 30 3.78	29.864	+ 19.3	45.7	10 14	.....	.. ..	....
18	46 Leonis Minoris ..	9	48 19.74	+ 0.05	−28.09	4 6 5.05	29.702	+ 4.2	45.6	10 47	.....	.. ..	....
19	δ Leonis	9	9 23.69	− 0.04	−28.12	17 48 5.92	26.908	+ 18.4	45.5	11 8	.....	.. ..	....
20	Venus I, C.......	9	44 48.61	− 0.16	**−28.10**	42 2 2.50	29.942	+ 50.8	**46.4**	12 44 20.35	+ 0.42	− 3 12 32.7	....
21	Venus II	9	44 49.46	− 0.16	**−28.10**	... .	......	....	....	12 44 21.20	− 0.43	.. ..	....
	October 16, L.												
22	Sun I, S.........	9	22 11.78	− 0.18	**−28.10**	47 50 9.68	26.663	+1 2.0	**46.7**	13 21 43.50	+65.41	− 8 59 17.8	....
23	Sun II, N........	8	24 22.60	− 0.18	**−28.10**	47 18 3.42	26.640	+1 0.9	**46.7**	13 23 54.32	−65.41	− 8 27 8.8	....
24	α Bootis...........	9	11 40.65	− 0.04	−28.11	19 10 9.05	26.545	+ 19.5	46.1	14 11	.....	.. ..	....
25	α Coronæ Borealis .	9	31 1.25	0.00	−28.03	11 48 10.62	28.253	+ 11.7	47.9	15 30	.....	.. ..	....
26	α Serpentis........	8	39 56.14	− 0.09	−28.06	32 6 0.80	29.175	+ 35.1	48.4	15 39	.....	.. ..	....
27	β Herculis.........	9	26 29.77	− 0.02	−28.11	17 8 7.08	28.991	+ 17.3	47.7	16 26	.....	.. ..	....
28	6 B. Ursæ Minoris s. p.	9	14 4.60	− 9.28	[−27.14]	307 8	......	....	....	12 13	.....	.. ..	....
29	δ Piscium	9	44 8.11	− 0.10	−28.02	31 48 9.68	25.918	+ 35.6	47.5	0 43	.....	.. ..	....
30	ε Piscium	9	58 23.68	− 0.10	−28.03	31 28 11.20	28.744	+ 35.2	47.3	0 57	.....	.. ..	....
31	Moon I, N.......	9	21 10.50	− 0.09	**−28.03**	30 7 59.00	29.557	+ 33.4	**46.8**	1 20 42.38	+68.01	+ 8 42 3.6	....
32	Moon S	..	.. ..	....	.....	30 39 59.80	30.790	+ 34.1	**46.8**	.. ..	.....	+ 8 9 18.7	....
33	α Ursæ Minoris	5	25 27.73	+13.12	[−29.93]	310 6	......	....	....	1 25	.....	.. ..	....
34	π Piscium	9	32 26.54	− 0.08	−28.03	27 11 55.95	28.101	+ 29.6	45.5	1 31	.....	.. ..	....
35	ο Piscium	9	40 45.43	− 0.09	−28.03	30 10 2.52	28.960	+ 33.4	47.1	1 40	.....	.. ..	....
	October 18, L.												
36	6 B. Ursæ Minoris s. p.	7	14 5.61	−10.56	[−26.61]	307 8	......	....	....	12 13	.....	.. ..	....
37	ε Piscium	9	58 22.97	− 0.04	[−27.37]	31 28	......	....	....	0 57	.....	.. ..	....
38	α Ursæ Minoris	7	25 24.53	+15.04	[−28.26]	310 6	......	....	....	1 25	.....	.. ..	....
39	ε Arietis	9	54 8.33	+ 0.02	−27.37	17 54 5.40	27.465	+ 18.6	47.1	2 53	.....	.. ..	....
40	ζ Arietis	9	9 47.98	+ 0.02	−27.43	18 10 3.38	27.625	+ 18.9	46.4	3 9	.....	.. ..	....
41	Moon II, N......	9	23 4.67	0.00	**−27.39**	22 58 3.15	27.941	+ 24.4	**46.6**	3 22 37.28	−71.05	+ 15 52 50.2	....
42	*f* Tauri...........	9	25 59.38	− 0.02	−27.36	26 14 2.35	29.089	+ 28.4	46.9	3 25	.....	.. ..	....
43	η Tauri...........	9	42 11.42	+ 0.04	−27.39	15 2 5.48	29.380	+ 15.5	46.1	3 41	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
15 13 20	29.944	56.4	55.2
14 12	29.910	58.2	56.9
15 31	29.883	60.1	58.0
16 10	......	....	58.6
16 24	......	....	58.7
16 32	29.860	61.0	58.6
23 35	29.825	51.0	48.6
0 1	......	....	48.3
0 25	29.820	50.0	48.1
0 44	......	....	48.0
0 58	......	....	47.9
1 13	29.826	49.3	47.3
10 15	29.856	51.5	55.0
10 48	......	....	57.3
11 9	29.868	57.0	59.0
12 45	29.882	64.3	65.8
16 13 24	29.876	66.0	66.7
14 12	29.858	67.9	68.0
15 31	29.840	69.8	68.9
15 40	......	....	69.0
16 26	29.840	70.3	69.0
0 44	29.864	57.4	56.0
1 41	29.870	57.2	55.8
18 2 54	29.960	57.5	56.8
3 42	29.950	57.2	56.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 22, 31.	Bisections at I, II, III.
2, 23, 32.	Bisections at V, VI, VII.
5, 25.	Bisections at II, VI, VII.
7.	Bisections at I, II, VII.
12, 41.	Bisections at II, III, IV, V, VI.
15.	Bisections at VI, VII.
17, 18, 25, 26, 27.	Z. D. thread D₁ used.

31, 32. Moon in partial eclipse.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 6.5	−16 5.9	...	−15 59.4
2	+ 6.5	+16 5.9	...	+16 12.4
12	+33 31.9	+15 58.2	...	+49 30.1
20	+ 3.5	....	0.0	+ 3.5
22	+ 6.6	+16 4.4	...	+16 11.0
23	+ 6.5	−16 4.5	...	−15 58.0
31	+29 34.8	−16 7.8	...	+13 27.0
32	+30 4.0	+16 7.8	+ 0.1	+46 11.9
41	+23 15.4	−16 22.0	...	+ 6 53.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	October 19, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ο¹ Eridani	9	7 35.56	− 0.12	−26.82	45 56 2.98	27.329	+ 59.0	49.2	4 7	.....	.. ..	....
2	γ Tauri	9	14 44.01	− 0.01	−26.79	23 27 58.28	26.602	+ 24.8	47.3	4 14	.....	.. ..	....
3	Moon II, N......	9	26 4.79	0.00	**−26.81**	20 53 59.32	26.750	+ 21.9	**48.1**	4 25 37.98	−71.97	+17 57 32.0	....
4	τ Tauri	9	36 52.95	+ 0.03	−26.81	16 5 55.32	25.739	+ 16.5	47.9	4 36	.....	.. ..	....
5	i Tauri	9	46 9.51	0.00	−26.83	20 9 58.78	29.139	+ 21.0	47.6	4 45	.....	.. ..	....
6	α Orionis..........	9	50 22.42	− 0.06	−26.74	31 28 0.18	26.790	+ 34.9	49.4	5 49	.....	.. ..	....
7	ν Orionis..........	9	2 29.18	− 0.02	−26.76	24 3 57.30	28.344	+ 25.5	47.0	6 2	.....	.. ..	....
8	η Geminorum	9	9 28.45	+ 0.03	−26.78	16 20 0.00	25.972	+ 16.7	48.5	6 9	.....	.. ..	....
9	Neptune C, C....	9	16 20.59	+ 0.02	**−26.77**	16 34 1.08	29.778	+ 17.0	**48.1**	6 15 53.84	.....	+ 22 16 8.7	....
10	ν Geminorum	9	23 39.27	+ 0.01	−26.83	18 33 58.90	29.420	+ 19.2	47.9	6 23	.....	.. ..	....
	October 19, R.												
11	γ¹ Leonis	9	15 2.99	+ 0.04	−26.68	18 29 54.82	30.318	+ 19.0	46.4	10 14	.....	.. ..	....
12	δ Leonis	9	9 22.23	+ 0.04	−26.66	17 48 2.48	27.144	+ 18.2	47.8	11 8	.....	.. ..	....
13	β Leonis	9	44 31.92	+ 0.01	−26.64	23 44 2.32	27.726	+ 24.8	47.0	11 44	.....	.. ..	....
14	Venus I, N.......	4	3 13.01	− 0.09	**−26.63**	44 1 59.88	26.938	+ 54.2	**47.5**	13 2 46.29	+ 0.38	− 5 11 6.7	....
15	Venus II, S......	5	3 13.77	− 0.09	**−26.63**	44 1 59.88	27.345	+ 54.2	**47.5**	13 2 47.05	− 0.38	− 5 11 18.4	....
	October 20, R.												
16	Sun I, S.........	8	37 8.74	− 0.11	**−26.62**	49 15 58.52	30.350	+1 5.1	**47.5**	13 36 42.01	+65.61	− 10 26 54.0	....
17	Sun II, N........	9	39 19.96	− 0.11	**−26.62**	48 43 59.10	30.005	+1 3.9	**47.5**	13 38 53.23	−65.61	− 9 54 42.5	....
18	α Bootis...........	9	11 39.11	+ 0.04	−26.64	19 10 4.02	26.819	+ 19.5	48.0	14 11	.....	.. ..	....
19	α Coronæ Borealis .	9	30 59.72	+ 0.08	−26.62	11 48 1.88	28.676	+ 11.8	48.3	15 30	.....	.. ..	....
20	α Serpentis........	8	39 54.57	− 0.03	−26.58	32 6 2.92	29.219	+ 35.2	49.1	15 39	.....	.. ..	....
21	α Scorpii	9	23 52.92	− 0.18	−26.54	65 1 54.42	28.457	+2 0.0	45.9	16 23	.....	.. ..	....
22	11 Orionis..........	9	59 28.60	0.00	−26.36	23 34 5.72	29.355	+ 25.5	45.2	4 59	.....	.. ..	....
23	τ Orionis..........	9	13 20.91	− 0.14	−26.39	45 48 7.80	25.986	+1 0.0	45.2	5 12	.....	.. ..	....
24	β Tauri	9	20 36.45	+ 0.10	−26.31	10 20 8.42	27.015	+ 10.7	45.9	5 20	.....	.. ..	....
25	Moon N..........	..	.. ..	....	.....	20 8 5.75	26.510	+ 21.5	**45.1**	.. ..	.....	+ 18 43 29.5	....
26	Moon II, S	8	29 53.31	+ 0.02	**−26.32**	20 40 2.92	29.190	+ 22.1	**45.1**	5 29 27.01	−72.12	+ 18 10 15.8	....
27	κ Orionis..........	9	43 36.29	− 0.16	−26.27	48 32 4.52	28.565	+1 6.2	45.1	5 43	.....	.. ..	....
28	ν Orionis..........	9	2 28.66	− 0.01	−26.23	24 4 3.12	28.032	+ 26.2	44.6	6 2	.....	.. ..	....
29	Neptune C, C....	9	16 18.14	+ 0.05	**−26.30**	16 34 5.85	29.538	+ 17.5	**45.1**	6 15 51.89	.....	+ 22 16 7.2	....
30	ν Geminorum	8	23 38.79	+ 0.03	−26.34	18 34 3.88	29.109	+ 19.7	44.5	6 23	.....	.. ..	....
	October 20, Br.												
31	α Leonis	9	3 37.82	− 0.02	−26.38	26 24 1.62	28.509	+ 29.3	46.1	10 3	.....	.. ..	....
32	γ¹ Leonis	9	15 2.78	+ 0.03	−26.43	18 30 1.25	30.075	+ 19.8	46.4	10 14	.....	.. ..	....
33	δ Leonis	8	9 21.94	+ 0.03	−26.34	17 48 4.68	27.030	+ 18.9	47.2	11 8	.....	.. ..	....
34	β Leonis	9	44 31.68	0.00	−26.37	23 44 2.68	27.662	+ 25.9	46.4	11 44	.....	.. ..	....
35	Venus I, C.......	4	7 50.33	− 0.12	**−26.34**	44 30 2.90	29.945	+ 57.5	**46.9**	13 7 23.87	+ 0.38	− 5 40 39.4	....
36	Venus II	5	7 51 10	− 0.12	**−26.34**	... .	......	....	....	13 7 24.64	− 0.39	.. ..	....
	October 21, Br.												
37	Sun I, N.........	9	40 54.65	− 0.15	**−26.34**	49 6 3.25	28.682	+1 7.4	**46.9**	13 40 28.16	+65.76	− 10 16 14.1	....
38	Sun II, S........	9	43 6.16	− 0.15	**−26.34**	49 38 1.45	29.195	+1 8.7	**46.9**	13 42 39.67	−65.75	− 10 48 27.2	....
39	α Bootis...........	9	11 38.83	+ 0.02	−26.34	19 10 6.18	26.679	+ 20.3	46.8	14 11	.....	.. ..	....
40	ε Bootis...........	9	41 9.49	+ 0.08	−26.33	11 22 1.82	27.625	+ 11.8	46.8	14 40	.....	.. ..	....

Time. d	h	m	Barom.	Att. Ther.	Ext. Ther.
			in.	°	°
19	4	5	29.818	59.0	57.3
	4	27	......	....	57.4
	4	46	29.818	59.0	58.8
	5	50	29.824	59.0	59.3
	6	24	29.830	59.3	59.4
	10	15	29.908	60.5	63.2
	11	9	29.930	64.0	66.0
	11	45	29.934	66.1	67.4
	13	3	29.938	69.0	69.0
20	13	39	29.938	69.3	69.1
	14	12	29.923	69.8	69.4
	15	31	29.920	69.9	68.7
	15	40	......	....	68.7
	16	24	29.917	70.0	68.5
	4	59	30.024	53.1	50.5
	5	13	......	....	50.3
	5	44	30.042	52.0	49.3
	6	2	......	....	49.0
	6	16	......	....	48.8
	6	24	......	....	48.9
	7	40	30.070	50.6	....
	10	4	30.138	50.8	48.2
	10	15	......	....	48.1
	11	9	30.152	51.8	49.0
	11	45	30.156	52.9	49.6
	13	8	30.156	53.2	51.1
21	13	43	30.147	53.6	52.3
	14	12	......	....	52.5
	14	41	30.142	54.5	52.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2. Bisections at II, VI, VII.
3. Bisections at II, III, IV, V, VI.
14. Bisections at I, VII.
15. Bisections at II, VI.
16, 25, 37. Bisections at I, II, III.
17, 38. Bisections at V, VI, VII.
21. Bisections at I, VI, VII.
26. Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+21 15.7	−16 23.0	...	+ 4 52.7
9	+ 0.1	....	...	+ 0.1
14	+ 3.6	− 5.9	+ 0.1	− 2.2
15	+ 3.6	+ 5.9	...	+ 9.5
16	+ 6.7	+16 5.7	...	+16 12.4
17	+ 6.7	−16 5.8	...	−15 59.1
25	+20 27.6	−16 20.6	...	+ 4 7.0
26	+21 0.2	+16 20.6	− 0.1	+37 20.7
29	+ 0.1	....	...	+ 0.1
35	+ 3.6	....	0.0	+ 3.6
37	+ 6.7	−16 6.5	...	−15 59.8
38	+ 6.8	+16 6.5	...	+16 13.3

NO.	DATE, OBSERVER, AND OBJECT	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Bootis...........	9	11 59.84	+ 0.13	−26.30	5 10 2.40	28.619	+ 5.3	47.8	15 11	.....	.. ..	....
2	α Coronæ Borealis .	9	30 59.40	+ 0.08	−26.30	11 47 57.65	28.805	+ 12.2	47.9	15 30	.....	.. ..	....
3	ν Orionis	9	2 28.47	− 0.08	−25.94	24 3 56.48	28.261	+ 26.8	45.0	6 2	.....	.. ..	....
4	η Geminorum	9	9 27.73	− 0.03	−25.94	16 20 1.02	25.799	+ 17.6	45.5	6 9	.....	.. ..	....
5	Neptune C, C....	9	16 15.95	− 0.03	**−25.97**	16 33 56.55	29.932	+ 17.9	**46.3**	6 15 49.95	.....	+22 16 6.1	....
6	ν Geminorum	9	23 38.56	− 0.05	−26.00	18 34 0.15	29.268	+ 20.2	45.7	6 23	.....	.. ..	....
7	Moon II, S	9	33 7.48	− 0.06	**−25.96**	21 16 0.28	28.454	+ 23.4	**46.3**	6 32 41.46	−71.45	+17 34 39.1	....
8	ε Geminorum	9	38 24.05	− 0.02	−25.95	13 37 59.65	27.025	+ 14.6	47.3	6 37	.....	.. ..	....
9	θ Geminorum	9	46 49.87	+ 0.05	−25.96	4 45 56.02	29.558	+ 5.1	47.2	6 46	.....	.. ..	....
10	51 H. Cephei.......	9	55 35.10	+ 6.61	[−26.27]	311 40	......	....	....	6 55	.....	.. ..	....
11	λ Ursæ Minoris S.P.	5	19 53.04	−19.35	[−26.63]	307 52	......	....	....	19 19	.....	.. ..	....
12	α² Geminorum	9	28 50.48	+ 0.03	−25.97	6 44 3.28	30.479	+ 7.2	47.2	7 28	.....	.. ..	....
	October 21, R.												
13	α Leonis	9	3 37.37	− 0.05	−25.88	26 23 52.95	28.795	+ 29.6	45.8	10 3	.....	.. ..	....
14	γ¹ Leonis	9	15 2.28	− 0.01	−25.87	18 29 51.05	30.412	+ 20.0	45.8	10 14	.....	.. ..	....
15	δ Leonis	9	9 21.48	− 0.01	−25.82	17 47 49.25	27.515	+ 19.0	45.5	11 8	.....	.. ..	....
16	β Leonis	9	44 31.22	− 0.05	−25.85	23 43 55.90	27.848	+ 25.9	44.7	11 44	.....	.. ..	....
17	Venus I, N	4	12 27.92	− 0.17	**−25.80**	44 59 57.38	28.440	+ 58.3	**46.0**	13 12 1.95	+ 0.36	− 6 9 52.6	....
18	Venus II, S......	5	12 28.65	− 0.17	**−25.80**	44 59 57.38	28.848	+ 58.3	**46.0**	13 12 2.68	− 0.37	− 6 10 4.3	....
	October 22, R.												
19	Sun I, N	8	44 41.19	− 0.18	**−25.78**	49 27 48.15	27.883	+1 7.9	**46.1**	13 44 15.23	+65.71	−10 37 37.5	....
20	Sun II, S	9	46 52.60	− 0.18	**−25.78**	49 59 51.32	28.113	+1 9.2	**46.1**	13 46 26.64	−65.70	−11 9 47.6	....
21	α Bootis...........	9	11 38.28	− 0.01	−25.76	19 10 1.62	26.816	+ 20.2	45.9	14 11	.....	.. ..	....
22	α Coronæ Borealis .	9	30 58.88	+ 0.04	−25.75	11 47 58.80	28.731	+ 12.1	46.7	15 30	.....	.. ..	....
23	α Serpentis........	9	39 53.70	− 0.07	−25.68	32 5 53.35	29.443	+ 36.2	46.7	15 39	.....	.. ..	....
24	δ Ophiuchi.........	3	9 40.29	− 0.11	−25.79	42 15 50.08	30.118	+ 52.4	46.3	16 9	.....	.. ..	....
25	η Geminorum......	9	9 27.23	+ 0.04	−25.48	16 19 54.05	26.049	+ 17.2	45.2	6 9	.....	.. ..	....
26	ν Geminorum......	9	23 38.02	+ 0.03	−25.51	18 33 53.20	29.538	+ 19.8	46.0	6 23	.....	.. ..	....
27	ε Geminorum......	9	38 23.61	+ 0.06	−25.56	13 37 51.42	27.292	+ 14.3	46.4	6 37	.....	.. ..	...
28	51 H. Cephei........	7	55 35.23	+ 6.64	[−25.86]	311 40	......	....	....	6 55	.....	.. ..	....
29	λ Ursæ Minoris S. P.	4	19 51.00	−19.17	[−26.36]	307 52	......	....	....	19 19	.....	.. ..	....
30	Moon II, S	9	34 33.98	0.00	**−25.51**	23 5 59.02	30.541	+ 25.1	**46.3**	7 34 8.47	−70.14	+15 43 39.2	....
31	φ Geminorum......	9	47 58.92	+ 0.07	−25.51	11 49 58.78	28.418	+ 12.4	46.8	7 47	.....	.. ..	....
32	ζ¹ Cancri...........	9	7 4.19	+ 0.01	−25.52	20 53 57.85	29.224	+ 22.5	46.9	8 6	.....	.. ..	....
	October 22, L.												
33	α Leonis	9	3 37.16	− 0.04	−25.65	26 24 6.50	28.344	+ 29.1	45.8	10 3	.....	.. ..	....
34	Mars I, C........	4	10 2.69	− 0.04	**−25.67**	25 53 59.58	27.056	+ 28.5	**45.3**	10 9 36.98	+ 0.22	+12 57 13.5	....
35	Mars II..........	5	10 3.16	− 0.04	**−25.67**	... .	......	....	....	10 9 37.45	− 0.25	.. ..	....
36	γ¹ Leonis	9	15 2.12	0.00	−25.69	18 30 5.08	29.892	+ 19.6	44.5	10 14	.....	.. ..	....
37	δ Leonis	9	9 21.32	+ 0.01	−25.66	17 48 6.72	26.916	+ 18.7	45.4	11 8	.....	.. ..	....
38	β Leonis	9	44 31.00	− 0.02	−25.64	23 44 1.92	27.619	+ 25.4	45.8	11 44	.....	.. ..	....
39	Venus I, N.......	9	17 6.36	− 0.09	**−25.61**	45 30 6.18	26.542	+ 57.8	**47.1**	13 16 40.66	+ 0.38	− 6 39 5.8	....
40	Venus II, S......	9	17 7.13	− 0.09	**−25.61**	45 30 6.18	26.862	+ 57.8	**47.1**	13 16 41.43	− 0.39	− 6 39 14.9	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
21 15 12	......	....	53.2
15 31	30.126	55.5	53.4
5 56	30.164	42.9	39.6
6 16	......	....	39.1
6 33	......	....	39.4
7 1	30.158	42.1	39.1
7 29	30.158	42.0	39.1
10 4	30.180	43.4	42.8
10 15	......	....	43.8
11 9	30.188	47.6	47.8
11 45	30.193	49.5	49.9
13 12	30.170	54.4	53.6
22 13 47	30.150	55.4	54.7
14 12	30.126	56.3	55.8
15 31	30.096	58.9	57.3
15 40	......	....	57.8
16 10	30.090	59.9	57.9
6 9	29.896	46.9	45.6
6 24	......	....	45.5
6 38	29.897	46.9	45.3
7 33	29.904	46.6	45.6
7 48	......	....	45.5
8 7	29.904	46.5	45.2
10 4	29.936	47.2	47.1
10 15	......	....	48.0
11 9	29.942	51.0	51.6
11 45	29.940	53.8	54.8
13 17	29.938	61.0	62.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7. Bisections at II, III, IV, V, VI.
17, 40. Bisections at I, VII.
18, 39. Bisections at II, VI.
19. Bisections at I, II, III.
20. Bisections at V, VI, VII.
23. Bisections at I, VI, VII.
24. Bisections at VI, VII.
26. Bisections at II, VI, VII.
30. Bisections at II, III, V, VI.
38. Z. D. thread D₁ used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 0.1	....	...	+ 0.1
7	+21 28.3	+16 15.6	...	+37 43.9
17	+ 3.7	− 5.9	+ 0.1	− 2.1
18	+ 3.7	+ 5.9	...	+ 9.6
19	+ 6.7	−16 5.0	...	−15 58.3
20	+ 6.8	+16 5.0	...	+16 11.8
30	+23 5.2	+16 8.8	...	+39 14.0
34	+ 2.0	....	0.0	+ 2.0
39	+ 3.7	− 4.6	+ 0.1	− 0.8
40	+ 3.7	+ 4.6	...	+ 8.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	October 23, L.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N	9	48 28.48	− 0.10	**−25.60**	49 48 2.12	30.028	+1 7.0	**47.5**	13 48 2.78	+65.90	−10 58 50.3	....
2	Sun II, S	9	50 40.29	− 0.10	**−25.60**	50 19 53.65	30.667	+1 8.3	**47.5**	13 50 14.59	−65.91	−11 31 0.4	....
3	α Coronæ Borealis..	9	30 58.66	+ 0.06	−25.56	11 48 6.38	28.472	+ 11.8	48.7	15 30	.....	.. ..	....
4	α Serpentis........	9	39 53.54	− 0.03	−25.56	32 6 3.52	29.134	+ 35.2	49.3	15 39	.....	.. ..	....
5	δ Ophiuchi........	9	9 40.07	− 0.06	−25.63	42 16 1.12	29.811	+ 50.8	49.4	16 9	.....	.. ..	....
6	β Herculis.........	9	26 27.03	+ 0.03	−25.50	17 8 1.92	29.242	+ 17.3	48.6	16 26	.....	.. ..	....
	October 24, R.												
7	θ Hydræ..........	9	9 43.47	− 0.03	−24.85	36 6 2.70	30.239	+ 42.3	46.4	9 9	.....	.. ..	....
8	α Lyncis	9	15 32.75	+ 0.15	−24.94	4 2 4.40	30.248	+ 4.2	45.0	9 15	.....	.. ..	....
9	α Hydræ..........	9	23 13.67	− 0.08	−24.84	47 4 7.32	28.621	+1 2.3	46.6	9 22	.....	.. ..	....
10	Moon II, S	9	29 49.40	0.00	**−24.86**	29 40 9.58	28.188	+ 33.1	**46.0**	9 29 24.54	−66.93	+ 9 10 27.5	....
11	ε Leonis	9	40 44.67	+ 0.08	−24.86	14 38 3.92	27.484	+ 15.2	46.2	9 40	.....	.. ..	....
12	α Leonis	9	3 36.33	+ 0.02	−24.83	26 24 7.50	28.361	+ 28.7	46.6	10 3	.....	.. ..	....
13	Mars I, C........	4	14 29.55	+ 0.02	**−24.85**	26 16 4.05	29.716	+ 28.6	**46.3**	10 14 4.72	+ 0.16	+12 33 54.2	....
14	Mars II..........	5	14 29.89	+ 0.02	**−24.85**	... .	......	....	....	10 14 5.06	− 0.18	.. ..	....
15	δ Leonis	8	9 20.49	+ 0.06	−24.84	17 48 4.25	27.049	+ 18.4	46.0	11 8	.....	.. ..	....
16	Venus I, N	4	26 24.64	− 0.06	**−24.81**	46 28 1.05	26.802	+ 58.7	**47.4**	13 25 59.77	+ 0.29	− 7 37 8.6	....
17	Venus II, S......	5	26 25.23	− 0.06	**−24.81**	46 28 1.05	27.142	+ 58.7	**47.4**	13 26 0.36	− 0.30	− 7 37 18.3	....
	October 25, R.												
18	Sun I, S	8	56 4.73	− 0.07	**−24.81**	51 2 0.00	30.277	+1 8.7	**47.5**	13 55 39.85	+66.08	−12 12 57.0	....
19	Sun II, N..........	9	58 16.89	− 0.07	**−24.81**	50 29 58.45	29.932	+1 7.4	**47.5**	13 57 52.01	−66.08	−11 40 43.3	....
20	α Bootis...........	9	11 37.21	+ 0.06	−24.76	19 10 4.08	26.819	+ 19.3	46.8	14 11	.....	.. ..	....
21	α Coronæ Borealis .	9	30 57.85	+ 0.11	−24.81	11 48 2.58	28.703	+ 11.6	48.4	15 30	.....	.. ..	....
22	η Ophiuchi........	9	5 12.46	− 0.02	−24.78	54 26 1.28	28.258	+1 17.2	49.4	17 4	.....	.. ..	....
23	π Herculis.........	9	12 3.32	+ 0.17	−24.78	1 55 58.22	27.641	+ 1.9	48.3	17 11	.....	.. ..	....
	October 27, Br.												
24	46 Leonis Minoris...	9	48 9.06	+ 0.16	−17.32	4 5 55.25	30.291	+ 4.2	47.5	10 47	.....	.. ..	....
25	δ Leonis	9	9 12.92	+ 0.06	−17.20	17 47 55.35	27.445	+ 18.3	47.6	11 8	.....	.. ..	....
26	β Leonis	9	44 22.56	+ 0.02	−17.14	23 43 58.85	27.902	+ 24.9	47.0	11 44	.....	.. ..	....
27	Moon II.........	9	7 12.58	− 0.08	**−17.11**	42 20	......	....	....	12 6 55.39	−64.03	.. ..	....
28	α Canum Venat....	9	51 44.28	+ 0.20	−17.09	0 0 2.90	29.415	+ 0.1	49.2	12 51	.....	.. ..	....
29	Venus I, C	4	40 20.50	− 0.10	**−16.87**	47 51 56.32	30.708	+1 2.3	**47.8**	13 40 3.53	+ 0.41	− 9 2 58.4	....
30	Venus II	5	40 21.32	− 0.10	**−16.87**	... .	......	....	....	13 40 4.35	− 0.41	.. ..	....
	October 28, Br.												
31	Sun I, S..........	9	7 28.19	− 0.12	**−16.80**	52 3 52.85	29.422	+1 12.2	**47.8**	14 7 11.27	+66.37	−13 14 28.6	....
32	Sun II, N.........	9	9 40.93	− 0.12	**−16.79**	51 31 56.65	28.823	+1 10.8	**47.8**	14 9 24.02	−66.38	−12 42 13.0	....
33	α Coronæ Borealis .	9	30 49.57	+ 0.11	−16.54	11 47 59.35	28.808	+ 11.8	48.0	15 30	.....	.. ..	....
34	π Herculis.........	9	11 54.83	+ 0.18	−16.35	1 56 4.82	27.408	+ 2.0	47.7	17 11	.....	.. ..	....
35	θ Herculis.........	9	53 10.47	+ 0.19	−16.22	1 36 0.18	26.062	+ 1.6	47.3	17 52	.....	.. ..	....
36	ο Herculis.........	4	4 0.59	+ 0.12	−16.20	10 5 58.35	27.682	+ 10.1	47.7	18 3	.....	.. ..	....
37	6 B. Ursæ Minoris s. p.	9	13 57.78	−11.32	[−15.18]	307 8	......	....	....	12 13	.....	.. ..	....
38	π Andromedæ	9	31 58.41	+ 0.11	[−15.14]	5 40	......	....	....	0 31	.....	.. ..	....
39	β Andromedæ	9	4 34.46	+ 0.11	[−15.05]	3 46	......	....	....	1 4	.....	.. ..	....
40	α Ursæ Minoris....	7	25 12.59	+15.12	[−16.70]	310 6	......	....	....	1 25	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
23 13 51	29.928	62.9	64.0
15 31	29.914	68.2	69.0
15 40	......	....	69.6
16 10	......	....	70.0
16 26	29.914	70.4	70.1
24 9 10	29.920	53.0	51.9
9 23	......	....	52.0
9 30	29.925	53.2	52.1
9 41	......	....	52.4
10 4	......	....	53.7
10 14	29.940	54.8	54.1
11 9	29.958	58.0	58.6
13 26	29.989	70.3	72.9
25 13 58	29.980	72.8	74.4
14 12	......	....	74.7
15 31	29.973	76.1	76.3
17 5	29.978	77.6	77.0
17 12	......	....	76.7
27 10 48	29.358	53.8	52.0
11 9	......	....	53.1
11 44	29.358	55.1	54.3
12 52	......	....	56.1
13 40	29.364	58.4	57.1
28 14 10	29.364	59.1	57.1
15 31	29.370	59.3	57.7
17 12	29.396	58.1	56.1
17 53	......	....	56.1
18 4	29.418	57.8	56.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 18, 31.	Bisections at I, II, III.
2, 19, 32.	Bisections at V, VI, VII.
3, 4, 5, 6.	Z. D. thread D_1 used.
8, 33.	Bisections at I, II.
10.	Bisections at III, IV, V.
16.	Bisections at I, VII.
17.	Bisections at II, VI.
21, 25.	Bisections at II, VI, VII.
22, 28, 35, 36.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 6.8	−16 5.1	...	−15 58.3
2	+ 6.8	+16 5.0	...	+16 11.8
10	+28 38.7	+15 52.2	...	+44 30.9
13	+ 2.0	....	0.0	+ 2.0
16	+ 3.8	− 4.9	+ 0.1	− 1.0
17	+ 3.8	+ 4.9	...	+ 8.7
18	+ 6.9	+16 6.9	...	+16 13.8
19	+ 6.9	−16 6.8	...	−15 59.9
29	+ 3.8	....	0.0	+ 3.8
31	+ 7.0	+16 7.8	...	+16 14.8
32	+ 7.0	−16 7.8	...	−16 0.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	October 28, L.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Leonis	9	9 9.22	+ 0.03	−13. 44	17 48 8.15	26.905	+ 18.9	45. 7	11 8	.....	.. ..	....
2	β Leonis	5	44 18.86	0.00	−13. 40	23 44 10.35	27.398	+ 25.9	45. 0	11 44	.....	.. ..	....
3	α Canum Venat....	9	51 40.58	+ 0.16	−13. 33	0 0 12.02	28.990	+ 0.1	45. 9	12 51	.....	.. ..	....
4	α Virginis	8	20 16.91	− 0.12	−13. 22	49 30 7.12	26.096	+1 8.6	47. 5	13 20	.....	.. ..	....
5	Venus I, C	9	44 59.54	− 0.12	**−13.13**	48 22 15.70	26.110	+1 5.9	**46.5**	13 44 46.29	+ 0.40	− 9 31 11.6	....
6	Venus II	9	45 0.35	− 0.12	**−13.13**	... .	......	....	....	13 44 47.10	− 0.41	.. ..	....
	October 29, L.												
7	Sun I, S.........	9	11 16.34	− 0.12	**−13.07**	52 24 17.25	28.673	+ 1 16.1	**46.6**	14 11 3.15	+66.55	−13 34 36.8	....
8	Sun II, N........	9	13 29.44	− 0.12	**−13.06**	51 52 6.78	28.578	+ 1 14.6	**46.6**	14 13 16.26	−66.56	−13 2 21.2	....
9	α Serpentis	8	39 40.76	− 0.02	−12. 82	32 6	......	....	....	15 39	.....	.. ..	....
10	δ Ophiuchi	9	9 27.14	− 0.05	−12. 74	42 16 7.68	29.454	+ 53.3	48. 0	16 9	.....	.. ..	....
11	β Herculis.........	9	26 14.20	− 0.06	−12. 76	17 8 17.00	28.650	+ 18.1	46. 8	16 26	.....	.. ..	....
12	ζ Ophiuchi	8	32 0.49	− 0.07	−12. 71	49 12 13.88	27.834	+1 7.8	47. 4	16 31	.....	.. ..	....
13	η Ophiuchi	9	5 0.40	− 0.08	−12. 70	54 26 5.68	27.782	+1 21.8	47. 3	17 4	.....	.. ..	....
14	δ Leonis	9	9 5.51	− 0.02	− 9. 70	17 48 5.28	26.985	+ 19.4	45. 2	11 8	.....	.. ..	....
15	ν Ursæ Majoris	9	13 22.55	+ 0.09	− 9. 65	5 14 3.15	27.422	+ 5.6	44. 9	11 13	.....	.. ..	....
16	β Leonis	9	44 14.98	− 0.01	− 9. 49	23 44 7.45	27.472	+ 26.4	44. 4	11 44	.....	.. ..	....
17	α Canum Venat	8	51 36.72	+ 0.13	− 9. 43	0 0 4.18	29.241	+ 0.1	45. 1	12 51	.....	.. ..	....
18	Mercury II, C	9	13 11.38	− 0.09	**− 9.33**	44 39 55.12	27.408	+ 58.4	**45.4**	13 13 1.96	− 0.27	− 5 49 21.7	....
19	Venus I, N.......	9	49 39.29	− 0.10	**− 9.23**	48 50 1.72	26.370	+1 7.4	**45.6**	13 49 29.96	+ 0.41	− 9 59 7.5	....
20	Venus II, S	9	49 40.11	− 0.10	**− 9.23**	48 50 1.72	26.710	+1 7.4	**45.6**	13 49 30.78	− 0.41	− 9 59 17.1	....
	October 30, L.												
21	Sun I, N	9	15 5.18	− 0.10	**− 9.16**	52 12 8.38	28.212	+1 15.8	**45.7**	14 14 55.92	+66.66	−13 22 15.4	....
22	Sun II, S	9	17 18.49	− 0.10	**− 9.15**	52 44 0.70	29.048	+1 17.2	**45.7**	14 17 9.24	−66.66	−13 54 32.0	....
23	α Coronæ Borealis .	9	30 42.01	+ 0.06	− 8. 94	11 48 2.92	28.634	+ 12.3	46. 4	15 30	.....	.. ..	....
24	α Serpentis	6	39 36.89	− 0.02	8. 95	32 6 1.62	29.095	+ 36.7	46. 9	15 39	.....	.. ..	....
25	β Herculis.........	9	26 10.21	+ 0.04	− 8. 76	17 8 8.45	28.950	+ 18.0	46. 4	16 26	.....	.. ..	....
26	ζ Ophiuchi	9	31 56.59	− 0.06	− 8. 83	49 12 6.55	28.071	+1 7.4	46. 4	16 31	.....	.. ..	....
27	π Herculis.........	9	11 47.18	+ 0.12	− 8. 67	1 56 0.95	27.486	+ 2.0	45. 7	17 11	.....	.. ..	....
28	6 B. Ursæ Minoris S. P.	9	13 48.56	− 8.44	[− 8. 28]	307 8	......	....	....	12 13	.....	.. ..	....
29	12 Ceti	9	25 14.55	− 0.05	[− 8. 29]	43 20	......	....	....	0 25	.....	.. ..	....
30	δ Piscium	9	43 48.28	− 0.01	[− 8. 29]	31 48	......	....	....	0 43	.....	.. ..	....
31	α Ursæ Minoris	7	25 7.17	+12.09	[− 8. 41]	310 6	......	....	....	1 25	.....	.. ..	....
	October 30, Br.												
32	ν Ursæ Majoris	4	13 20.66	+ 0.03	− 7. 68	5 11 56.95	31.898	+ 5.5	45. 8	11 13	.....	.. ..	....
33	β Leonis	9	44 13.17	− 0.05	− 7. 62	23 43 58.25	27.922	+ 25.8	47. 2	11 44	.....	.. ..	....
34	α Canum Venat	9	51 35.01	+ 0.06	− 7. 63	359 59 58.78	29.482	+ 0.1	46. 2	12 51	.....	.. ..	....
35	ε Virginis	9	57 27.01	− 0.07	− 7. 48	27 21 59.92	27.612	+ 29.9	46. 7	12 57	.....	.. ..	....
36	Mercury II, C....	9	14 56.69	− 0.13	**− 7.55**	44 41 49.60	27.674	+ 57.0	**46.8**	13 14 49.01	− 0.26	− 5 51 21.0	....
37	α Virginis	5	20 11.33	− 0.15	− 7. 58	49 30	......	....	....	13 20	.....	.. ..	....
38	Venus I, N	4	54 22.10	− 0.14	**− 7.51**	49 15 57.60	30.372	+1 6.8	**47.1**	13 54 14.45	+ 0.41	−10 26 55.2	....
39	Venus II, S	5	54 22.93	− 0.14	**− 7.51**	49 15 57.60	30.715	+1 6.8	**47.1**	13 54 15.28	− 0.42	−10 27 5.1	....
	October 31, Br.												
40	Sun I, N	9	18 56.98	− 0.14	**− 7.49**	52 31 58.75	27.897	+1 14.9	**47.2**	14 18 49.35	+66.73	−13 41 54.4	....
41	Sun II, S	9	21 10.44	− 0.14	**− 7.48**	53 4 2.08	28.365	+1 16.3	**47.2**	14 21 2.82	−66.74	−14 14 11.5	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
28 11 9	29.846	45.0	44.7
11 44	......	....	44.9
13 20	29.910	48.5	46.1
13 45	......	....	46.4
29 14 13	29.907	49.3	46.3
15 40	29.936	49.9	46.9
16 9	......	....	47.1
16 26	......	....	47.8
16 32	29.958	50.0	47.9
17 5	29.968	50.2	47.8
11 9	30.306	39.3	39.0
11 44	30.308	41.8	42.3
12 52	......	....	47.8
13 13	30.310	48.9	48.8
13 50	......	....	50.0
30 14 17	30.286	51.2	51.1
15 31	30.260	54.1	53.8
15 40	......	....	54.2
16 26	30.238	55.6	55.0
16 32	......	....	55.0
17 12	30.238	56.4	55.0
11 6	30.228	46.1	48.1
11 44	30.234	49.9	52.0
12 57	30.242	55.5	59.4
13 15	......	....	60.2
13 20	30.242	56.9	60.2
13 54	30.238	59.2	61.1
31 14 21	30.233	60.4	62.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 24.	Bisections at I, II.
2.	Bisections at I, II, VII.
3.	Bisections at II, VI, VII.
4, 10, 11, 12, 13, 24, 25, 26.	Z. D. thread D_1 used.
7, 21, 40.	Bisections at I, II, III.
8, 22, 41.	Bisections at V, VI, VII.
19, 39.	Bisections at II, VI.
20, 38.	Bisections at I, VII.
25, 32.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 3.9	....	0.0	+ 3.9
7	+ 7.0	+16 7.8	...	+16 14.8
8	+ 7.0	−16 7.8	...	−16 0.8
18	+ 7.2	....	+ 0.9	+ 8.1
19	+ 3.9	− 4.8	0.0	− 0.9
20	+ 3.9	+ 4.8	...	+ 8.7
21	+ 7.0	−16 8.2	...	−16 1.2
22	+ 7.1	+16 8.3	...	+16 15.4
36	+ 7.0	....	+ 0.8	+ 7.8
38	+ 3.9	− 5.0	+ 0.1	− 1.0
39	+ 3.9	+ 5.0	...	+ 8.9
40	+ 7.1	−16 8.5	...	−16 1.4
41	+ 7.1	+16 8.6	...	+16 15.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Bootis...........	9	11 41.07	+ 0.04	− 7.48	5 10 2.98	28.666	+ 5.2	47.0	15 11	.....	.. ..	....
2	β Coronæ Borealis .	9	23 55.37	+ 0.02	− 7.38	9 24 0.10	29.028	+ 9.6	47.8	15 23	.....	.. ..	....
3	α Coronæ Borealis .	9	30 40.54	+ 0.01	− 7.42	11 47 55.15	28.969	+ 12.0	47.7	15 30	.....	.. ..	....
4	α Serpentis	9	39 35.37	− 0.06	− 7.39	32 5 55.98	29.431	+ 36.0	47.7	15 39	.....	.. ..	....
5	β Herculis..........	9	26 8.87	− 0.01	− 7.37	17 8 0.72	29.374	+ 17.7	48.0	16 26	.....	.. ..	....
6	51 H. Cephei S. P...	7	55 33.21	− 4.51	[− 8.52]	306 4	......	....	....	6 55	.....	.. ..	....
7	ι Lyræ	9	3 56.97	+ 0.05	[− 7.23]	2 54	......	....	....	19 3	.....	.. ..	....
8	λ Ursæ Minoris ...	6	18 47.42	+12.21	[− 5.94]	309 52	......	....	....	19 18	.....	.. ..	....
9	β Cygni	9	26 55.28	+ 0.01	[− 7.20]	11 6	......	....	....	19 26	.....	.. ..	....
	October 31, R.												
10	46 Leonis Minoris ..	9	47 58.37	+ 0.11	− 6.47	4 5 57.65	30.170	+ 4.3	45.5	10 47	.....	.. ..	....
11	δ Leonis	..	.. ..	....	.....	17 47 56.68	27.300	+ 19.1	44.7	11 8	.....	.. ..	....
12	ν Ursæ Majoris	7	13 19.32	+ 0.10	− 6.38	5 14 1.72	27.512	+ 5.5	45.3	11 13	.....	.. ..	....
13	β Leonis	9	44 11.87	0.00	− 6.35	23 44 4.15	27.632	+ 26.0	44.8	11 44	.....	.. ..	....
14	Mercury II, C ...	9	17 14.82	− 0.08	− **6.29**	44 47 58.48	29.415	+ 58.3	**45.7**	13 17 8.45	− 0.25	− 5 58 22.2	....
15	α Virginis	8	20 9 96	− 0.09	− 6.26	49 29 57.80	26.455	+1 8.6	45.9	13 20	.....	.. ..	....
16	Venus I, S........	4	59 6.30	− 0.09	− **6.25**	49 44 5.30	29.307	+1 9.0	**45.8**	13 58 59.96	+ 0.25	−10 54 35.8	....
17	Venus II	5	59 6.81	− 0.09	− **6.25**	... .	......	....	....	13 59 0.47	− 0.26	.. ..	....
	November 1, R.												
18	Sun I, N.........	9	22 50.02	− 0.10	− **6.23**	52 52 9.18	26.278	+1 16.9	**45.9**	14 22 43.69	+66.89	−14 1 22.0	....
19	Sun II, S	9	25 3.81	− 0.10	− **6.23**	53 24 1.80	27.177	+1 18.4	**45.9**	14 24 57.48	−66.90	−14 33 40.8	....
20	α Coronæ Borealis .	9	30 39.16	+ 0.07	− 6.11	11 48 6.25	28.558	+ 12.2	46.9	15 30	.....	.. ..	....
21	β Herculis..........	9	26 7.57	+ 0.04	− 6.13	17 7 54.98	29.524	+ 17.9	46.5	16 26	.....	.. ..	....
22	η Herculis..........	9	39 38.46	+ 0.14	− 6.12	359 43 56.80	29.264	− 0.2	45.9	16 39	.....	.. ..	....
23	π Herculis..........	7	11 44.61	+ 0.13	− 6.14	1 56 0.38	27.550	+ 2.0	46.5	17 11	.....	.. ..	....
24	6 B. Ursæ Minoris S. P..	9	13 46.83	− 9.12	[− 5.29]	307 8	......	....	....	12 13	.....	.. ..	....
25	12 Ceti	9	25 12.02	− 0.10	[− 5.72]	43 20	......	....	....	0 25	.....	.. ..	....
26	δ Piscium	9	43 45.71	− 0.05	[− 5.68]	31 48	......	....	....	0 43	.....	.. ..	....
27	α Ursæ Minoris	8	25 4.88	+11.65	[− 5.75]	310 6	......	....	....	1 25	.....	.. ..	....
	November 2, L.												
28	β Leonis	9	44 9.83	+ 0.03	− 4.29	23 44 0.30	27.709	+ 25.9	45.1	11 44	.....	.. . .	....
29	α Canum Venat	8	51 31.72	+ 0.14	− 4.37	0 0 4.68	29.202	+ 0.1	45.5	12 51	.....	.. ..	....
30	Mercury C, C	9	23 17.34	+ 0.04	− **4.26**	45 16 8.10	27.332	+ 58.5	**45.4**	13 23 13.12	− 0.08	− 6 25 32.1	....
31	η Bootis...........	8	50 6.55	+ 0.04	− 4.23	19 57 58.70	27.388	+ 21.0	45.9	13 50	.....	.. ..	....
32	Venus I, C.......	9	8 37.48	− 0.06	− **4.21**	50 38 6.40	29.611	+1 10.3	**45.7**	14 8 33.21	+ 0.39	−11 48 47.3	....
33	Venus II	9	8 38.27	− 0.06	− **4.21**	... .	......	....	....	14 8 34.00	− 0.40	.. ..	....
34	α Bootis...........	9	11 16.72	+ 0.04	− 4.20	19 10 5.88	26.728	+ 20.1	44.8	14 11	.....	.. ..	....
	November 3, L.												
35	Sun I, S.........	9	30 39.06	− 0.07	− **4.19**	54 2 0.45	27.678	+1 19.2	**45.9**	14 30 34.80	+67.07	−15 11 55.4	....
36	Sun II, N........	9	32 53.19	− 0.07	− **4.18**	53 30 2.40	27.078	+1 17.6	**45.9**	14 32 48.94	−67.07	−14 39 37.7	....
37	α Coronæ Borealis .	9	30 37.10	+ 0.07	− 4.04	11 48 8.32	28.419	+ 12.0	46.7	15 30	.....	.. ..	....
38	β Herculis..........	9	26 5.51	+ 0.05	− 4.10	17 8 4.40	29.164	+ 17.6	47.3	16 26	.....	.. ..	....
39	α Ophiuchi	9	30 28.73	+ 0.02	− 4.02	26 12 10.20	29.064	+ 27.9	45.4	17 30	.....	.. ..	....
40	μ Herculis..........	7	42 42.44	+ 0.08	− 4.01	11 4 3.98	28.069	+ 11.1	48.0	17 42	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
31 15 12	... ..	....	62.6
15 31	30.214	62.1	62.8
15 40	30.210	62.6	62.8
16 26	30.202	63.4	62.9
10 48	30.268	45.0	45.3
11 9	. ....	....	47.0
11 13	30.269	46.9	47.1
11 44	30.278	48.3	48.3
13 20	30.272	53.0	52.1
13 59	......	....	53.6
1 14 25	30.250	55.8	54.7
15 31	30.218	58.1	57.2
16 26	......	....	57.8
16 40	30.200	59.8	57.8
17 12	30.194	60.0	58.0
2 11 44	29.988	46.8	46.4
12 52	......	....	50.7
13 23	29.986	52.8	53.0
13 50	......	....	54.4
14 11	......	....	55.6
3 14 33	29.974	56.1	56.7
15 31	29.958	59.4	60.2
16 26	..	....	62.8
17 30	......	....	64.0
17 43	29.956	63.8	64.0

Micrometer bisections are made at I, II, VI, VII, except as noted below..	
2.	Bisections at I, VI, VII.
11, 12, 29, 30.	Bisections at VI, VII.
13, 16, 20.	Bisections at II, VI, VII.
14.	Bisections at I, II.
15.	Bisections at II, VI.
18, 35.	Bisections at I, II, III.
19, 36.	Bisections at V, VI, VII.
28, 29, 31, 37, 38, 40.	Z. D. thread D_1 used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
14	+ 6.8	....	+ 0.8	+ 7.6
16	+ 4.0	+ 5.0	...	+ 9.0
18	+ 7.1	−16 9.4	...	−16 2.3
19	+ 7.1	+16 9.4	...	+16 16.5
30	+ 6.4	....	+ 0.6	+ 7.0
32	+ 4.0	....	0.0	+ 4.0
35	+ 7.2	+16 8.8	...	+16 16.0
36	+ 7.1	−16 8.8	...	−16 1.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	November 3, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Leonis	9	8 59.53	+ 0.01	− 3.58	17 48 3.28	27.166	+ 18.7	46.5	11 8	.....	.. ..	....
2	ν Ursæ Majoris	9	13 16.68	+ 0.06	− 3.62	5 14 5.35	27.485	+ 5.4	47.5	11 13	.....	.. ..	....
3	β Leonis	9	44 9.18	− 0.01	− 3.58	23 44 3.95	27.712	+ 25.5	45.9	11 44	.....	.. ..	....
4	ε Virginis	6	57 23.17	− 0.01	− 3.64	27 22	......	....	....	12 57	.....	.. ..	....
5	Mercury C, C.	9	26 55.91	− 0.06	− **3.59**	45 34 5.35	30.106	+ 58.6	**46.6**	13 26 52.26	− 0.07	− 6 44 47.8	....
6	α Bootis	9	11 16.16	+ 0.04	− 3.63	19 10 3.40	26.849	+ 19.9	45.4	14 11	.....	.. ..	....
	November 4, Br.												
7	Sun I, N	9	34 35.07	− 0.09	− **3.57**	53 47 53.50	28.982	+1 17.9	**46.8**	14 34 31.41	+67.17	−14 58 23.4	....
8	Sun II, S	9	36 49.40	− 0.09	− **3.57**	54 20 5.85	29.108	+1 19.4	**46.8**	14 36 45.74	−67.16	−15 30 40.0	....
9	α^1 Herculis	9	10 15.72	+ 0.02	− 3.55	24 20 0.62	29.046	+ 25.6	45.7	17 10	.....	.. ..	....
10	α Ophiuchi	9	30 28.19	+ 0.01	− 3.48	26 12 1.38	29.419	+ 27.9	46.6	17 30	.....	.. ..	....
11	μ Herculis	9	42 41.94	+ 0.08	− 3.52	11 4 4.55	28.146	+ 11.1	48.3	17 42	.....	.. ..	....
12	η Serpentis	9	16 20.00	− 0.04	− 3.52	41 46 5.70	27.155	+ 50.6	49.3	18 16	.....	.. ..	....
	November 7, Br.												
13	θ Aquilæ	9	6 19.90	− 0.03	− 2.30	39 56 4.42	29.579	+ 48.5	46.8	20 6	.....	.. ..	....
14	α^2 Capricorni	9	12 42.28	− 0.08	− 2.29	51 40 6.50	29.179	+1 13.3	47.4	20 12	.....	.. ..	....
15	Moon I, S	9	35 55.59	− 0.09	− **2.28**	53 4 7.90	30.465	+1 17.2	**46.8**	20 35 53.22	+63.50	−14 15 19.0	....
16	μ Aquarii	9	47 27.44	− 0.08	− 2.29	48 10 0.20	29.887	+1 4.9	46.4	20 47	.....	.. ..	....
17	ι Pegasi	9	17 38.32	+ 0.04	− 2.23	19 28 6.22	26.241	+ 20.6	45.8	21 17	.....	.. ..	....
18	ζ Capricorni	9	21 10.05	− 0.14	− 2.28	61 40 4.58	26.469	+1 47.6	47.5	21 21	.....	.. ..	....
	November 9, Br.												
19	α Aquarii	9	0 50.02	0.00	− 1.72	39 38 2.02	27.504	+ 48.4	47.5	22 0	.....	.. ..	....
20	θ Aquarii	9	11 44.93	− 0.02	− 1.81	47 5 56.82	28.349	+1 2.8	47.1	22 11	.....	.. ..	....
21	Moon I, S.	9	15 10.09	− 0.02	− **1.76**	46 6 0.92	28.190	+1 0.6	**47.7**	22 15 8.31	+63.69	− 7 15 49.7	....
22	σ Aquarii	9	25 32.89	− 0.04	− 1.74	49 59 59.95	29.115	+1 9.6	48.6	22 25	.....	.. ..	....
23	η Aquarii	9	30 24.42	0.00	− 1.77	39 28 0.90	26.711	+ 48.1	47.6	22 30	.....	.. ..	....
	November 9, L.												
24	α Canum Venat.	8	51 29.25	+ 0.23	− 1.86	0 0 4.50	29.314	+ 0.1	44.1	12 51	.....	.. ..	....
25	ε Virginis	9	57 21.29	+ 0.08	− 1.75	27 22 8.48	27.236	+ 29.8	44.8	12 57	.....	.. ..	....
26	α Virginis	9	20 5.54	− 0.01	− 1.77	49 30 4.45	26.238	+1 6.9	46.4	13 20	.....	.. ..	....
27	η Bootis	9	50 4.08	+ 0.12	− 1.76	19 58 9.20	27.132	+ 20.7	44.9	13 50	.....	.. ..	....
28	Mercury C, C.	9	54 47.66	0.00	− **1.78**	48 22 15.88	28.130	+1 4.0	**45.5**	13 54 45.88	− 0.04	− 9 32 8.5	....
29	Venus I, S	9	42 33.50	− 0.01	− **1.78**	53 40 11.22	26.005	+1 16.8	**46.0**	14 42 31.71	+ 0.44	−14 49 15.6	....
30	Venus II, N.	9	42 34.38	− 0.01	− **1.78**	53 40 11.22	25.675	+1 16.8	**46.0**	14 42 32.59	− 0.44	−14 49 6.1	....
	November 10, L.												
31	Sun I, N.	9	58 30.27	− 0.02	− **1.78**	55 36 7.30	26.270	+1 22.3	**46.2**	14 58 28.47	+67.95	−16 45 24.9	....
32	Sun II, S	9	0 46.16	− 0.02	− **1.78**	56 8 3.80	27.073	+1 24.0	**46.2**	15 0 44.36	−67.94	−17 17 45.1	....
33	α Coronæ Borealis	9	30 34.69	+ 0.20	− 1.76	11 48 8.82	28.554	+ 11.8	46.8	15 30	.....	.. ..	....
34	β Herculis	9	26 3.06	+ 0.18	− 1.80	17 8 7.62	29.108	+ 17.4	47.3	16 26	.....	.. ..	....
35	α^1 Herculis	9	10 13.78	+ 0.16	− 1.80	24 20 8.98	28.738	+ 25.4	46.6	17 10	.....	.. ..	....
36	μ Herculis	9	42 39.91	+ 0.23	− 1.72	11 4 8.02	27.994	+ 11.0	48.6	17 42	.....	.. ..	....
	November 12, R.												
37	γ Pegasi	9	8 16.09	+ 0.12	− 0.86	24 12	......	....	....	0 8	.....	.. ..	....
38	6 B. Ursæ Minoris s. p.	7	13 45.84	− 8.61	[− 0.06]	307 8	......	....	....	12 13	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
3 11 5	29.994	50.6	51.1
11 44	29.998	52.4	53.0
13 27	30.008	58.0	58.3
14 15	30.002	60.0	60.4
4 14 37	29.996	61.1	61.2
17 10	29.972	66.0	65.1
17 30	29.968	66.0	65.0
17 43	......	....	65.0
18 16	29.960	65.1	64.1
7 20 2	29.936	55.0	52.8
20 13	......	....	52.3
20 36	......	....	51.6
20 47	......	....	51.5
21 21	29.952	52.9	50.9
9 22 1	29.836	48.0	47.3
22 15	......	....	47.6
22 30	29.828	47.8	47.0
12 51	29.906	52.2	56.5
12 57	......	....	56.8
13 20	29.910	54.8	58.8
13 50	......	....	60.9
13 55	.....	....	61.0
14 43	......	....	64.2
10 15 1	29.902	62.1	65.0
15 31	.....	....	66.0
16 26	29.876	65.4	67.6
17 10	......	....	69.1
17 43	29.878	68.2	69.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2.	Bisections at VI, VII.
7, 31.	Bisections at I, II, III.
8, 32.	Bisections at V, VI, VII.
15, 21.	Bisections at II, III, IV, V, VI.
16, 22, 34.	Bisections at II, VI, VII.
25, 26, 34, 35, 36.	Z. D. thread D_1 used.
29.	Bisections at II, VI.
30.	Bisections at I, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 6.3	....	+ 0.6	+ 6.9
7	+ 7.2	−16 8.3	...	−16 1.1
8	+ 7.2	+16 8.3	...	+16 15.5
15	+43 38.2	+14 56.3	...	+58 34.5
21	+40 14.8	+15 17.6	...	+55 32.4
28	+ 5.7	....	+ 0.3	+ 6.0
29	+ 4.2	+ 4.8	...	+ 9.0
30	+ 4.2	− 4.8	+ 0.1	− 0.5
31	+ 7.4	−16 10.1	...	−16 2.7
32	+ 7.4	+16 10.1	...	+16 17.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	12 Ceti	9	25 6.97	+ 0.05	− 0.89	43 19 57.60	27.891	+ 53.6	45.7	0 25	.....	.. ..	....
2	δ Piscium	9	43 40.74	+ 0.09	− 0.89	31 48 0.98	26.230	+ 35.3	47.3	0 43	.....	.. ..	....
3	Moon I, S	9	51 47.62	+ 0.09	− **0.88**	32 55 50.60	29.609	+ 36.9	**46.5**	0 51 46.83	+67.15	+ 5 54 2.6	....
4	*f* Piscium	9	12 49.52	+ 0.08	− 0.85	35 44 0.30	28.634	+ 41.0	46.2	1 12	.....	.. ..	....
5	α Ursæ Minoris	7	24 55.73	+12.57	[− 0.57]	310 6	......	....	....	1 25	.....	.. ..	....
6	ο Piscium	9	40 18.19	+ 0.10	− 0.88	30 10 1.38	28.979	+ 33.2	46.3	1 40	.....	.. ..	....
7	ξ¹ Ceti	9	7 53.53	+ 0.10	− 0.94	30 28 1.65	26.221	+ 33.6	46.9	2 7	.....	.. ..	....
	November 12, L.												
8	α Canum Venat	8	51 28.38	+ 0.24	− 0.93	0 0 3.68	29.292	+ 0.1	44.0	12 51	.....	.. ..	....
9	α Virginis	8	20 4.78	0.00	− 0.97	49 30 8.05	26.085	+1 6.9	45.3	13 20	.....	.. ..	....
10	α Bootis	9	11 13.44	+ 0.14	− 0.91	19 9 58.50	27.094	+ 19.7	45.1	14 11	.....	.. ..	....
	November 13, L.												
11	Sun I, S	9	10 39.22	+ 0.02	− **0.91**	56 56 7.42	30.352	+1 26.0	**45.6**	15 10 38.33	+68.25	−18 7 25.6	....
12	Sun II, N	9	12 55.73	+ 0.02	− **0.91**	56 24 6.40	29.723	+1 24.2	**45.6**	15 12 54.84	−68.26	−17 35 4.0	....
13	α Coronæ Borealis	9	30 33.81	+ 0.20	− 0.88	11 48 6.20	28.619	+ 11.7	45.2	15 30	.....	.. ..	....
14	α Serpentis	8	39 28.79	+ 0.11	− 0.96	32 6 2.20	29.211	+ 35.1	47.2	15 39	.....	.. ..	....
15	β Herculis	9	26 2.12	+ 0.18	− 0.86	17 8 3.90	29.220	+ 17.2	45.9	16 26	.....	.. ..	....
16	π Herculis	9	11 39.06	+ 0.26	− 0.87	1 56 7.78	27.298	+ 1.9	46.2	17 11	.....	.. ..	....
	November 13, Hd.												
17	6 B. Ursæ Minoris S. P.	7	13 46.99	− 8.88	[− 0.52]	307 8	......	....	....	12 13	.....	.. ..	....
18	*f* Piscium	9	12 49.41	+ 0.09	[− 0.75]	35 46	......	....	....	1 12	.....	.. ..	....
19	α Ursæ Minoris	4	24 54.72	+12.62	[+ 0.12]	310 6	......	....	....	1 25	.....	.. ..	....
	November 13, L.												
20	ν Piscium	9	36 24.83	+ 0.08	− 0.83	33 50 5.35	29.402	+ 38.5	45.3	1 36	.. ..	.. ..	....
21	ο Piscium	9	40 18.18	+ 0.09	− 0.86	30 10 9.58	28.660	+ 33.4	45.4	1 40	.....	.. ..	....
22	Moon I, S	9	48 57.77	+ 0.10	− **0.83**	28 40 11.78	28.424	+ 31.4	**44.8**	1 48 57.04	+69.07	+10 10 19.0	....
23	α Arietis	9	1 44.31	+ 0.15	− 0.81	15 50 6.52	29.179	+ 16.4	44.5	2 1	.....	.. ..	....
24	ξ¹ Ceti	9	7 53.45	+ 0.09	− 0.84	30 28 8.08	25.921	+ 33.8	45.0	2 7	.....	.. ..	....
25	ξ² Ceti	9	23 2.06	+ 0.09	− 0.86	30 50 9.60	25.826	+ 34.4	45.0	2 23	.....	.. ..	....
26	δ Ceti	9	34 32.59	+ 0.06	− 0.85	38 56 6.92	27.448	+ 46.5	44.9	2 34	.....	.. ..	....
27	B. A. C. 852	9	40 17.70	+ 0.08	− **0.85**	34 32 2.80	28.679	+ 39.6	**44.8**	2 40 16.93	− 4.40	+ 4 18 12.5	−14.9
28	σ Arietis	8	46 10.23	+ 0.12	− 0.84	24 10 9.98	27.298	+ 25.9	43.5	2 46	.....	.. ..	....
29	α Ceti	9	57 14.52	+ 0.07	− 0.85	35 8 6.75	27.799	+ 40.5	44.9	2 57	.....	.. ..	....
	November 14, Br.												
30	6 B. Ursæ Minoris S. P.	9	13 48.33	− 9.00	[− 1.34]	307 8	......	....	....	12 13	.....	.. ..	....
31	π Andromedæ	9	31 43.94	+ 0.17	[− 0.83]	5 40	......	....	....	0 31	.....	.. ..	....
32	μ Andromedæ	9	51 24.28	+ 0.20	[− 0.85]	0 52	......	....	....	0 51	.....	.. ..	....
33	α Ursæ Minoris	9	24 55.89	+13.06	[− 1.74]	310 6	......	....	....	1 25	.....	.. ..	....
34	ξ¹ Ceti	9	7 53.49	+ 0.05	− 0.84	30 28 3.68	26.118	+ 34.3	46.6	2 7	.....	.. ..	....
35	ξ² Ceti	9	23 2.10	+ 0.05	− 0.85	30 50 5.45	25.986	+ 34.7	45.6	2 23	.....	.. ..	....
36	δ Ceti	9	34 32.57	+ 0.02	− 0.78	38 56 0.90	27.690	+ 46.9	46.1	2 34	.....	.. ..	....
37	B. A. C. 852	9	40 17.74	+ 0.03	− **0.81**	34 32 5.40	28.611	+ 40.0	**45.8**	2 40 16.96	− 4.41	+ 4 18 12.5	−14.8
38	Moon I, S	9	49 26.49	+ 0.07	− **0.81**	24 58 5.18	30.514	+ 27.1	**45.8**	2 49 25.75	+71.03	+13 51 31.4	....
39	α Ceti	9	57 14.53	+ 0.03	− 0.82	35 8 2.00	27.972	+ 40.9	45.5	2 57	.....	.. ..	....
40	ζ Arietis	9	9 21.61	+ 0.10	− 0.79	18 10 5.65	27.448	+ 19.1	45.3	3 9	.....	.. ..	....
41	*f* Tauri	9	25 33.09	+ 0.07	− 0.79	26 14 3.30	28.998	+ 28.7	45.4	3 25	.....	.. ..	....
	November 15, R.												
42	ξ² Ceti	9	23 2.02	+ 0.10	− 0.82	30 49 55.15	26.415	+ 33.9	46.7	2 23	.....	.. ..	....
43	B. A. C. 852	9	40 17.68	+ 0.09	− **0.80**	34 31 56.25	29.002	+ 39.1	**46.3**	2 40 16.97	− 4.41	+ 4 18 11.9	−14.8
44	ε Arietis	9	53 41.98	+ 0.15	− 0.83	17 53 54.72	27.768	+ 18.4	46.4	2 53	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
12 0 25	29.940	62.6	62.1
0 44	......	....	62.2
0 52	......	....	62.0
1 13	......	...	61.0
1 36	29.946	61.4	....
1 40	......	....	60.6
2 8	......	....	60.0
3 2	29.954	59.4	....
12 51	30.054	55.1	55.9
13 20	......	....	60.8
14 11	30.080	64.0	67.1
13 15 13	30.068	68.8	72.0
15 31	......	....	72.9
15 39	30.060	70.8	73.2
16 26	30.044	72.2	73.8
17 12	30.034	73.4	73.9
1 36	30.020	60.2	58.8
2 8	30.015	59.6	58.0
2 57	30.010	58.1	56.8
14 2 8	29.908	52.[illegible]	49.9
2 40	......	....	51.0
2 57	....	....	51.1
3 9	29.906	52.1	51.0
3 26	29.904	52.3	51.1
15 2 23	29.888	63.2	62.1
2 40	......	....	62.0
2 54	......	....	61.7

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 22, 38.	Bisections at II, III, IV, V, VI.
8, 9, 14, 15, 16.	Z. D. thread D_1 used.
8, 21, 28.	Bisections at VI, VII.
9.	Bisections at I, II, VII.
11.	Bisections at I, II, III.
12.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+31 50.4	+16 3.0	...	+47 53.4
11	+ 7.5	+16 10.7	...	+16 18.2
12	+ 7.4	−16 10.8	...	−16 3.4
22	+28 29.6	+16 17.2	...	+44 46.8
38	+25 21.5	+16 28.5	...	+41 50.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	*f* Tauri	9	25 33.05	+ 0.12	— 0.79	26 13 53.42	29.389	+ 28.1	46.1	3 25	.....	.. ..	....
2	η Tauri	9	41 45.20	+ 0.16	— 0.82	15 1 50.38	29.844	+ 15.4	45.8	3 41	.....	.. ..	....
3	Moon II, S	9	55 25.26	+ 0.13	— **0.80**	22 15 53.62	27.603	+ 23.4	**46.3**	3 55 24.59	—72.62	+16 35 10.1	....
4	γ Tauri	9	14 18.37	+ 0.13	— 0.79	23 27 50.32	26.844	+ 24.8	46.1	4 14	.....	.. ..	....
5	δ Orionis	9	27 4.88	+ 0.08	— 0.77	39 13 47.95	25.894	+ 46.6	46.9	5 27	.....	.. ..	....
	November 16, Br.												
6	τ Tauri	9	36 27.59	+ 0.07	— 0.89	16 4	......	....	....	4 36	.....	.. ..	....
7	*i* Tauri	9	45 44.16	+ 0.04	— 0.91	20 10 2.25	28.888	+ 21.3	44.3	4 45	.....	.. ..	....
8	ι Aurigæ	9	50 42.94	+ 0.12	— 0.96	5 49 58.82	29.015	+ 6.0	43.4	4 50	.....	.. ..	....
9	Moon II, S	9	1 5.13	+ 0.04	— **0.91**	20 48 1.95	29.717	+ 22.1	**43.9**	5 1 4.26	—73.42	+18 2 0.4	....
10	τ Orionis	9	12 55.92	— 0.07	— 0.87	45 45 57.95	30.668	+ 59.6	44.8	5 12	.....	.. ..	....
11	β Tauri	9	20 11.79	+ 0.08	— 0.91	10 20 4.75	27.082	+ 10.6	44.7	5 20	.....	.. ..	....
12	θ Aurigæ	9	53 8.61	+ 0.12	— 0.94	1 40 2.98	25.794	+ 1.7	43.5	5 53	.....	.. ..	....
13	ν Orionis	9	2 3.98	0.00	— 0.84	24 3 59.52	28.162	+ 25.9	42.9	6 2	.....	.. ..	...
14	η Geminorum	9	9 3.32	+ 0.03	— 0.85	16 20 0.45	25.798	+ 17.0	43.4	6 9	.....	.. ..	....
15	Neptune C, C	9	14 12.44	+ 0.03	— **0.88**	16 33 59.35	29.747	+ 17.3	**43.9**	6 14 11.59	.....	+22 16 6.9	....
16	ν Geminorum	9	23 14.13	+ 0.02	— 0.89	18 34 0.30	29.262	+ 19.5	43.9	6 23	.....	.. ..	.. .
	November 18, R.												
17	η Bootis	9	50 3.59	+ 0.11	— 1.12	19 58 0.25	27.571	+ 21.1	46.6	13 50	.....	.. ..	....
18	α Bootis	9	11 13.75	+ 0.11	— 1.10	19 9 50.02	27.448	+ 20.1	45.5	14 11	.....	.. ..	....
19	ρ Bootis	9	27 38.17	+ 0.18	— 1.08	8 2 4.50	30.366	+ 8.2	45.6	14 27	.....	.. ..	....
20	ε Bootis	9	40 44.32	+ 0.16	— 1.09	11 22 2.98	27.805	+ 11.6	45.1	14 40	.....	.. ..	....
21	Mercury C, C	7	46 20.93	— 0.04	— **1.11**	53 31 59.95	29.556	+1 17.9	**46.1**	14 46 19.78	— 0.01	—14 42 46.4	....
	November 19, R.												
22	Sun I, S	9	35 21.82	— 0.05	— **1.14**	58 28 5.22	27.760	+1 33.2	**46.1**	15 35 20.63	+68.93	—19 38 16.2	....
23	Sun II, N	9	37 39.67	— 0.05	— **1.14**	57 56 11.18	26.775	+1 31.3	**46.1**	15 37 38.48	—68.92	—19 5 51.4	....
24	β Herculis	9	26 2.45	+ 0.13	— 1.14	17 7 58.95	29.510	+ 17.7	46.0	16 26	.....	.. ..	....
25	η Herculis	9	39 33.33	+ 0.24	— 1.22	359 44 2.35	29.282	— 0.2	47.0	16 39	.....	.. ..	....
26	π Herculis	9	11 39.42	+ 0.23	— 1.24	1 56 0.45	27.711	+ 2.0	46.8	17 11	.....	.. ..	....
27	α Ophiuchi	9	30 25.62	+ 0.10	— 1.10	26 12 2.48	29.444	+ 28.1	46.3	17 30	.....	.. ..	....
	November 19, Hd.												
28	α Andromedæ	9	3 24.44	+ 0.18	[— 1.20]	10 18	......	....	....	0 3	.....	.. ..	....
29	6 B. Ursæ Minoris S. P.	9	13 51.44	—10.09	[— 0.96]	307 8	......	....	....	12 13	.....	.. ..	....
30	*f* Piscium	9	12 49.89	+ 0.14	[— 1.31]	35 44	......	....	....	1 12	.....	.. ..	....
31	α Ursæ Minoris	7	24 52.21	+14.70	[— 1.42]	310 6	......	....	....	1 25	.....	.. ..	....
	November 19, R.												
32	ν Orionis	9	2 4.20	+ 0.07	— 1.05	24 3 49.75	28.534	+ 26.2	43.7	6 2	.....	.. ..	....
33	η Geminorum	9	9 3.52	+ 0.12	— 1.07	16 19 48.18	26.232	+ 17.2	43.7	6 9	.....	.. ..	....
34	Neptune C, C	9	13 56.21	+ 0.11	— **1.06**	16 33 50.48	29.995	+ 17.5	**44.2**	6 13 55.26	.....	+22 16 8.7	. ..
35	ν Geminorum	9	23 14.29	+ 0.10	— 1.05	18 33 52.12	29.585	+ 19.7	44.9	6 23	.....	.. ..	....
36	γ Geminorum	9	32 8.58	+ 0.08	— 1.08	22 21 50.80	28.320	+ 24.2	43.3	6 32	.....	.. ..	....
37	51 H. Cephei	9	55 24.97	+ 6.51	[— 2.06]	311 40	......	....	....	6 55	.....	.. ..	....
38	λ Ursæ Minoris S. P.	7	18 44.73	—18.13	[+ 0.91]	307 52	......	....	....	19 18	.....	.. ..	....
39	ω^1 Cancri	9	55 5.41	+ 0.14	— 1.15	13 11 53.38	27.512	+ 13.8	43.9	7 55	.....	.. ..	....
40	B. A. C. 2761	8	8 59.12	+ 0.08	— **1.11**	25 29 56.28	28.798	+ 28.0	**44.2**	8 8 58.09	— 3.89	+13 20 26.4	+18.0
41	Moon II, S	9	13 29.87	+ 0.09	— **1.11**	24 49 51.50	30.786	+ 27.2	**44.2**	8 13 28.85	—70.08	+13 59 35.6	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
15	3	26	29.885	62.0	60.7
	3	42	......	....	60.5
	3	55	......	....	60.2
	4	14	29.880	61.1	59.8
	5	27	29.884	60.1	59.0
16	4	29	29.932	55.0	52.9
	5	1	29.932	54.9	52.7
	5	20	29.930	54.6	52.2
	5	53	......	....	52.0
	6	14	......	....	52.0
	6	23	29.936	53.8	52.0
18	13	50	29.952	54.0	53.5
	14	11	......	....	54.0
	14	28	......	....	54.7
	14	46	29.955	56.0	55.7
19	15	37	29.940	57.8	58.1
	16	26	29.935	59.7	60.1
	16	40	......	....	60.6
	17	12	......	....	61.1
	17	30	29.936	61.7	61.5
	6	2	30.044	50.1	49.1
	6	14	......	....	49.0
	6	32	.....	....	48.8
	7	2	30.040	49.8	48.9
	7	55	30.053	49.2	47.8
	8	13	......	....	48.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 9, 41.	Bisections at II, III, IV, V, VI.
15.	Bisections at II, VI, VII.
22.	Bisections at I, II, III.
23.	Bisections at V, VI, VII.
33, 40.	Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+22 53.2	+16 35.5	...	+39 28.7
9	+21 29.9	+16 37.4	...	+38 7.3
15	+ 0.1	....	...	+ 0.1
21	+ 5.4	....	+ 0.1	+ 5.5
22	+ 7.6	+16 12.4	...	+16 20.0
23	+ 7.6	—16 12.4	...	—16 4.8
34	+ 0.1	....	...	+ 0.1
41	+24 54.6	+16 16.0	...	+41 10.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Cancri	9	27 7.45	+ 0.12	− 1.10	18 4 0.50	29.704	+ 19.2	44.8	8 27	.....	.. ..	....
2	γ Cancri	9	37 41.81	+ 0.13	− 1.13	17 1 57.00	28.148	+ 18.0	43.7	8 37	.....	.. ..	....
3	B. A. C. 3000	9	46 39.97	+ 0.16	− **1.12**	10 13 56.55	27.828	+ 10.6	**44.2**	8 46 39.01	− 3.86	+28 37 11.2	+25.2
4	κ Cancri	9	2 30.92	+ 0.08	− 1.08	27 45 55.92	30.885	+ 31.0	45.8	9 2	.....	.. ..	....
	November 19, L.												
5	ε Virginis	9	57 21.08	+ 0.06	− 1.31	27 22 16.25	27.016	+ 30.5	44.8	12 57	.....	.. ..	....
6	α Virginis	9	20 5.33	− 0.02	− 1.35	49 30 13.12	25.959	+1 8.5	45.3	13 20	.....	.. ..	....
7	η Bootis	9	50 3.81	+ 0.09	− 1.30	19 58 13.62	26.982	+ 21.3	45.5	13 50	.....	.. ..	....
8	α Bootis	9	11 14.01	+ 0.10	− 1.34	19 10 18.12	26.412	+ 20.3	44.0	14 11	.....	.. ..	....
	November 20, L.												
9	Sun I, N	9	39 32.07	− 0.05	− **1.32**	58 10 9.38	26.618	+1 33.4	**45.3**	15 39 30.70	+69.12	−19 19 48.8	....
10	Sun II, S	9	41 50.31	− 0.05	− **1.32**	58 42 13.52	27.215	+1 35.3	**45.3**	15 41 48.94	−69.12	−19 52 11.1	....
11	π Herculis	9	11 39.57	+ 0.19	− 1.36	1 56 4.18	27.465	+ 2.0	45.5	17 11	.....	.. ..	....
12	α Ophiuchi	9	30 25.83	+ 0.07	− 1.29	26 12 6.75	29.141	+ 28.4	44.4	17 30	.....	.. ..	....
13	μ Herculis	9	42 39.47	+ 0.14	− 1.27	11 4 11.38	27.880	+ 11.3	46.8	17 42	.....	.. ..	....
14	θ Herculis	9	52 55.22	+ 0.20	− 1.32	1 36 7.05	25.848	+ 1.7	45.9	17 52	.....	.. ..	....
	November 20, Hd.												
15	30 Piscium	9	57 0.99	− 0.02	[− 1.25]	45 24	......	....	....	23 56	.....	.. ..	....
16	6 B. Ursæ Minoris S. P.	9	13 51.72	− 8.54	[− 2.19]	307 8	......	....	....	12 13	.....	.. ..	....
17	*f* Piscium	9	12 49.93	+ 0.01	[− 1.22]	35 44	......	....	....	1 12	.....	.. ..	....
18	α Ursæ Minoris	5	24 50.92	+12.40	[+ 1.64]	310 6	......	....	....	1 25	.....	.. ..	....
	November 20, Br.												
19	α Canum Venat	9	51 28.98	+ 0.21	− 1.30	0 0 0.42	29.605	+ 0.1	44.9	12 51	.....	.. ..	....
20	ε Virginis	9	57 21.01	+ 0.06	− 1.22	27 22 2.98	27.588	+ 30.1	44.9	12 57	.....	.. ..	....
21	α Virginis	9	20 5.28	− 0.04	− 1.26	49 30 3.48	26.356	+1 7.7	46.0	13 20	.....	.. ..	....
22	η Bootis	9	50 3.76	+ 0.09	− 1.23	19 58 3.85	27.429	+ 21.0	45.5	13 50	.....	.. ..	....
23	Mercury C, C	9	58 33.03	− 0.08	− **1.26**	54 40 0.30	28.454	+1 20.2	**46.2**	14 58 31.69	− 0.01	−15 50 17.6	....
	November 21, Br.												
24	Sun I, N	9	43 42.88	− 0.07	− **1.26**	58 22 8.82	29.993	+1 31.6	**46.5**	15 43 41.55	+69.15	−19 33 21.4	....
25	Sun II, S	9	46 1.18	− 0.07	− **1.26**	58 54 11.80	30.800	+1 33.5	**46.6**	15 45 59.85	−69.15	−20 5 48.5	....
26	κ Ophiuchi	9	53 4.47	+ 0.07	− 1.29	29 18 3.45	29.995	+ 31.6	47.7	16 53	.....	.. ..	....
27	π Herculis	9	11 39.47	+ 0.20	− 1.27	1 56 3.08	27.654	+ 2.0	47.2	17 11	.....	.. ..	....
28	α Ophiuchi	9	30 25.79	+ 0.09	− 1.27	26 12 2.02	29.465	+ 27.7	45.8	17 30	.....	.. ..	....
29	*u* Herculis	9	42 39.41	+ 0.15	− 1.22	11 4 8.42	28.139	+ 11.1	48.6	17 42	.....	.. ..	....
	November 21, Hd.												
30	30 Piscium	9	57 1.01	+ 0.05	[− 1.35]	45 24	......	....	....	23 56	.....	.. ..	....
31	6 B. Ursæ Minoris S. P.	9	13 51.28	− 8.74	[− 0.92]	307 8	......	....	....	12 13	.....	.. ..	....
32	*f* Piscium	9	12 49.91	+ 0.08	[− 1.28]	35 44	......	....	....	1 12	.....	.. ..	....
33	α Ursæ Minoris	6	24 51.40	+12.77	[+ 0.21]	310 6	......	....	....	1 25	.....	.. ..	....
	November 21, Br.												
34	ζ¹ Cancri	9	6 40.74	+ 0.08	− 1.20	20 54 2.85	29.135	+ 22.2	45.4	8 6	.....	.. ..	....
35	σ Hydræ	9	33 42.96	+ 0.01	− 1.16	35 10 1.32	27.327	+ 40.9	45.7	8 33	.....	.. ..	....
36	ε Hydræ	9	41 39.99	+ 0.02	− 1.14	32 4 4.82	28.296	+ 36.4	45.3	8 41	.....	.. ..	..
37	B. A. C. 3000	9	46 40.14	+ 0.14	− **1.18**	10 14 7.68	27.442	+ 10.5	**45.2**	8 46 39.10	− 3.94	+28 37 12.2	+25.4
38	κ Cancri	9	2 31.14	+ 0.04	− 1.20	27 48 7.80	26.255	+ 30.6	45.0	9 2	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
19 8 27	......	....	48.2
8 47	......	....	48.4
9 3	30.072	49.3	48.4
12 57	30.120	49.6	48.1
13 20	30.124	50.8	50.2
13 50	......	....	51.3
14 11	30.126	52.8	52.0
20 15 42	30.100	55.0	54.2
17 12	......	....	56.8
17 30	30.056	58.1	57.2
17 43	......	....	57.4
17 53	30.048	58.8	58.0
12 57	29.916	52.0	51.7
13 20	29.916	53.5	53.0
13 50	29.920	55.5	55.1
14 59	29.906	60.0	60.8
21 15 46	29.884	62.8	64.5
16 53	29.874	65.0	65.9
17 12	......	....	65.8
17 30	29.858	66.1	66.1
17 43	29.858	66.7	66.1
8 1	29.714	50.1	48.2
8 34	......	....	48.0
8 47	29.702	49.9	47.9
9 3	29.696	49.5	47.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 7, 11, 12, 13, 14.	Z. D. thread D_1 used.
9, 24.	Bisections at I, II, III.
10, 25.	Bisections at V, VI, VII.
19, 35.	Bisections at II, VI, VII.
26.	Bisections at I, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
9	+ 7.6	−16 11.2	...	−16 3.6
10	+ 7.6	+16 11.1	...	+16 18.7
23	+ 5.3	....	+ 0.1	+ 5.4
24	+ 7.6	−16 13.5	...	−16 5.9
25	+ 7.7	+16 13.5	...	+16 21.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Moon II, S	9	7 23.86	+ 0.02	− **1.18**	32 26 2.88	29.711	+ 37.0	**45.2**	10 7 22.70	−66.31	+ 6 23 46.1	....
2	41 Leonis Minoris...	9	38 9.30	+ 0.11	− 1.21	15 8 6.32	30.542	+ 15.8	44.8	10 38	.....	.. ..	....
3	*l* Leonis	9	44 10.41	+ 0.04	− 1.17	27 46 6.08	30.456	+ 30.7	45.3	10 44	.....	.. ..	....
	November 22, R.												
4	ρ Leonis	9	27 43.18	+ 0.04	− 1.10	29 1 51.28	29.164	+ 32.6	45.9	10 27	.....	.. ..	....
5	41 Leonis Minoris...	9	38 9.26	+ 0.12	− 1.15	15 7 48.12	31.190	+ 16.0	45.0	10 38	.....	.. ..	....
6	*l* Leonis	9	44 10.39	+ 0.05	− 1.13	27 45 50.55	30.980	+ 31.0	44.8	10 44	.....	.. ..	....
7	Moon II, S	9	0 17.06	0.00	− **1.15**	36 47 47.92	29.620	+ 44.1	**44.8**	11 0 15.91	−64.93	+ 2 1 56.1	....
8	Mars II, C	9	14 52.06	+ 0.03	− **1.15**	31 57 49.18	29.812	+ 36.8	**44.8**	11 14 50.94	− 0.21	+ 6 51 56.7	....
9	β Leonis	9	44 7.12	+ 0.07	− 1.10	23 43 58.70	27.932	+ 25.9	43.3	11 44	.....	.. ..	....
10	α Canum Venat	9	51 28.98	+ 0.24	− 1.28	359 59 57.92	29.708	+ 0.1	44.8	12 51	.....	.. ..	....
	November 27, Br.												
11	α Virginis	9	20 5.16	− 0.04	− 0.97	49 30 1.48	26.426	+1 9.7	47.1	13 20	.....	.. ..	....
12	η Bootis	8	50 3.66	+ 0.06	− 0.96	19 57 57.12	27.683	+ 21.7	44.9	13 50	.....	.. ..	....
13	ε Bootis	4	40 44.53	+ 0.09	− 1.10	11 22 2.08	27.900	+ 12.0	44.8	14 40	.....	.. ..	....
14	α Coronæ Borealis..	9	30 34.13	+ 0.09	− 0.97	11 47 58.75	29.010	+ 12.5	45.5	15 30	.....	.. ..	....
15	Mercury C, C	9	42 31.25	− 0.07	− **1.01**	58 15 56.35	27.854	+1 36.1	**45.3**	15 42 30.17	0.00	−19 26 13.3	....
	November 28, Br.												
16	Sun I, S	9	13 21.29	− 0.07	− **1.01**	60 19 59.85	28.147	+1 44.2	**45.3**	16 13 20.21	+69.97	−21 30 33.6	....
17	Sun II, N.........	9	15 41.22	− 0.07	− **1.01**	59 47 59.68	27.238	+1 42.0	**45.3**	16 15 40.14	−69.96	−20 58 4.7	....
18	α Ophiuchi	9	30 25.59	+ 0.03	− 1.01	26 12 1.18	29.429	+ 29.3	44.2	17 30	.....	.. ..	....
19	μ Herculis.........	9	42 39.18	+ 0.10	− 0.98	11 3 55.80	28.542	+ 11.7	46.1	17 42	.....	.. ..	....
20	α Lyræ....	9	33 38.77	+ 0.15	− 1.02	0 9 59.95	26.605	+ 0.2	44.6	18 33	.....	.. ..	....
21	β Lyræ............	9	46 29.64	+ 0.12	− 1.05	5 35 55.22	27.873	+ 5.9	45.4	18 46	.....	.. ..	....
22	γ Lyræ............	9	55 18.66	+ 0.12	− 1.03	6 18 3.65	26.729	+ 6.6	45.3	18 55	.....	.. ..	....
	November 28, Hd.												
23	30 Piscium	9	57 0.54	− 0.01	[− 0.89]	45 24	......	....	....	23 56	.....	.. ..	....
24	6 B. Ursæ Minoris s. p.	7	13 53.87	− 7.90	[− 0.47]	307 8	......	....	....	12 13	.....	.. ..	....
25	*f* Piscium	9	12 49.50	+ 0.02	[− 0.85]	35 44	......	....	....	1 12	.....	.. ..	....
26	α Ursæ Minoris....	6	24 48.73	+11.46	[+ 0.32]	310 6	......	....	....	1 25	.....	.. ..	....
	November 28, R.												
27	α Canum Venat....	9	51 28.67	+ 0.17	− 0.72	0 0 1.75	29.626	+ 0.1	44.5	12 51	.....	.. ..	....
28	η Bootis	9	50 3.32	+ 0.07	− 0.60	19 58 2.18	27.485	+ 22.0	44.4	13 50	.....	.. ..	....
29	α Bootis	9	11 13.47	+ 0.07	− 0.60	19 10 5.10	26.926	+ 21.0	44.0	14 11	.....	.. ..	....
30	ε Bootis	9	40 44.06	+ 0.11	− 0.63	11 22 2.32	27.868	+ 12.2	43.9	14 40	.....	.. ..	....
31	Mercury C, C	9	48 56.33	− 0.07	− **0.59**	58 43 58.82	26.798	+1 38.3	**44.4**	15 48 55.67	0.00	−19 53 48.8	....
	November 29, R.												
32	Sun I, N.........	9	17 38.06	− 0.08	− **0.58**	59 58 1.35	28.298	+1 43.0	**44.4**	16 17 37.40	+69.98	−21 8 39.1	....
33	Sun II, S	9	19 58.02	− 0.08	− **0.58**	60 30 2.40	29.172	+1 45.2	**44.4**	16 19 57.36	−69.98	−21 41 6.6	....
34	π Herculis.........	9	11 38.84	+ 0.16	− 0.61	1 56 6.60	27.522	+ 2.1	44.7	17 11	.....	.. ..	....
35	α Ophiuchi	9	30 25.09	+ 0.04	− 0.52	26 12 2.55	29.344	+ 29.3	42.9	17 30	.....	.. ..	....
36	μ Herculis........	9	42 38.70	+ 0.11	− 0.51	11 4 7.08	28.141	+ 11.7	45.9	17 42	.....	.. ..	....
37	θ Herculis.........	9	52 54.43	+ 0.16	− 0.56	1 36 3.82	26.099	+ 1.7	45.1	17 52	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
21	10	7	29.688	48.8	46.9
	10	38	....	....	46.8
	12	3	29.666	48.7	47.9
22	10	28	29.683	43.4	42.2
	10	44	....	....	41.5
	11	0	....	....	41.0
	11	15	....	....	41.1
	11	44	29.714	42.7	41.4
	12	51	29.732	44.0	43.1
27	13	20	29.814	37.3	37.0
	13	50	29.834	38.0	36.8
	14	41	29.872	39.9	38.0
	15	31	....	....	38.7
	15	43	29.896	40.6	38.5
28	16	16	29.892	41.3	38.8
	17	30	29.896	41.8	39.8
	17	43	....	....	40.0
	18	46	....	....	40.1
	18	55	29.934	43.3	40.1
	12	51	30.192	31.6	30.5
	13	50	30.186	34.4	35.1
	14	11	....	....	36.4
	14	41	30.194	37.7	38.2
	15	49	30.180	41.6	41.1
29	16	19	30.170	42.6	42.4
	17	12	30.150	44.2	43.9
	17	30	....	....	44.3
	17	43	....	....	44.7
	17	53	30.138	45.3	45.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 7.	Bisections at II, III, IV, V, VI.
8.	Bisections at II, VI.
12, 21.	Bisections at II, VI, VII.
13.	Bisections at I, II.
16, 32.	Bisections at I, II, III.
17, 33.	Bisections at V, VI, VII.
19.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+31 1.4	+15 51.1	...	+46 52.5
7	+34 12.8	+15 38.8	...	+49 51.6
8	+ 2.8	....	0.0	+ 2.8
15	+ 5.4	....	0.0	5.4
16	+ 7.8	+16 14.4	...	+16 22.2
17	+ 7.7	−16 14.4	...	−16 6.7
31	+ 5.3	....	0.0	+ 5.3
32	+ 7.7	−16 13.7	...	−16 6.0
33	+ 7.8	+16 13.7	...	+16 21.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	November 30, L.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Virginis	9	20 4.35	+ 0.01	− 0.13	49 30 2.85	26.359	+1 10.5	47.0	13 20	.....	.. ..	....
2	η Bootis	9	50 2.80	+ 0.12	− 0.08	19 58 2.15	27.564	+ 21.9	46.1	13 50	.....	.. ..	....
3	α Bootis	9	11 13.01	+ 0.12	− 0.14	19 9 56.60	27.306	+ 20.9	45.7	14 11	....	.. ..	....
4	ε Bootis	9	40 43.61	+ 0.15	− 0.18	11 22 1.80	27.951	+ 12.1	45.2	14 40	.....	.. ..	....
	December 1, L.												
5	Sun I, S	9	26 13.84	− 0.05	− **0.12**	60 50 6.95	28.763	+1 45.8	**46.0**	16 26 13.67	+70.27	−22 0 59.1	....
6	Sun II, N	9	28 34.38	0.05	− **0.12**	60 18 6.35	27.923	+1 43.5	**46.0**	16 28 34.21	−70.27	−21 28 31.7	....
7	α Ophiuchi	9	30 24.64	+ 0.07	− 0.10	26 12 1.55	29.459	+ 29.0	44.5	17 30	.....	.. ..	....
8	μ Herculis	9	42 38.24	+ 0.14	− 0.09	11 4 8.38	28.144	+ 11.6	46.7	17 42	.....	.. ..	....
9	α Lyræ	9	33 37.83	+ 0.20	− 0.16	0 10 7.32	26.439	+ 0.2	46.4	18 33	.....	.. ..	....
10	β Lyræ	9	46 28.65	+ 0.16	− 0.13	5 36 5.58	27.559	+ 5.8	46.1	18 46	.....	.. ..	....
	December 1, Hd.												
11	30 Piscium	9	56 59.57	− 0.01	[+ 0.04]	45 24	......	....	....	23 56	.....	.. ..	....
12	6 B. Ursæ Minoris S. P.	8	13 52.66	− 6.07	[+ 0.64]	307 8	......	....	....	12 13	.....	.. ..	....
13	f Piscium	9	12 48.54	+ 0.02	[+ 0.09]	35 46	......	....	....	1 12	.....	.. ..	....
14	α Ursæ Minoris	7	24 49.39	+ 8.89	[+ 0.69]	310 6	......	....	....	1 24	.....	.. ..	....
	December 1, Br.												
15	α Virginis	9	20 4.07	− 0.04	+ 0.22	49 30 7.92	26.185	+1 10.0	46.5	13 20	.....	.. ..	....
16	η Bootis	9	50 2.57	+ 0.06	+ 0.23	19 58 7.68	27.374	+ 21.7	45.7	13 50	.....	.. ..	....
17	α Bootis	9	11 12.75	+ 0.06	+ 0.20	19 10 5.35	26.980	+ 20.7	44.7	14 11	.....	.. ..	....
18	ε Bootis	9	40 43.34	+ 0.10	+ 0.16	11 22 5.95	27.834	+ 12.0	45.6	14 40	.....	.. ..	....
19	Mercury C, C	9	8 24.41	− 0.07	+ **0.22**	60 0 6.50	28.625	+1 41.2	**46.0**	16 8 24.56	0.00	−21 10 49.8	....
	December 2, Br.												
20	Sun I, N	7	30 32.86	− 0.08	+ **0.22**	60 26 31.55	29.708	+1 42.8	**46.1**	16 30 33.00	+70.29	−21 37 47.7	....
21	Sun II, S	9	32 53.44	− 0.08	+ **0.22**	60 58 34.42	30.600	+1 45.0	**46.1**	16 32 53.58	−70.29	−22 10 17.3	....
22	α Ophiuchi	7	30 24.32	+ 0.04	+ 0.25	26 12 9.62	29.228	+ 28.6	45.4	17 30	.....	.. ..	....
23	θ Herculis	9	52 53.67	+ 0.14	+ 0.21	1 36 7.92	26.071	+ 1.7	47.5	17 52	.....	.. ..	....
24	α Lyræ	9	33 37.47	+ 0.15	+ 0.24	0 10 7.85	26.420	+ 0.2	46.2	18 33	.....	.. ..	....
	December 3, R.												
25	ζ Aquilæ	9	0 55.35	+ 0.10	+ 0.63	25 8	......	....	....	19 0	.....	.. ..	....
26	β Cygni	7	26 46.95	+ 0.14	+ 0.51	11 6	......	....	....	19 26	.....	.. ..	....
27	Moon I	8	28 1.55	+ 0.02	+ **0.58**	56 16	......	....	....	19 28 2.15	+63.73	.. ..	....
28	γ Aquilæ	9	41 37.33	+ 0.09	+ 0.63	28 28	......	....	....	19 41	.....	.. ..	....
29	α Aquilæ	9	46 1.56	+ 0.09	+ 0.57	30 14	......	....	....	19 46	.....	.. ..	....
	December 5, Br.												
30	ε Delphini	9	28 32.94	+ 0.07	+ 1.11	27 52 2.72	28.206	+ 31.5	47.9	20 28	.....	.. ..	....
31	α Delphini	9	35 6.17	+ 0.09	+ 1.13	23 16 5.72	28.729	+ 25.7	48.4	20 35	.....	.. ..	....
32	ε Cygni	9	42 15.45	+ 0.16	+ 1.04	5 14 2.08	28.959	+ 5.5	48.7	20 42	.....	.. ..	....
33	Moon I, S	9	6 59.51	0.00	+ **1.08**	51 18 7.65	27.773	+1 14.5	**48.5**	21 7 0.59	+62.88	−12 27 57.6	....
34	β Aquarii	9	26 25.66	+ 0.02	+ 1.09	44 50 5.42	27.988	+ 59.4	48.5	21 26	.....	.. ..	....
35	ξ Aquarii	9	32 33.86	+ 0.01	+ 1.06	47 8 4.68	26.762	+1 4.4	48.2	21 32	.....	.. ..	....
36	ε Pegasi	9	39 23.92	+ 0.07	+ 1.08	29 24 6.22	29.364	+ 33.8	49.1	21 39	.....	.. ..	....
	December 7, L.												
37	η Bootis	9	50 1.38	+ 0.09	+ 1.54	19 58 7.20	27.431	+ 22.1	45.7	13 50	.....	.. ..	....
38	α Bootis	9	11 11.51	+ 0.09	+ 1.55	19 10 8.60	26.919	+ 21.1	45.0	14 11	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
30 13 20	29.842	31.4	31.8
13 50	......	....	33.2
14 11	29.856	34.0	34.3
14 41	29.866	36.0	36.1
1 16 28	29.838	40.2	40.9
17 30	29.824	42.8	42.8
17 43	......	....	42.8
18 34	......	....	44.2
18 46	29.814	45.4	44.1
13 20	29.750	33.8	33.6
13 50	29.740	35.3	35.1
14 11	29.740	36.7	36.8
14 41	29.736	38.4	39.0
16 8	29.714	43.8	44.0
2 16 34	29.708	45.0	45.4
17 30	29.684	47.2	48.0
17 53	......	....	48.0
18 34	29.662	48.8	48.2
5 20 29	29.616	36.2	34.0
20 42	29.630	36.5	33.9
21 7	......	....	33.3
21 26	......	....	33.0
21 39	29.680	34.8	32.8
7 13 50	29.888	30.8	30.1
14 11	......	....	30.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 20. Bisections at I, II, III.
6, 21. Bisections at V, VI, VII.
33. Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 7.8	+16 13.7	...	+16 21.5
6	+ 7.8	−16 13.7	...	−16 5.9
19	+ 5.4	....	0.0	+ 5.4
20	+ 7.8	−16 14.8	...	−16 7.0
21	+ 7.8	+16 14.8	...	+16 22.6
33	+42 29.3	+14 54.1	...	+57 23.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Bootis	9	40 42.07	+ 0.11	+ 1.54	11 22 8.28	27.781	+ 12.2	44.8	14 40	.....	.. ..	....
2	α Coronæ Borealis	9	30 31.72	+ 0.11	+ 1.57	11 48 9.05	28.760	+ 12.7	45.9	15 30	.....	.. ..	....
	December 8, L.												
3	Sun I, N	6	56 38.54	+ 0.01	+ **1.60**	61 14 14.50	27.777	+1 50.3	**46.0**	16 56 40.15	+70.73	−22 24 43.1	....
4	Sun II, S	2	58 59.99	+ 0.01	+ **1.60**	61 46 13.30	28.863	+1 52.8	**46.0**	16 59 1.60	−70.72	−22 57 14.7	....
5	α Lyræ	7	33 36.05	+ 0.14	+ 1.63	0 10 6.68	26.481	+ 0.2	45.1	18 33	.....	.. ..	....
6	β Cygni	5	26 45.79	+ 0.11	+ 1.66	11 6 10.52	26.518	+ 12.0	47.5	19 26	.....	.. ..	....
7	γ Aquilæ	9	41 36.33	+ 0.07	+ 1.62	28 28 11.60	27.394	+ 33.0	46.5	19 41	.....	.. ..	....
8	α Aquilæ	9	46 0.46	+ 0.07	+ 1.66	30 14 11.58	27.114	+ 35.5	47.5	19 46	.....	.. ..	....
9	θ Piscium	9	23 1.33	+ 0.05	+ 1.77	32 59 59.32	27.449	+ 39.9	46.8	23 23	.....	.. ..	....
10	Moon I, S	9	34 10.52	+ 0.04	+ **1.74**	39 35 59.75	30.289	+ 50.9	**46.0**	23 34 12.30	+64.01	− 0 46 40.4	....
11	ω Piscium	9	54 18.50	+ 0.06	+ 1.74	32 30 23.48	29.142	+ 39.2	46.2	23 54	.....	.. ..	....
12	33 Piscium	9	0 20.90	+ 0.04	+ 1.72	45 6 8.32	26.092	+1 1.7	46.4	0 0	.....	.. ..	....
13	γ Pegasi	9	8 13.27	+ 0.07	+ 1.75	24 12 14.45	27.465	+ 27.7	44.7	0 8	.....	.. ..	....
14	b Pleiadum	9	42 27.37	+ 0.10	+ **1.72**	12 34 0.32	27.228	+ 13.8	**46.0**	3 42 29.19	− 5.40	+26 17 22.9	− 9.6
15	ζ Persei	9	48 2.05	+ 0.11	+ 1.69	7 15 59.88	26.780	+ 7.9	47.2	3 48	.....	.. ..	....
16	d Pleiadum	9	53 16.96	+ 0.10	+ **1.72**	15 30 1.52	27.935	+ 17.2	**46.0**	3 53 18.78	− 5.30	+23 20 58.6	− 7.9
17	A^1 Tauri	9	58 57.44	+ 0.09	+ 1.73	17 1 59.40	27.904	+ 19.0	45.0	3 58	.....	.. ..	....
18	o^1 Eridani	9	7 7.47	+ 0.06	+ 1.73	45 55 59.35	27.431	+1 3.9	46.5	4 7	.....	.. ..	....
19	γ Tauri	9	14 16.13	+ 0.08	+ 1.74	23 28 5.10	26.251	+ 26.9	45.5	4 14	.....	.. ..	....
	December 8, Br.												
20	α Bootis	9	11 11.02	+ 0.08	+ 2.07	19 9 59.80	27.288	+ 21.7	47.0	14 11	.....	.. ..	....
21	ρ Bootis	9	27 35.54	+ 0.10	+ 2.02	8 2 0.02	30.735	+ 8.9	46.3	14 27	.....	.. ..	....
22	ε Bootis	9	40 41.62	+ 0.10	+ 2.03	11 22 0.32	28.111	+ 12.6	46.3	14 40	.....	.. ..	....
23	δ Bootis	9	11 31.88	+ 0.10	+ 2.01	5 9 58.00	29.218	+ 5.7	46.5	15 11	.....	.. ..	....
24	α Coronæ Borealis	9	30 31.30	+ 0.08	+ 2.04	11 47 58.35	29.189	+ 13.0	47.5	15 30	.....	.. ..	....
	December 9, Br.												
25	Sun I, S	9	1 0.98	+ 0.01	+ **2.04**	61 52 4.18	29.562	+1 55.4	**46.7**	17 1 3.03	+70.83	−23 3 28.1	....
26	Sun II, N	9	3 22.64	+ 0.01	+ **2.04**	61 20 4.92	28.565	+1 52.8	**46.7**	17 3 24.69	−70.83	−22 30 57.1	....
27	α Ophiuchi	9	30 22.56	+ 0.06	+ 2.03	26 12 1.72	29.507	+ 30.4	45.7	17 30	.....	.. ..	....
28	α Lyræ	9	33 35.62	+ 0.12	+ 2.08	0 9 58.02	26.840	+ 0.2	46.5	18 33	.....	.. ..	....
29	β Lyræ	9	46 26.48	+ 0.12	+ 2.04	5 35 57.58	27.925	+ 6.1	46.9	18 46	.....	.. ..	....
30	γ Lyræ	2	55 15.54	+ 0.13	+ 1.99	6 18 1.45	26.912	+ 6.9	46.4	18 55	.....	.. ..	....
31	ζ Aquilæ	9	0 53.87	+ 0.11	+ 2.08	25 8 0.58	26.785	+ 28.9	47.0	19 0	.....	.. ..	....
32	β Cygni	9	26 45.38	+ 0.14	+ 2.03	11 5 59.05	26.922	+ 12.2	47.6	19 26	.....	.. ..	....
33	ω Piscium	9	54 18.02	+ 0.10	+ 2.16	32 32 2.40	25.644	+ 39.7	45.8	23 54	.....	.. ..	....
34	33 Piscium	9	0 20.28	+ 0.08	+ 2.29	45 5 59.80	26.376	+1 2.5	46.7	0 0	.....	.. ..	....
35	6 B. Ursæ Minoris S. P.	7	13 54.77	− 1.80	[− 0.33]	307 8	......	....	....	12 13	.....	.. ..	....
36	44 Piscium	9	20 24.13	+ 0.09	+ 2.17	37 26 3.30	28.452	+ 47.7	46.4	0 20	.....	.. ..	...
37	Moon I, S	2	25 33.21	+ 0.10	+ **2.19**	35 14 6.92	27.519	+ 44.0	**46.5**	0 25 35.50	+65.37	+ 3 36 38.8	....
38	δ Piscium	9	43 37.46	+ 0.10	+ 2.16	31 47 58.05	26.261	+ 38.7	47.4	0 43	.....	.. ..	....
39	f Piscium	8	12 46.31	+ 0.10	+ 2.18	35 43 59.58	28.612	+ 44.9	47.0	1 12	.....	.. ..	....
40	α Ursæ Minoris	5	24 45.90	+ 2.56	[+ 4.45]	310 6	......	....	....	1 24	.....	.. ..	....
41	B. A. C. 852	9	40 14.59	+ 0.10	+ **2.25**	34 32 1.50	28.745	+ 43.0	**46.5**	2 40 16.94	− 4.43	+ 4 18 10.2	−13.1
42	σ Arietis	9	46 7.21	+ 0.11	+ 2.24	24 10 0.35	27.642	+ 28.1	45.6	2 46	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
7 14 41	29.914	31.8	30.2
15 31	29.920	32.1	30.2
8 16 59	29.914	32.7	29.8
18 34	....	....	30.9
19 27	29.916	32.2	29.7
19 42	....	....	29.0
19 46	29.916	32.1	29.0
23 23	29.968	26.9	24.9
0 8	29.964	26.1	24.2
3 42	....	....	22.7
4 14	30.008	23.8	22.0
14 11	30.118	21.0	21.3
14 28	....	....	22.0
15 12	30.152	23.8	23.1
15 31	30.156	24.6	23.8
9 17 3	30.141	26.7	24.9
17 30	30.132	27.5	25.5
18 34	....	....	26.0
18 46	30.122	28.1	26.0
19 1	30.128	28.3	26.0
19 27	30.126	27.7	25.5
23 54	30.178	23.8	22.1
0 0	....	....	22.0
0 26	....	....	21.7
0 44	30.162	23.0	21.2
1 13	30.154	23.0	21.0
2 35	30.162	21.6	20.1
2 46	....	....	20.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 25. Bisections at I, II, III.
4, 26. Bisections at V, VI, VII.
10, 37. Bisections at II, III, IV, V, VI.
14, 30, 36. Bisections at I, II.
16, 27. Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 7.9	−16 15.8	...	−16 7.9
4	+ 7.9	+16 15.8	...	+16 23.7
10	+35 59.0	+15 27.6	...	+51 26.6
25	+ 7.9	+16 15.5	...	+16 23.4
26	+ 7.9	−16 15.5	...	−16 7.6
37	+33 5.3	+15 43.2	...	+48 48.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	*f* Tauri	9	25 30.13	+ 0.11	+ 2. 27	26 14 1.58	29.048	+ 30.8	46. 5	3 25	.....	.. ..	....
2	*a* Pleiadum........	9	31 32.53	+ 0.12	+ **2.27**	14 33 59.95	27.580	+ 16.3	**46.5**	3 31 34.92	− 5.28	+24 17 11.5	− 10.8
3	*b* Pleiadum........	9	42 26.80	+ 0.12	+ **2.28**	12 33 59.00	27.334	+ 14.0	**46.5**	3 42 29.20	− 5.40	+26 17 21.7	− 9.6
4	*d* Pleiadum........	9	53 16.45	+ 0.12	+ **2.28**	15 30 1.92	27.939	+ 17.4	**46.5**	3 53 18.85	− 5.30	+23 20 58.2	− 7.8
5	*A*¹ Tauri	9	58 56.84	+ 0.12	+ 2. 30	17 2 0.00	27.905	+ 19.2	45. 8	3 58	.....	.. ..	....
6	*o*¹ Eridani	9	7 6.88	+ 0.10	+ 2. 28	45 56 2.30	27.341	+1 4.6	47. 5	4 7	.....	.. ..	....
7	γ Tauri	9	14 15.55	+ 0.12	+ 2. 29	23 28 4.35	26.289	+ 27.2	46. 1	4 14	.....	.. ..	....
	December 9 R.												....
8	α Virginis........	9	20 2.13	+ 0.03	+ 2. 32	49 30 17.38	25.778	+1 11.8	44. 7	13 20	.....	.. ..	
9	α Bootis..........	9	11 10.67	+ 0.12	+ 2. 41	19 10 11.35	26.756	+ 21.3	42. 7	14 11	.....	.. ..	....
10	ρ Bootis..........	9	27 35.13	+ 0.16	+ 2. 39	8 2 10.55	30.253	+ 8.7	42. 4	14 27	.....	.. ..	....
11	ε Bootis..........	9	40 41.29	+ 0.15	+ 2. 33	11 22 9.62	27.674	+ 12.3	42. 6	14 40	.....	.. ..	....
12	β Herculis........	9	25 59.12	+ 0.12	+ 2. 35	17 8 10.10	29.178	+ 18.6	43. 2	16 26	.....	.. ..	....
	December 10, R.												
13	Sun I, S.........	9	5 24.15	— 0.01	+ **2.38**	61 58 12.68	28.993	+1 52.2	**44.5**	17 5 26.52	+70.89	−23 9 19.3	....
14	Sun II, N.......	9	7 45.93	— 0.01	+ **2.38**	61 26 8.05	28.130	+1 49.7	**44.5**	17 7 48.30	−70.89	−22 36 46.9	....
15	*o* Herculis.	7	3 41.62	+ 0.16	+ 2. 36	10 6	......	....	....	18 3	.....	.. ..	....
16	α Lyræ	9	33 35.26	+ 0.20	+ 2. 35	0 10 10.45	26.374	+ 0.2	45. 3	18 33	.....	.. ..	....
17	γ Lyræ	9	55 15.04	+ 0.18	+ 2. 44	6 18 11.55	26.571	+ 6.6	45. 8	18 55	.....	.. ..	....
18	β Cygni	9	26 44.95	+ 0.16	+ 2. 43	11 6 6.02	26.641	+ 11.6	45. 8	19 26	.....	.. ..	....
19	β Andromedæ	9	4 16.77	+ 0.10	+ 2. 37	3 43 54.60	29.475	+ 4.0	44. 8	1 4	.....	.. ..	....
20	Moon I, S	9	19 31.45	+ 0.03	+ **2.38**	30 53 57.88	29.758	+ 35.6	**44.4**	1 19 33.86	+67.23	+ 7 55 50.3	....
21	η Piscium	9	26 16.14	+ 0.05	+ 2. 38	23 59 59.05	27.965	+ 26.5	44. 2	1 26	.....	.. ..	....
22	π Piscium	9	31 55.98	+ 0.04	+ 2. 36	27 12 0.35	27.888	+ 30.6	44. 7	1 31	.....	.. ..	....
23	β Arietis	9	49 15.61	+ 0.06	+ 2. 39	18 31 47.68	25.867	+ 19.9	43. 9	1 49	.....	.. ..	....
	December 14, Br.												
24	*f* Tauri	9	25 29.82	+ 0.12	+ 2. 57	26 14 1.05	28.934	+ 30.9	42. 7	3 25	.....	.. ..	....
25	*a* Pleiadum........	8	31 32.32	+ 0.16	+ **2.52**	14 33 54.05	27.640	+ 16.3	**42.6**	3 31 35.00	− 5.29	+24 17 11.9	−10.8
26	*b* Pleiadum........	7	42 26.61	+ 0.16	+ **2.52**	12 34 1.52	27.040	+ 14.0	**42.6**	3 42 29.29	− 5.42	+26 17 23.4	− 9.7
27	ζ Persei	9	48 1.23	+ 0.18	+ 2. 46	7 15 59.95	26.626	+ 8.0	43. 4	3 48	.....	.. ..	....
28	*d* Pleiadum........	9	53 16.18	+ 0.15	+ **2.52**	15 29 59.38	27.890	+ 17.4	**42.6**	3 53 18.85	− 5.32	+23 20 58.3	− 7.8
29	*A*¹ Tauri	9	58 56.63	+ 0.15	+ 2. 50	17 2 0.45	27.752	+ 19.2	42. 0	3 58	.....	.. ..	....
30	γ Tauri	9	14 15.32	+ 0.13	+ 2. 54	23 28 3.48	26.181	+ 27.2	42. 0	4 14	.....	.. ..	....
31	Moon I, S	9	29 37.42	+ 0.14	+ **2.51**	20 33 57.60	30.357	+ 23.5	**42.6**	5 29 40.07	+74.16	+ 18 15 43.8	....
32	Moon II.........	9	32 5.75	+ 0.14	+ **2.51**	20 18	......	....	....	5 32 8.40	−74.17	.. ..	....
33	κ Orionis..........	9	43 8.31	+ 0.09	+ 2. 55	48 32 3.20	28.701	+1 10.8	42. 8	5 43	.....	.. ..	....
34	μ Geminorum	9	17 4.56	+ 0.16	+ 2. 54	16 16 0.58	30.580	+ 18.3	42. 7	6 17	.....	.. ..	....
35	α Canis Majoris....	9	40 51.47	+ 0.08	+ 2. 42	55 24 3.52	29.478	+ 1 30.5	42. 7	6 40	.....	.. ..	....
	December 17, R.												
36	ω¹ Cancri..........	9	55 2.85	+ 0.19	+ 2. 19	13 11 59.90	27.255	+ 14.2	41. 5	7 55	.....	.. ..	....
37	η Cancri..........	9	27 4.92	+ 0.18	+ 2. 22	18 4 25.30	28.791	+ 19.8	41. 1	8 27	.....	.. ..	....
38	σ Hydræ	9	33 40.15	+ 0.12	+ 2. 28	35 10 8.58	27.047	+ 42.6	42. 0	8 33	.....	.. ..	....
39	Moon II, S.......	9	47 34.44	+ 0.15	+ **2.26**	26 36 7.75	29.578	+ 30.3	**41.3**	8 47 36.85	−70.34	+12 13 47.8	....
40	θ Hydræ	9	9 17.84	+ 0.12	+ 2. 37	36 6 6.28	30.205	+ 44.0	41. 5	9 9	.....	.. ..	....
41	α Lyncis	9	15 7.44	+ 0.23	+ 2. 23	4 2 7.12	30.232	+ 4.3	40. 3	9 15	.....	.. ..	....
42	*o* Leonis	9	35 57.01	+ 0.15	+ 2. 26	28 30 8.75	29.291	+ 32.6	41. 5	9 35	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
9 3 21	30. 158	21. 2	20. 0
3 42	......	....	20. 0
4 14	30. 158	21. 1	20. 0
13 20	29. 977	23. 9	25. 4
14 11	29. 980	26. 7	27. 3
14 28	......	...	28. 3
14 41	29. 984	28. 2	28. 8
16 26	29. 935	33. 0	34. 8
10 17 8	29. 904	35. 1	36. 4
18 34	29. 833	38. 2	39. 6
18 55	......	....	40. 3
19 27	29. 812	40. 7	40. 7
1 4	29. 835	39. 3	39. 2
1 20	......	....	39. 2
1 32	......	.. .	39. 2
1 49	29. 832	39. 3	39. 0
14 3 25	30. 350	24. 3	22. 2
3 59	30. 354	24. 1	22. 2
4 14	......	....	22. 2
5 30	30. 352	24. 3	22. 8
6 41	30. 360	24. 8	23. 2
17 7 55	29. 616	28. 7	28. 0
8 27	......	....	27. 6
8 34	......	....	27. 5
8 48	29. 606	28. 7	27. 3
9 15	.. ...	....	29. 1
9 36	29. 610	29. 0	30. 3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

8.	Bisections at VI, VII.
10, 19, 21, 23, 25, 38, 41.	Bisections at II, VI, VII.
13.	Bisections at I, II, III.
14.	Bisections at V, VI, VII.
20.	Bisections at II, III, V, VI.
26.	Bisections at I, II.
31, 39.	Bisections at II,III,IV,V,VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
13	+ 7.9	+16 16.2	...	+16 24.1
14	+ 7.9	−16 16.2	...	−16 8.3
20	+29 58.3	+15 59.8	...	+45 58.1
31	+21 27.2	+16 45.9	...	+38 13.1
39	+26 51.1	+16 26.6	...	+43 17.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	*l* Leonis	9	44 7.70	+ 0.16	+ 2.25	27 46 6.85	30.441	+ 31.6	41.5	10 44	.....	.. ..	....
2	p^3 Leonis	9	1 55.56	+ 0.14	+ 2.16	36 22 7.80	26.824	+ 44.1	40.9	11 1	.....	.. ..	....
3	B. A. C. 3824	9	6 36.60	+ 0.17	+ **2.23**	23 54 11.90	30.138	+ 26.6	**41.3**	11 6 39.00	− 3.50	+14 55 31.4	+28.0
4	τ Leonis	9	22 54.92	+ 0.14	+ 2.25	35 26 7.18	30.076	+ 42.6	41.6	11 22	.....	.. ..	....
5	β Leonis	9	44 4.49	+ 0.17	+ 2.22	23 44 7.75	27.701	+ 26.3	40.7	11 44	.....	.. ..	....
6	Mars I, N	4	0 39.81	+ 0.14	+ **2.21**	36 32 4.42	27.952	+ 44.3	**41.3**	12 0 42.16	+ 0.25	+ 2 18 23.4	....
7	Mars II, S.......	5	0 40.35	+ 0.14	+ **2.21**	36 32 4.42	28.312	+ 44.3	**41.3**	12 0 42.70	− 0.29	+ 2 18 13.2	....
8	η Virginis.........	9	14 54.31	+ 0.14	+ 2.23	38 58 2.40	28.011	+ 48.4	41.2	12 14	.....	.. ..	....
	December 17, L.												
9	ρ Bootis......	9	27 35.71	+ 0.21	+ 1.98	8 2 9.48	30.291	+ 8.5	40.0	14 27	.....	.. ..	....
10	ε Bootis...........	9	40 41.82	+ 0.20	+ 1.95	11 22 4.70	27.849	+ 12.0	40.0	14 40	.....	.. ..	....
11	α Coronæ Borealis .	9	30 31.44	+ 0.20	+ 1.96	4 48 9.42	28.706	+ 12.4	41.5	15 30	.....	.. ..	....
12	α Serpentis	9	39 26.29	+ 0.14	+ 1.98	32 6 9.25	28.959	+ 37.1	42.4	15 39	.....	.. ..	....
	December 18, L.												
13	Sun I, S	9	40 44.74	+ 0.07	+ **1.92**	62 28 13.25	29.268	+1 52.2	**41.6**	17 40 46.73	+71.25	−23 39 30.6	....
14	Sun N.............	..	.. ..	....	.....	61 56 11.50	28.247	+1 49.6	**41.6**	.. ..	.....	−23 6 56.6	....
15	Venus I, C.......	9	2 41.14	+ 0.07	+ **1.91**	62 48 6.72	27.345	+1 53.6	**41.6**	18 2 43.12	+ 0.46	−23 58 30.3	....
16	Venus II	9	2 42.05	+ 0.07	+ **1.91**	... .	......	....	....	18 2 44.03	− 0.45	.. ..	....
17	ζ Aquilæ..........	9	0 54.01	+ 0.20	+ 1.85	25 8 7.65	26.388	+ 27.5	42.0	19 0	.....	.. ..	....
18	β Cygni	9	26 45.34	+ 0.27	+ 1.89	11 6 11.15	26.406	+ 11.5	42.2	19 26	.....	.. ..	....
19	α Aquilæ	9	46 0.04	+ 0.20	+ 1.91	30 14 8.15	27.164	+ 34.2	42.8	19 46	.....	.. ..	....
20	θ Aquilæ..........	9	6 15.10	+ 0.17	+ 1.91	39 56 9.50	29.258	+ 49.2	42.6	20 6	.....	.. ..	....
21	ε Cygni	9	42 14.33	+ 0.31	+ 1.85	5 14 8.65	28.550	+ 5.5	41.2	20 42	.....	.. ..	....
22	ω^1 Cancri...........	9	55 3.27	+ 0.23	+ 1.76	13 12 4.92	27.024	+ 14.2	39.9	7 55	.....	.. ..	....
23	B. A. C. 2761.....	9	8 56.91	+ 0.18	+ **1.79**	25 30 4.92	28.499	+ 28.8	**40.4**	8 8 58.88	− 4.71	+13 20 21.9	+21.7
24	η Cancri...........	9	27 5.38	+ 0.21	+ 1.76	18 4 6.58	29.435	+ 19.7	40.6	8 27	.....	.. ..	....
25	σ Hydræ..........	9	33 40.63	+ 0.14	+ 1.81	35 10 4.40	27.146	+ 42.5	40.6	8 33	.....	.. ..	....
26	γ Cancri...........	9	37 39.68	+ 0.21	+ 1.82	17 2 7.08	27.738	+ 18.5	39.2	8 37	.....	.. ..	....
27	B. A. C. 3000.....	9	46 37.93	+ 0.24	+ **1.79**	10 14 6.02	27.431	+ 10.9	**40.4**	8 46 39.96	− 4.83	+28 37 8.9	+27.9
28	Moon II, S	9	46 28.37	+ 0.16	+ **1.79**	30 38 8.20	27.704	+ 35.7	**40.4**	9 46 30.32	−68.22	+ 8 12 34.4	....
29	B. A. C. 3824.....	9	6 36.98	+ 0.18	+ **1.79**	23 54 7.92	30.262	+ 26.7	**40.4**	11 6 38.95	− 3.53	+14 55 30.7	+28.2
30	τ Leonis	9	22 55.45	+ 0.16	+ 1.75	35 26 3.80	30.171	+ 42.9	41.1	11 22	.....	.. ..	....
31	υ Leonis	9	31 57.36	+ 0.14	+ 1.82	39 8 4.92	27.170	+ 49.0	41.2	11 31	.....	.. ..	....
32	π Virginis.........	9	55 52.38	+ 0.16	+ 1.75	31 40 4.65	30.576	+ 37.3	40.4	11 55	.....	.. ..	....
33	Mars I, C	9	2 21.02	+ 0.14	+ **1.79**	36 42 5.70	28.121	+ 45.0	**40.4**	12 2 22.95	+ 0.31	+ 2 8 15.7	....
34	Mars II	9	2 21.70	+ 0.14	+ **1.79**	... .	......	....	....	12 2 23.63	− 0.37	.. ..	....
35	6 B. Ursæ Minoris .	7	13 52.49	+ 5.46	[+ 1.09]	310 38	......	....	....	12 13	.....	.. ..	....
36	ε Virginis.........	9	57 18.63	+ 0.17	+ 1.84	27 22 5.75	27.520	+ 31.3	40.6	12 57	.....	.. ..	....
37	α Ursæ Minoris S. P.	7	24 50.21	− 7.35	[+ 2.80]	307 40	......	....	....	1 24	.....	.. ..	....
	December 18, Br.												
38	δ Bootis...........	9	11 32.13	+ 0.22	+ 1.86	5 10 2.32	28.990	+ 5.5	41.0	15 11	.....	.. ..	....
39	β Coronæ Borealis .	9	23 46.43	+ 0.21	+ 1.90	9 24 5.50	29.132	+ 10.0	42.4	15 23	.....	.. ..	....
40	α Coronæ Borealis .	9	30 31.53	+ 0.20	+ 1.89	11 48 2.30	28.974	+ 12.5	41.8	15 30	.....	.. ..	....
41	α Serpentis........	9	39 26.39	+ 0.16	+ 1.88	32 6 2.82	29.246	+ 37.5	42.1	15 39	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
17 10 44	29.600	29.7	30.6
11 7	......	....	31.9
11 23	29.614	30.3	32.3
11 44	......	....	32.3
12 1	......	....	32.2
12 15	29.624	30.6	32.1
14 28	29.642	31.5	35.0
14 41	......	....	35.7
15 31	29.652	36.0	38.8
15 39	......	....	39.2
18 17 43	29.684	42.1	43.0
18 3	......	....	43.1
19 1	29.680	43.0	43.0
19 27	......	....	42.7
19 46	29.674	43.8	42.8
20 6	29.672	43.6	42.1
20 42	29.698	43.0	41.8
7 55	29.808	30.6	30.8
8 47	29.808	31.8	32.3
9 46	29.806	32.2	31.8
11 7	29.804	32.9	33.2
11 23	......	....	32.3
11 32	......	....	32.2
11 56	......	....	31.3
12 2	29.820	32.7	31.2
12 57	29.818	31.8	30.8
15 12	29.852	35.0	34.8
15 31	......	....	36.6
15 39	29.856	37.0	37.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3.	Bisections at II, VI, VII.
6.	Bisections at I, VII.
7.	Bisections at II, VI.
12, 17, 20.	Z. D. thread D_1 used.
13.	Bisections at I, II, III.
14.	Bisections at V, VI, VII.
28.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 3.7	− 5.2	+ 0.2	− 1.3
7	+ 3.7	+ 5.2	...	+ 8.9
13	+ 8.0	+16 17.0	....	+16 25.0
14	+ 7.9	−16 16.9	...	−16 9.0
15	+ 4.6	....	0.0	+ 4.6
28	+30 6.8	+16 12.2	...	+46 19.0
33	+ 3.8	....	+ 0.1	+ 3.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	December 19, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N	9	45 10.98	+ 0.09	+ **1.85**	61 58 1.38	27.825	+1 49.9	**42.0**	17 45 12.92	+71.18	−23 8 34.9	....
2	Sun II, S	9	47 33.34	+ 0.09	+ **1.85**	62 30 2.22	28.907	+1 52.4	**42.0**	17 47 35.28	−71.18	−23 41 8.5	....
3	Venus I, C	4	8 12.00	+ 0.09	+ **1.84**	62 48 7.48	30.536	+1 53.8	**42.0**	18 8 13.93	+ 0.42	−24 0 1.8	....
4	Venus II	5	8 12.83	+ 0.09	+ **1.84**	... .	......	....	....	18 8 14.76	− 0.41	.. ..	....
5	α Lyræ	9	33 35.78	+ 0.24	+ 1.78	0 10 2.48	26.601	+ 0.2	41.2	18 33	.....	.. ..	....
6	β Lyræ	9	46 26.62	+ 0.22	+ 1.78	5 36 3.48	27.678	+ 5.8	42.4	18 46	.....	.. ..	....
7	β Cygni	9	26 45.47	+ 0.21	+ 1.82	11 6 7.78	26.566	+ 11.5	43.2	19 26	.....	.. ..	....
8	α Aquilæ	9	46 0.12	+ 0.16	+ 1.87	30 14 6.85	27.234	+ 33.9	43.1	19 46	.....	.. ..	....
9	ε Cygni	9	42 14.38	+ 0.22	+ 1.88	5 14 3.15	28.748	+ 5.4	41.1	20 42	.....	.. ..	....
	December 21, Br.												
10	γ Cancri	9	37 39.74	+ 0.21	+ 1.85	17 2 1.95	28.048	+ 17.8	41.9	8 37	.....	.. ..	....
11	B. A. C. 3000	9	46 38.01	+ 0.24	+ **1.81**	10 13 58.68	27.752	+ 10.5	**42.0**	8 46 40.06	−4.92	+28 37 9.1	+28.0
12	κ Cancri	9	2 28.88	+ 0.17	+ 1.83	27 48 11.20	26.212	+ 30.6	42.4	9 2	.....	.. ..	....
13	θ Hydræ	9	9 18.36	+ 0.14	+ 1.83	36 6 18.50	29.894	+ 42.4	42.6	9 9	.....	.. ..	....
14	α Lyncis	9	15 8.03	+ 0.27	+ 1.73	4 2 22.28	29.745	+ 4.2	41.3	9 15	.....	.. ..	....
15	B. A. C. 3824	9	6 37.06	+ 0.19	+ **1.80**	23 54 4.05	30.506	+ 25.9	**42.0**	11 6 39.05	−3.63	+14 55 30.0	+28.7
16	β Leonis	9	44 4.99	+ 0.19	+ 1.83	23 44 3.30	27.932	+ 25.7	41.4	11 44	.....	.. ..	....
17	π Virginis	9	55 52.44	+ 0.16	+ 1.79	31 40 3.68	30.759	+ 36.0	42.6	11 55	.....	.. ..	....
18	Mars I, C	9	7 19.22	+ 0.14	+ **1.80**	37 12 5.05	27.172	+ 44.3	**42.0**	12 7 21.16	+ 0.39	+ 1 38 45.7	....
19	Mars II	9	7 20.07	+ 0.14	+ **1.80**	... .	......	....	....	12 7 22.01	− 0.46	.. ..	....
20	6 B. Ursæ Minoris	5	13 53.62	+ 7.01	[+ 0.63]	310 38	......	....	....	12 14	.....	.. ..	....
21	Moon II, S	9	26 13.62	+ 0.12	+ **1.79**	43 56 3.40	30.090	+ 56.3	**42.0**	12 26 15.53	−64.15	− 5 6 47.7	....
22	31 Comæ Berenices	9	46 56.07	+ 0.24	+ 1.81	10 46 4.25	30.100	+ 11.2	43.1	12 46	.....	.. ..	....
2.	α Canum Venat.	9	51 26.85	+ 0.30	+ 1.76	0 0 1.62	29.731	+ 0.1	41.3	12 51	.....	.. ..	....
24	ε Virginis	9	57 18.78	+ 0.17	+ 1.78	27 22 5.30	27.628	+ 30.3	41.6	12 57	.....	.. ..	....
25	α Ursæ Minoris S.P.	7	24 51.09	−10.00	[+ 1.69]	307 40	......	....	....	1 24	.....	.. ..	....
	December 22, R.												
26	p^3 Leonis	9	1 56.06	+ 0.15	+ 1.83	36 22 0.82	27.124	+ 43.8	41.2	11 1	.....	.. ..	....
27	B. A. C. 3824	9	6 37.08	+ 0.20	+ **1.79**	23 54 4.92	30.435	+ 26.5	**40.4**	11 6 39.07	−3.67	+14 55 29.3	+28.8
28	τ Leonis	9	22 55.55	+ 0.15	+ 1.77	35 25 59.82	30.350	+ 42.4	40.8	11 22	.....	.. ..	....
29	υ Leonis	9	31 57.52	+ 0.13	+ 1.79	39 8 1.42	27.329	+ 48.5	40.8	11 31	.....	.. ..	....
30	π Virginis	9	55 52.48	+ 0.17	+ 1.77	31 42 2.78	26.459	+ 36.8	39.8	11 55	.....	.. ..	....
31	Mars I, N	4	8 57.13	+ 0.14	+ **1.80**	37 22 1.08	26.285	+ 45.6	**40.4**	12 8 59.07	+ 0.21	+ 1 29 12.1	....
32	Mars II, S	5	8 57.60	+ 0.14	+ **1.80**	37 22 1.08	26.565	+ 45.6	**40.4**	12 8 59.54	− 0.26	+ 1 29 4.1	....
33	6 B. Ursæ Minoris	2	13 51.40	+ 9.02	[+ 1.52]	310 38	......	....	....	12 14	.....	.. ..	....
34	δ^2 Corvi	9	24 49.14	+ 0.06	+ 1.82	54 48 3.18	28.356	+1 24.6	41.3	12 24	.....	.. ..	....
35	ε Virginis	9	57 18.76	+ 0.19	+ 1.81	27 22 1.98	27.675	+ 31.0	40.0	12 57	.....	.. ..	....
36	θ Virginis	9	4 53.69	+ 0.11	+ 1.80	43 52 3.00	26.678	+ 57.6	39.2	13 4	.....	.. ..	....
37	Moon II, S	9	16 31.26	+ 0.09	+ **1.81**	48 0 3.55	27.144	+1 6.5	**40.4**	13 16 33.16	−63.74	− 9 9 35.7	....
38	α Ursæ Minoris S.P.	7	24 52.97	−12.93	[+ 1.84]	307 40	......	....	....	1 24	.....	.. ..	....
39	η Bootis	5	50 1.40	+ 0.23	+ 1.81	19 57 59.65	27.645	+ 21.8	40.1	13 50	.....	.. ..	....
	December 23, Br.												
40	ω Piscium	9	54 18.24	+ 0.11	+ 1.77	32 32 2.45	25.568	+ 38.6	40.5	23 54	.....	.. ..	....
41	α Andromedæ	9	3 20.98	+ 0.20	+ 1.78	10 18 3.62	26.879	+ 11.1	42.7	0 3	.....	.. ..	....
42	6 B. Ursæ Minoris S. P.	6	14 7.78	− 6.77	[+ 1.26]	307 8	......	....	....	12 14	.....	.. ..	....
43	π Andromedæ	9	31 40.80	+ 0.23	+ 1.76	5 40 4.92	27.334	+ 6.1	42.3	0 31	.....	.. ..	....
44	δ Piscium	9	43 37.69	+ 0.12	+ 1.76	31 48 3.85	25.960	+ 37.7	42.6	0 43	.....	.. ..	....
45	α Ursæ Minoris	7	24 28.03	+10.15	[+ 3.25]	310 6	......	....	....	1 24	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
19 17 45	29.809	43.6	44.3
18 8	29.804	44.8	45.0
18 46	29.790	46.1	46.6
19 27	29.780	47.9	48.0
19 46	29.782	48.8	48.3
20 42	29.780	50.1	49.1
21 8 38	29.678	49.0	48.3
9 15	29.682	48.0	47.3
11 7	29.678	46.0	45.2
11 44	29.694	46.0	46.0
12 26	29.722	45.9	45.1
12 57	29.744	45.0	44.2
2! 11 2	......	....	37.5
11 7	29.810	39.3	37.4
11 23	......	....	37.3
11 32	......	....	37.2
11 56	29.828	38.2	36.9
12 9	......	....	36.4
12 25	... ..	....	36.3
12 57	29.858	37.2	35.5
13 5	. ....	...	35.3
13 50	29.895	36.3	35.0
23 23 54	30.020	35.0	33.0
0 32	......	....	31.5
0 44	30.032	33.2	31.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1. Bisections at I, II, III.
2. Bisections at V, VI, VII.

6, 27. Bisections at VI, VII.

14. Bisections at II, VI, VII.
21. Bisections at II, IV, VI.
31. Bisections at I, VII.
32. Bisections at II, VI.
37. Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 7.9	−16 16.8	...	−16 8.9
2	+ 8.0	+16 16.7	...	+16 24.7
3	+ 4.6	....	0.0	+ 4.6
18	+ 3.9	....	+ 0.1	+ 4.0
21	+39 9.4	+15 27.0	...	+54 36.4
31	+ 3.9	− 4.1	+ 0.2	0.0
32	+ 3.9	+ 4.1	...	+ 8.0
37	+41 22.5	+15 14.6	...	+56 37.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	π Piscium	9	31 56.38	+ 0.13	+ 1.75	27 12 4.50	27.605	+ 31.4	40.9	1 31	.....	.. ..	....
2	B. A. C. 852	9	40 15.01	+ 0.11	+ **1.75**	34 32 3.72	28.588	+ 42.1	**41.0**	2 40 16.87	− 4.36	+ 4 18 7.9	−12.1
3	ζ Arietis	9	9 19.07	+ 0.17	+ 1.77	18 10 2.82	27.326	+ 20.1	40.5	3 9	.....	.. ..	....
4	f Tauri	9	25 30.56	+ 0.14	+ 1.80	26 14 5.20	28.736	+ 30.2	40.1	3 25	.....	.. ..	....
5	a Pleiadum........	9	31 32.99	+ 0.18	+ **1.75**	14 33 59.68	27.355	+ 15.9	**40.6**	3 31 34.92	− 5.27	+24 17 12.6	−11.1
6	c Pleiadum........	9	42 57.70	+ 0.17	+ **1.75**	17 12 4.42	30.361	+ 19.0	**40.5**	3 42 59.62	− 5.22	+21 37 39.1	− 9.1
7	ζ Persei...........	9	48 1.94	+ 0.22	+ 1.70	7 16 6.75	26.290	+ 7.8	41.0	3 48	.....	.. ..	....
8	d Pleiadum........	9	53 16.94	+ 0.18	+ **1.75**	15 30 2.62	27.700	+ 17.0	**40.5**	3 53 18.87	− 5.33	+23 20 58.7	− 8.1
9	A^1 Tauri	9	58 57.37	+ 0.17	+ 1.75	17 2 4.00	27.574	+ 18.8	40.1	3 58	.....	.. ..	....
10	ε Tauri	9	22 56.96	+ 0.16	+ 1.73	19 54 7.12	25.538	+ 22.2	41.0	4 22	.....	.. ..	....
	December 23, R.												
11	m Virginis	9	36 29.22	+ 0.10	+ 1.75	47 2 1.82	29.635	+1 6.9	40.6	13 36	.....	.. ..	....
12	η Bootis...........	..	.. ..	....	.....	19 58 6.52	27.438	+ 22.7	41.5	13 50	.....	.. ..	....
13	Moon II.........	9	6 35.09	+ 0.09	+ **1.74**	51 18	......	....	....	14 6 36.92	−63.71	.. ..	....
14	α Bootis...........	9	11 11.65	+ 0.19	+ 1.74	19 10 3.58	27.062	+ 21.7	40.2	14 11	.....	.. ..	....
15	β Herculis.........	8	25 59.88	+ 0.20	+ 1.73	17 7 57.32	29.637	+ 19.1	40.0	16 26	.....	.. ..	....
	December 25, Br.												
16	δ Bootis...........	9	11 32.17	+ 0.27	+ 1.96	5 10 5.10	29.000	+ 5.6	41.9	15 11	.....	.. ..	....
17	α Serpentis........	8	39 26.40	+ 0.12	+ 2.07	32 6 2.88	29.270	+ 38.6	42.3	15 39	.....	.. ..	....
18	ε Coronæ Borealis .	9	53 30.88	+ 0.23	+ 2.02	11 39 58.18	31.122	+ 12.8	42.1	15 53	.....	.. . .	....
19	β Herculis.........	9	25 59.70	+ 0.20	+ 1.95	17 8 0.75	29.587	+ 19.0	41.4	16 26	.....	.. ..	....
	December 26, Br.												
20	Sun I, S.........	7	16 16.73	− 0.02	+ **1.99**	62 27 56.45	30.080	+1 56.8	**41.8**	18 16 18.70	+71.22	−23 39 41.2	....
21	Sun II, N........	9	18 39.17	− 0.02	+ **1.99**	61 56 2.18	28.812	+1 54.2	**41.8**	18 18 41.14	−71.22	−23 7 7.8	....
22	α Lyræ	9	33 35.56	+ 0.30	+ 1.96	0 9 59.58	26.744	+ 0.2	40.2	18 33	.....	.. ..	....
23	Venus I, C.......	4	46 46.52	− 0.02	+ **1.99**	62 38 2.90	30.086	+1 57.5	**41.8**	18 46 48.49	+ 0.35	−23 49 48.3	....
24	Venus II	5	46 47.21	− 0.02	+ **1.99**	... .	......	....	....	18 46 49.18	− 0.34	.. ..	....
25	α Aquilæ..........	9	46 0.06	+ 0.13	+ 1.96	30 14 0.78	27.438	+ 35.5	43.3	19 46	.....	.. ..	....
26	ε Cygni...........	9	42 14.13	+ 0.27	+ 2.02	5 13 56.05	29.069	+ 5.7	41.9	20 42	.....	.. ..	....
27	ζ Cygni...........	9	8 45.63	+ 0.24	+ 1.99	9 1 59.78	26.011	+ 9.7	41.7	21 8	.....	.. ..	....
28	α Andromedæ	9	3 20.59	+ 0 18	+ 2.15	10 18 4.70	26.854	+ 11.2	43.0	0 3	.....	.. ..	....
29	6 B. Ursæ Minoris S. P.	5	14 9.80	− 7.05	[+ 1.49]	307 8	......	....	....	12 14	.....	.. ..	....
30	π Andromedæ	9	31 40.48	+ 0.20	+ 2.06	5 40 5.60	27.275	+ 6.1	41.2	0 31	.....	.. ..	....
31	δ Piscium	9	43 37.38	+ 0.09	+ 2.07	31 48 2.50	25.969	+ 37.9	41.6	0 43	.....	.. ..	....
32	α Ursæ Minoris	5	24 25.30	+10.49	[+ 3.21]	310 6	......	....	....	1 24	.....	.. ..	....
33	π Piscium	9	31 56.06	+ 0.11	+ 2.06	27 12 2.55	27.706	+ 31.4	41.7	1 31	.....	.. ..	....
34	B. A. C. 852......	9	40 14.71	+ 0.08	+ **2.10**	34 32 2.15	28.652	+ 42.1	**42.1**	2 40 16.89	− 4.34	+ 4 18 8.8	−11.8
35	ζ Arietis	9	9 18.72	+ 0.14	+ 2.13	18 10 2.30	27.388	+ 20.2	42.0	3 9	.....	.. ..	....
36	f Tauri	9	25 30.29	+ 0.11	+ 2.09	26 14 2.78	28.906	+ 30.3	42.5	3 25	.....	.. ..	....
37	a Pleiadum........	9	31 32.62	+ 0.16	+ **2.11**	14 33 57.98	27.508	+ 16.0	**42.1**	3 31 34.89	− 5.26	+24 17 11.4	−11.0
38	c Pleiadum........	9	42 57.38	+ 0.15	+ **2.11**	17 12 1:92	30.510	+ 19.1	**42.1**	3 42 59.64	− 5.21	+21 37 38.9	− 9.0
39	ζ Persei...........	9	48 1.57	+ 0.20	+ 2.09	7 15 59.02	26.628	+ 7.9	43.2	3 48	.....	.. ..	....
40	d Pleiadum........	9	53 16.54	+ 0.16	+ **2.11**	15 30 1.78	27.808	+ 17.1	**42.1**	3 53 18.81	− 5.32	+23 20 58.0	− 8.0
41	A^1 Tauri	9	58 57.01	+ 0.15	+ 2.13	17 2 0.58	27.748	+ 18.9	41.7	3 58	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
23 1 32	30.036	32.0	30.1
2 40	30.044	30.7	29.0
3 26	......	....	28.4
3 59	......	....	28.0
4 23	30.042	29.5	27.6
13 36	30.038	22.4	19.5
13 50	......	....	19.6
14 11	......	....	20.0
16 26	......	....	24.1
16 34	30.041	26.7	....
25 15 12	29.676	20.1	20.2
15 39	......	....	20.2
15 54	29.690	21.9	20.5
16 26	29.690	23.0	21.8
26 18 16	29.654	25.0	23.3
18 34	......	....	23.9
18 47	......	....	23.9
19 46	29.640	27.5	24.3
20 42	29.638	28.3	24.7
21 9	29.636	27.7	25.0
0 3	29.642	24.0	23.0
0 32	......	....	22.8
0 44	29.638	23.6	22.5
1 32	29.636	23.0	22.3
2 40	29.632	22.0	21.6
3 [illegible]	29.632	21.5	20.7
3 32	......	....	20.7
3 59	29.640	21.0	20.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5.	Bisections at I, II, VI.
11, 12.	Bisections at VI, VII.
14, 15, 16, 17, 19.	Bisections at II, VI, VII.
20.	Bisections at I, II, III.
21.	Bisections at V, VI, VII.
35.	Bisections at I, II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
20	+ 8.0	+16 16.6	...	+16 24.6
21	+ 7.9	−16 16.7	...	−16 8.8
23	+ 4.6	....	0.0	+ 4.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	December 26, R.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Coronæ Borealis.	9	30 31.41	+ 0.20	+ 2.21	11 48	......	....	....	15 30	.....	.. ..	....
2	α Serpentis........	9	39 26.22	+ 0.16	+ 2.23	32 6	......	....	....	15 39	.....	.. ..	....
3	δ Ophiuchi........	9	9 12.53	+ 0.15	+ 2.24	42 16	......	....	....	16 9	.....	.. ..	....
4	β Herculis........	9	25 59.52	+ 0.18	+ 2.17	17 8	......	....	....	16 26	.....	.. ..	....
5	π Herculis........	9	11 36.24	+ 0.21	+ 2.15	1 56	......	....	....	17 11	.....	.. ..	....
	December 27, R.												
6	Sun I	9	20 42.84	+ 0.11	+ **2.21**	62 10	......	.....	....	18 20 45.16	+71.22	.. ..	....
7	Sun II	9	23 5.28	+ 0.11	+ **2.21**	... .	......	....	....	18 23 7.60	−71.22	.. ..	....
8	Venus I	4	52 15.86	+ 0.11	+ **2.21**	62 34	......	....	....	18 52 18.18	+ 0.27	.. ..	....
9	Venus II	5	52 16.40	+ 0.11	+ **2.21**	... .	......	....	....	18 52 18.72	− 0.27	.. ..	....
10	α Aquilæ	8	45 59.77	+ 0.14	+ 2.24	30 14	......	....	....	19 46	.....	.. ..	....
11	γ Cygni	8	18 41.48	+ 0.18	+ 2.16	358 54	......	....	....	20 18	.....	.. ..	....
12	ε Cygni	5	42 13.96	+ 0.17	+ 2.28	5 14	......	....	....	20 42	.....	.. ..	....
13	τ Cygni	9	10 52.14	+ 0.17	+ 2.19	1 14	......	....	....	21 10	.....	.. ..	....
14	ζ Arietis	9	9 18.59	+ 0.12	+ 2.28	18 10 2.38	27.352	+ 20.2	40.9	3 9	.....	.. ..	....
15	*f* Tauri..........	9	25 30.09	+ 0.10	+ 2.29	26 13 58.00	29.010	+ 30.3	40.3	3 25	.....	.. ..	....
16	*a* Pleiadum........	9	31 32.51	+ 0.13	+ **2.29**	14 34 2.30	27.279	+ 16.0	**40.6**	3 31 34.93	− 5.26	+ 24 17 12.1	−11.1
17	*c* Pleiadum........	9	42 57.22	+ 0.12	+ **2.29**	17 12 1.52	30.459	+ 19.1	**40.6**	3 42 59.63	− 5.21	+ 21 37 39.2	− 9.0
18	ζ Persei	9	48 1.43	+ 0.14	+ 2.28	7 15 59.90	26.552	+ 7.9	41.7	3 48	.....	.. ..	....
19	A^1 Tauri	9	58 56.86	+ 0.12	+ 2.31	17 1 58.12	27.761	+ 18.9	39.6	3 58	.....	.. ..	....
	December 29, Br.												
20	α Serpentis........	9	39 26.41	+ 0.09	+ 2.19	32 6 1.10	29.298	+ 37.8	39.7	15 39	.....	.. ..	....
21	δ Ophiuchi........	9	9 12.76	+ 0.07	+ 2.16	42 16 2.22	29.659	+ 54.6	39.8	16 9	.....	.. ..	....
22	β Herculis........	9	25 59.64	+ 0.13	+ 2.16	17 8 2.62	29.479	+ 18.6	38.9	16 26	.....	.. ..	...
23	ζ Ophiuchi........	5	31 46.11	+ 0.05	+ 2.09	49 2	......	....	....	16 31	.....	.. ..	....
24	α^1 Herculis........	9	10 10.19	+ 0.11	+ 2.15	24 20 9.72	28.787	+ 27.1	37.7	17 10	.....	.. ..	....
	December 30, Br.												
25	Sun I, N	9	34 1.54	+ 0.04	+ **2.09**	61 44 10.25	30.243	+1 50.0	**39.8**	18 34 3.67	+71.13	−22 55 54.8	....
26	Sun II, S........	9	36 23.81	+ 0.04	+ **2.09**	62 16 10.70	31.408	+1 52.6	**39.8**	18 36 25.94	−71.14	−23 28 30.8	....
27	γ Lyræ	9	55 15.48	+ 0.16	+ 2.03	6 18 7.00	26.702	+ 6.6	39.7	18 55	.....	.. ..	....
28	ζ Aquilæ..........	9	0 53.87	+ 0.12	+ 2.12	25 8 8.58	26.416	+ 27.8	39.2	19 0	.....	.. ..	....
29	Venus I, C	4	8 42.25	+ 0.06	+ **2.08**	62 16 9.50	29.650	+1 52.4	**40.0**	19 8 44.39	+ 0.39	−23 27 39.2	....
30	Venus II	5	8 43.02	+ 0.06	+ **2.08**	... .	......	....	....	19 8 45.16	− 0.38	.. ..	....
31	Mercury C, C....	9	22 3.71	+ 0.07	+ **2.07**	63 6 6.45	29.945	+1 56.3	**40.0**	19 22 5.85	+ 0.01	−24 17 48.4	....
32	β Cygni..........	9	26 45.29	+ 0.16	+ 2.06	11 6 9.32	26.502	+ 11.6	40.3	19 26	.....	.. ..	....
33	α Aquilæ..........	9	45 59.95	+ 0.13	+ 2.08	30 14 5.80	27.232	+ 34.5	40.9	19 46	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
27 3 9	29.722	21.5	21.1
3 26	......	....	21.3
3 48	......	....	21.0
3 59	29.728	21.2	20.9
29 15 39	29.940	32.2	35.0
16 9	......	....	35.4
16 26	29.962	35.8	36.0
17 10	29.966	37.1	37.6
30 18 36	29.942	40.1	41.9
19 1	......	....	42.1
19 9	29.940	41.1	42.5
19 27	29.936	42.0	42.9
19 46	29.938	43.0	43.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

15, 18. Bisections at VI, VII.
20. Bisections at II, VI, VII.
24. Bisections at I, II, VII.
25. Bisections at I, II, III.
26. Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
25	+ 7.9	−16 17.9	...	−16 10.0
26	+ 8.0	+16 18.0	...	+16 26.0
29	+ 4.6	....	0.0	+ 4.6
31	+ 5.9	....	0.0	+ 5.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 6, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Andromedæ	9	3 21.87	+ 0.21	+ 0.68	10 18 6.12	26.781	+ 10.9	41.1	0 3	.....	.. ..	....
2	6 B. Ursæ Minoris s. p.	5	14 19.60	- 6.04	[− 1.15]	307 8	......	....	....	12 14	.....	.. ..	....
3	π Andromedæ	9	31 41.69	+ 0.23	+ 0.66	5 40 2.35	27.346	+ 6.0	39.1	0 31	.....	.. ..	....
4	δ Piscium	9	43 38.58	+ 0.14	+ 0.69	31 48 5.42	25.852	+ 37.0	39.5	0 43	.....	.. ..	....
5	Moon I, S	9	57 23.75	+ 0.13	+ **0.68**	32 54 3.82	27.020	+ 38.6	**39.5**	0 57 24.56	+65.23	+ 5 56 54.5	....
6	β Andromedæ	9	4 17.96	+ 0.24	+ 0.65	3 44 0.15	29.076	+ 4.0	38.9	1 4	.....	.. ..	....
7	f Piscium	9	12 47.46	+ 0.12	+ 0.71	35 44 5.58	28.261	+ 43.0	39.0	1 12	.....	.. ..	....
8	α Ursæ Minoris	6	24 18.18	+ 9.13	[+ 0.76]	310 6	......	....	....	1 24	.....	.. ..	....
	January 8, Br.												
9	β Herculis.........	9	26 2.28	+ 0.17	− 0.29	17 8 1.52	29.575	+ 19.0	38.4	16 26	.....	.. ..	....
10	ζ Ophiuchi........	7	31 48.68	+ 0.11	− 0.29	49 12	......	....	....	16 31	.....	.. ..	....
11	κ Ophiuchi........	9	53 4.07	+ 0.14	− 0.34	29 18 7.75	29.746	+ 34.5	38.0	16 53	.....	.. ..	....
12	α¹ Herculis.........	9	10 12.79	+ 0.15	− 0.30	24 20 9.45	28.819	+ 27.8	36.7	17 10	.....	.. ..	....
13	α Ophiuchi........	9	30 25.27	+ 0.14	− 0.36	26 12 6.98	29.200	+ 30.1	35.4	17 30	.....	.. ..	....
	January 9, Br.												
14	Sun I, S.........	9	18 5.23	+ 0.02	− **0.34**	61 18 4.92	27.112	+1 50.0	**36.7**	19 18 4.91	+70.64	−22 28 23.3	....
15	Sun II, N........	9	20 26.51	+ 0.02	− **0.34**	60 46 3.35	26.013	+1 47.6	**36.7**	19 20 26.19	−70.64	−21 55 47.9	....
16	Venus C, C	9	2 44.37	+ 0.02	− **0.35**	60 32 8.65	27.294	+1 46.4	**36.5**	20 2 44.04	+ 0.01	−21 42 28.7	....
17	Mercury C, C	9	29 27.91	+ 0.02	− **0.36**	59 36 7.85	27.574	+1 42.2	**36.4**	20 29 27.57	+ 0.03	−20 46 31.8	....
18	ε Cygni	9	42 16.43	+ 0.23	− 0.31	5 14 8.90	28.559	+ 5.6	36.8	20 42	.....	.. ..	....
19	ζ Cygni	9	8 47.92	+ 0.21	− 0.35	9 2 7.52	25.673	+ 9.6	36.5	21 8	.....	.. ..	....
20	α Aquarii..........	9	0 47.92	+ 0.09	− 0.36	39 38 7.80	27.050	+ 49.4	36.8	22 0	.....	.. ..	....
21	ζ Pegasi...........	7	36 37.53	+ 0.13	− 0.47	28 32 3.00	25.665	+ 32.4	35.5	22 36	.....	.. ..	....
22	α Pegasi...........	9	59 55.83	+ 0.14	− 0.37	24 10 2.80	26.868	+ 26.8	35.1	22 59	.....	.. ..	....
23	ζ Arietis	9	9 21.09	+ 0.13	− 0.35	18 10 6.10	27.101	+ 19.8	36.8	3 9	.....	.. ..	....
24	f Tauri	9	25 32.64	+ 0.10	− 0.35	26 14 3.85	28.719	+ 29.8	36.9	3 25	.....	.. ..	....
25	ε Eridani	9	28 23.14	+ 0.03	− 0.39	48 38 11.72	26.230	+1 8.4	38.8	3 28	.....	.. ..	....
26	b Pleiadum........	9	42 29.36	+ 0.15	− **0.37**	12 32 5.32	30.968	+ 13.5	**37.2**	3 42 29.14	− 1.70	+26 17 23.1	+1.1
27	Moon I, S	9	48 57.37	+ 0.12	− **0.37**	22 34 5.95	28.889	+ 25.2	**37.2**	3 48 57.12	+71.49	+16 16 10.2	....
28	A¹ Tauri	9	58 59.51	+ 0.14	− 0.42	17 2 1.68	27.548	+ 18.6	36.8	3 58	.....	.. ..	....
29	o¹ Eridani	9	7 9.50	+ 0.04	0.33	45 56 6.00	27.094	+1 2.5	37.4	4 7	.....	.. ..	....
30	γ Tauri	9	14 18.24	+ 0.11	− 0.38	23 26 9.35	30.062	+ 26.3	36.6	4 14	.....	.. ..	....
	January 9, R.												
31	δ Ophiuchi........	9	9 15.53	+ 0.15	− 0.42	42 17 58.45	25.532	+ 56.4	38.6	16 9	.....	.. ..	....
32	β Herculis.........	4	26 2.42	+ 0.20	− 0.44	17 8	......	....	....	16 26	.....	.. ..	....
33	π Herculis.........	9	11 39.19	+ 0.23	− 0.55	1 56 4.05	27.860	+ 2.2	38.7	17 11	.....	.. ..	....
34	α Ophiuchi........	9	30 25.38	+ 0.18	− 0.49	26 12 0.65	29.510	+ 30.4	37.7	17 30	.....	.. ..	....
35	α Lyræ............	9	33 38.22	+ 0.24	− 0.50	0 9 58.68	26.848	+ 0.2	37.7	18 33	.....	.. ..	....
	January 10, R.												
36	Sun I, S.........	8	22 26.95	+ 0.12	− **0.51**	61 8 7.35	30.268	+1 50.7	**38.2**	19 22 26.56	+70.45	−22 19 54.9	....
37	Sun II, N........	9	24 47.85	+ 0.12	− **0.51**	60 36 10.05	29.158	+1 48.2	**38.2**	19 24 47.46	−70.45	−21 47 23.3	....
38	ε Cygni	9	42 16.71	+ 0.22	− 0.58	5 14 0.08	28.910	+ 5.6	37.7	20 42	.....	.. ..	....
39	ε Pegasi...........	9	39 25.09	+ 0.18	− 0.49	29 24 1.20	29.308	+ 34.2	38.7	21 39	.....	.. ..	....
40	f Tauri	9	25 32.77	+ 0.14	− 0.53	26 13 48.08	29.315	+ 30.4	38.6	3 25	.....	.. ..	....
41	ε Tauri	9	22 59.22	+ 0.15	− 0.57	19 53 51.88	25.986	+ 22.3	38.4	4 22	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
6 0 3	29.436	32.6	31.1
0 44	29.440	31.8	30.2
0 57	......	....	30.1
1 13	29.456	31.1	30.0
8 16 26	29.582	18.7	18.1
16 53	......	....	19.8
17 10	29.582	20.8	20.2
17 30	29.580	22.0	21.4
9 19 18	29.508	26.3	25.9
20 3	29.480	27.5	26.7
20 29	29.462	28.8	27.2
20 42	......	...	27.6
21 9	29.444	29.5	28.5
22 1	......	....	30.7
22 37	29.434	32.5	31.5
23 0	29.440	32.6	31.0
3 9	29.522	26.9	27.3
3 28	29.536	27.0	27.0
3 59	......	....	25.8
4 14	29.558	26.1	25.8
16 9	29.550	19.0	19.0
17 12	29.880	21.2	21.1
17 30	29.884	22.2	21.9
18 34	29.876	25.1	24.2
10 19 22	29.864	27.0	26.0
20 42	29.848	29.3	28.2
21 39	29.857	31.6	29.9
3 26	29.908	25.1	23.7
4 23	29.912	24.4	23.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 27. Bisections at II, III, IV, V, VI.
14, 36. Bisections at I, II, III.
15, 37. Bisections at V, VI, VII.
19, 20, 33, 40. Bisections at II, VI, VII.
21. Bisections at I, II, VI.
34. Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+30 57.4	+15 37.6	...	+46 35.0
14	+ 7.9	+16 17.6	...	+16 25.5
15	+ 7.8	−16 17.7	...	−16 9.9
16	+ 4.6	....	0.0	+ 4.6
17	+ 6.4	....	+ 0.1	+ 6.5
27	+22 54.4	+16 23.2	...	+39 17.6
36	+ 7.9	+16 15.8	...	+16 23.7
37	+ 7.8	−16 15.7	...	−16 7.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ι Tauri	9	45 44.12	+ 0.15	− 0.57	20 9 54.35	28.905	+ 22.7	37.2	4 45	.....	.. ..	....
2	Moon I, S	9	53 9.17	+ 0.15	− **0.56**	20 57 48.60	26.653	+ 23.6	**37.7**	4 53 8.76	−73.18	+17 53 33.3	....
3	τ Orionis..........	6	12 55.86	+ 0.12	− 0.55	45 47 55.62	26.501	+1 3.2	38.0	5 12	.....	.. ..	....
4	β Tauri	9	20 12.02	+ 0.16	− 0.57	10 20 0.02	26.927	+ 11.3	38.1	5 20	.....	.. ..	....
5	Neptune C, C....	9	7 57.37	+ 0.16	− **0.56**	16 31 49.72	30.335	+ 18.4	**37.7**	6 7 56.97	.....	+22 17 52.6	....
6	γ Geminorum	9	32 8.88	+ 0.15	− 0.57	22 21 55.48	27.966	+ 25.4	35.9	6 32	.....	.. ..	....
	January 11, Br.												
7	β Tauri	9	20 12.39	+ 0.14	− 0.92	10 20 6.90	26.721	+ 10.8	38.7	5 20	.....	.. ..	....
8	δ Orionis..........	9	27 5.66	+ 0.09	− 0.99	39 12 0.12	29.581	+ 48.3	38.1	5 27	.....	.. ..	....
9	Moon I, S	9	59 38.02	+ 0.12	− **0.96**	20 42 7.20	30.742	+ 22.4	**38.3**	5 59 37.18	+73.93	+18 7 20.1	....
10	Neptune C, C....	9	7 50.98	+ 0.13	− **0.96**	16 32 2.78	29.810	+ 17.7	**38.3**	6 7 50.15	.....	+22 17 55.7	....
11	ν Geminorum	9	23 15.12	+ 0.13	− 1.05	18 34 1.80	29.055	+ 20.0	37.9	6 23	.....	.. ..	....
12	γ Geminorum	9	32 9.28	+ 0.12	− 0.94	22 22 5.55	27.682	+ 24.5	36.9	6 32	.....	.. ..	....
13	51 H. Cephei	9	55 41.89	+ 1.97	[− 1.48]	311 40	......	....	....	6 55	.....	.. ..	....
14	λ Ursæ Minoris S. P.	7	17 55.31	− 5.15	[− 2.21]	307 52	......	....	....	19 17	.....	.. ..	....
15	α² Geminorum......	9	28 27.65	+ 0.15	− 0.97	6 44 9.15	30.042	+ 7.0	38.9	7 28	.....	.. ..	....
16	β Geminorum	9	39 25.69	+ 0.14	− 0.92	10 36 6.18	26.803	+ 11.1	39.4	7 39	.....	.. ..	....
	January 11, L.												
17	δ Ophiuchi	9	9 16.45	+ 0.11	− 1.24	42 16 6.65	29.484	+ 56.3	38.9	16 9	.....	.. ..	....
18	β Herculis	9	26 3.39	+ 0.16	− 1.31	17 8 7.90	29.390	+ 19.1	38.9	16 26	.....	.. ..	....
19	ζ Ophiuchi	9	31 49.79	+ 0.10	− 1.31	49 12 5.62	27.996	+1 11.7	39.2	16 31	.....	.. ..	....
20	κ Ophiuchi	9	53 5.04	+ 0.13	− 1.23	29 18 4.62	29.945	+ 34.8	40.2	16 53	.....	.. ..	....
	January 12, L.												
21	Sun I, S.........	9	31 8.94	+ 0.05	− **1.28**	60 50 5.22	30.003	+1 50.0	**39.5**	19 31 7.71	+70.53	−22 1 43.2	....
22	Sun II, N	9	33 29.99	+ 0.05	− **1.28**	60 17 53.02	29.283	+1 47.6	**39.5**	19 33 28.76	−70.52	−21 29 7.9	....
23	α Aquilæ..........	9	46 3.47	+ 0.09	− 1.33	30 14 2.45	27.326	+ 35.8	39.3	19 46	.....	.. ..	....
24	Venus I, C	9	18 37.13	+ 0.05	− **1.28**	59 48 1.18	26.408	+1 45.6	**39.5**	20 18 35.90	+ 0.44	−20 57 52.2	....
25	Venus II	9	18 38.00	+ 0.05	− **1.28**	... .	......	....	....	20 18 36.77	− 0.43	.. ..	....
26	ε Cygni	9	42 17.57	+ 0.13	− 1.35	5 14 0.50	28.979	+ 5.7	39.7	20 42	.....	.. ..	....
27	Mercury C, C....	9	47 15.95	+ 0.05	− **1.28**	58 7 52.85	26.998	+1 38.9	**39.5**	20 47 14.72	+ 0.05	−19 17 54.0	....
28	ζ Cygni	9	8 48.89	+ 0.12	− 1.24	9 2 1.30	25.966	+ 9.9	38.5	21 8	.....	.. ..	....
29	ε Pegasi..........	9	39 25.92	+ 0.08	− 1.22	29 24 6.42	29.199	+ 34.9	41.4	21 39	.....	.. ..	....
30	ν Orionis..........	9	2 5.20	+ 0.14	− 1.40	24 4 3.88	27.925	+ 28.1	39.1	6 2	.....	.. ..	....
31	Neptune C, C....	9	7 44.51	+ 0.15	− **1.41**	16 32 1.35	29.799	+ 18.7	**41.0**	6 7 43.25	.....	+22 17 59.0	....
32	Pallas	9	12 14.12	+ 0.06	− **1.41**	69 42 1.68	27.785	+2 48.9	**41.0**	6 12 12.77	.....	−30 53 33.6	....
33	μ Geminorum	9	17 8.79	+ 0.15	− 1.37	16 16 4.65	30.414	+ 18.4	41.8	6 17	.....	.. ..	....
34	ν Geminorum	9	23 15.49	+ 0.14	− 1.42	18 34 1.52	29.129	+ 21.2	41.0	6 23	.....	.. ..	....
35	ε Geminorum	9	38 1.26	+ 0.15	− 1.47	13 37 59.48	26.861	+ 15.3	41.4	6 37	.....	.. ..	....
36	51 H. Cephei	7	55 41.84	+ 1.89	[− 1.27]	311 40	.....	....	....	6 55	.....	.. ..	....
37	Moon I, S	9	6 33.02	+ 0.13	− **1.43**	22 0 2.05	26.748	+ 25.5	**41.0**	7 6 31.72	+73.57	+16 51 18.6	....
38	λ Ursæ Minoris S. P.	5	17 54.84	− 4.73	[− 2.47]	307 52	......	....	....	19 17	.....	.. ..	....
39	φ Geminorum	9	47 37.04	+ 0.14	− 1.43	11 50 0.65	28.292	+ 13.3	41.4	7 47	.....	.. ..	....
40	B. A. C. 2761	9	9 0.72	+ 0.11	− **1.45**	25 30 5.60	28.540	+ 30.1	**41.0**	8 8 59.38	−1.86	+13 20 19.3	+13.6
41	η Cancri..........	9	27 9.26	+ 0.12	− 1.48	18 4 5.42	29.531	+ 20.6	41.3	8 27	.....	.. ..	....
42	γ Cancri..........	9	37 43.65	+ 0.12	− 1.49	17 2 2.10	27.989	+ 19.4	40.7	8 37	.....	.. ..	....
43	B. A. C. 3000	9	46 41.97	+ 0.13	− **1.46**	10 14 6.48	27.458	+ 11.4	**41.0**	8 46 40.64	−1.83	+28 37 7.8	+15.4
44	κ Cancri	9	2 32.72	+ 0.10	− 1.42	27 48 18.42	25.941	+ 33.3	41.7	9 2	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
10 4 46	......	....	23.3
4 53	......	....	23.3
5 13	.. ...	...	23.2
5 20	29.894	24.2	23.1
6 8	......	....	22.5
6 32	29.874	23.7	22.3
11 5 20	29.274	31.6	31.7
6 0	......	....	32.1
6 23	......	....	31.2
6 32	29.326	31.5	31.1
7 28	......	....	34.2
7 39	29.368	33.3	34.1
16 9	29.740	19.4	18.0
16 26	......	....	18.1
16 32	29.734	19.6	18.1
16 53	......	....	18.2
12 19 33	29.720	23.2	20.9
19 46	......	....	20.9
20 19	29.716	23.7	20.0
20 42	......	....	19.2
20 47	29.724	23.8	19.8
21 9	......	....	19.0
21 39	29.750	23.1	18.9
6 2	29.900	15.4	13.9
6 23	......	....	13.3
6 38	29.906	14.9	13.2
7 48	29.908	14.1	12.4
8 27	......	....	12.6
9 3	29.922	14.8	12.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 4, 10, 16, 30.	Bisections at II, VI, VII.
2, 37.	Bisections at II, III, IV, V, VI.
5, 32.	Bisections at VI, VII.
9.	Bisections at III, IV, V.
21.	Bisections at I, II, III.
22.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+21 35.7	+16 35.4	...	+38 11.1
5	+ 0.1	....	...	+ 0.1
9	+21 32.4	+16 43.4	...	+38 15.8
10	+ 0.1	....	...	+ 0.1
21	+ 7.8	+16 17.6	...	+16 25.4
22	+ 7.8	−16 17.7	...	−16 9.9
24	+ 4.6	....	0.0	+ 4.6
27	+ 6.7	....	+ 0.1	+ 6.8
31	+ 0.1	....	...	+ 0.1
32	+ 5.7	....	...	+ 5.7
37	+22 51.5	+16 46.0	...	+39 37.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 12, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α¹ Herculis.........	9	10 13.98	+ 0.10	— 1.36	24 20 4.88	29.142	+ 28.6	41.0	17 10	.....	.. ..	....
2	α Ophiuchi	9	30 26.46	+ 0.10	— 1.43	26 12 3.10	29.555	+ 31.0	41.7	17 30	.....	.. ..	....
3	μ Herculis.........	9	42 40.04	+ 0.13	— 1.44	11 4 3.15	28.615	+ 12.4	43.7	17 42	.....	.. ..	....
4	α Lyræ	9	33 39.27	+ 0.17	- 1.44	0 10 0.12	26.982	+ 0.2	42.0	18 33	.....	.. ..	....
5	γ Lyræ	7	55 19.13	+ 0.15	— 1.50	6 18 6.80	26.955	+ 7.0	41.8	18 55	.....	.. ..	....
	January 13, Br.												
6	Sun I, N.........	9	35 29.07	+ 0.02	· **1.43**	60 7 58.52	29.660	+1 48.3	**41.7**	19 35 27.66	+70.32	—21 19 22.8	....
7	Sun II, S........	9	37 49.71	+ 0.02	— **1.43**	60 40 1.00	30.640	+1 50.8	**41.7**	19 37 48.30	—70.32	—21 51 55.6	....
8	Venus I, C.......	4	23 52.43	+ 0.02	— **1.43**	59 30 5.32	30.308	+1 45.5	**41.7**	20 23 51.02	+ 0.38	—20 41 45.2	....
9	Venus II	5	23 53.18	+ 0.02	— **1.43**	... .	......	....	....	20 23 51.77	— 0.37	.. ..	....
10	ε Cygni	9	42 17.59	+ 0.15	— 1.39	5 14 2.20	29.014	+ 5.8	42.3	20 42	.....	.. ..	....
11	Mercury C, C....	7	52 44.50	+ 0.03	— **1.42**	57 36 2.15	28.562	+1 37.6	**41.7**	20 52 43.11	+ 0.06	—18 46 44.4	....
12	ζ Cygni	9	8 49.04	+ 0.14	— 1.41	9 2 4.72	25.950	+ 9.9	41.2	21 8	.....	.. ..	....
13	ε Pegasi...........	9	39 26.11	+ 0.09	— 1.42	29 24 7.58	29.190	+ 34.9	42.1	21 39	.....	.. ..	....
14	ζ Pegasi..........	9	36 38.53	+ 0.09	— 1.45	28 32 0.32	25.899	+ 33.6	40.2	22 36	.....	.. ..	....
15	λ Pegasi...........	9	41 52.59	+ 0.12	— 1.44	15 47 59.92	26.776	+ 17.6	41.1	22 41	.....	.. ..	....
16	51 H. Cephei	9	55 43.72	+ 1.05	[— 2.25]	311 40	......	....	....	6 55	.....	.. ..	....
17	δ Geminorum	9	14 23.25	+ 0.10	— 1.47	16 40	......	....	....	7 14	.....	.. ..	....
18	λ Ursæ Minoris S. P.	5	17 50.06	— 2.61	[— 0.07]	307 52	......	....	....	19 17	.....	.. ..	....
19	β Geminorum	9	39 26.32	+ 0.11	— 1.49	10 36 6.10	26.850	+ 11.8	41.6	7 39	.....	.. ..	....
20	φ Geminorum	9	47 37.21	+ 0.10	— 1.55	11 50 7.88	28.009	+ 13.2	40.5	7 47	.....	.. ..	....
21	ω¹ Cancri	9	55 7.24	+ 0.10	— 1.57	13 12 7.12	26.940	+ 14.7	39.6	7 55	.....	.. ..	....
22	B. A. C. 2761.....	9	9 0.88	+ 0.09	— **1.52**	25 30 4.25	28.569	+ 29.9	**40.5**	8 8 59.45	— 1.87	+13 20 19.5	+13.6
23	Moon II, S	9	14 23.66	+ 0.09	— **1.53**	24 38 6.50	27.673	+ 28.7	**40.5**	8 14 22.22	—72.24	+14 12 44.1	....
24	σ Hydræ	9	33 44.55	+ 0.08	— 1.50	35 10 9.52	27.079	+ 44.1	41.2	8 33	.....	.. ..	....
25	γ Cancri...........	9	37 43.72	+ 0.10	— 1.52	17 2 3.35	27.920	+ 19.2	39.8	8 37	.....	.. ..	....
26	B. A. C. 3000.....	9	46 42.07	+ 0.11	— **1.53**	10 14 13.00	27.225	+ 11.4	**40.5**	8 46 40.65	— 1.86	+28 37 7.4	+15.4
27	κ Cancri...........	9	2 32.88	+ 0.09	— 1.55	27 48 4.40	26.436	+ 33.0	41.4	9 2	.....	.. ..	....
28	α Lyncis	9	15 12.13	+ 0.11	— 1.56	4 2 5.08	30.284	+ 4.5	39.6	9 15	.....	.. ..	....
	January 14, R.												
29	ω¹ Cancri...........	9	55 7.37	+ 0.13	— 1.72	13 11 57.35	27.308	+ 14.3	39.7	7 55	.....	.. ..	...
30	B. A. C. 2761.....	9	9 1.01	+ 0.10	— **1.76**	25 29 59.58	28.798	+ 29.1	**40.9**	8 8 59.35	— 1.88	+13 20 19.0	+13.7
31	γ Cancri	9	37 43.94	+ 0.13	— 1.75	17 1 58.65	28.116	+ 18.7	40.2	8 37	.....	.. ..	....
32	B. A. C. 3000.....	9	46 42.30	+ 0.15	— **1.76**	10 14 4.95	27.495	+ 11.0	**40.9**	8 46 40.69	— 1.88	+28 37 8.6	+15.4
33	κ Cancri	9	2 33.08	+ 0.11	— 1.75	27 48 0.22	26.622	+ 32.1	41.6	9 2	.....	.. ..	....
34	Moon S	..	.. ..	....	.....	28 20 3.48	28.862	+ 32.8	**40.9**	9 15	.....	+10 30 9.5	....
35	ο Leonis	9	36 1.82	+ 0.11	— 1.78	28 30 1.78	29.655	+ 33.1	41.2	9 36	.....	.. ..	....
36	π Leonis	9	55 8.52	+ 0.12	— 1.75	30 20 13.60	27.963	+ 35.7	41.2	9 55	.....	.. ..	....
37	Ceres............	9	16 27.76	+ 0.15	— **1.76**	14 2 1.10	29.022	+ 15.3	**40.9**	10 16 26.15	.....	+24 48 24.7	....
38	ρ Leonis	9	27 45.41	+ 0.12	— 1.80	29 1 56.88	29.095	+ 33.8	41.3	10 27	.....	.. ..	....
	January 14, L.												
39	θ Herculis.........	9	52 56.29	+ 0.20	— 2.10	1 36 6.62	26.328	+ 1.7	40.0	17 52	.....	.. ..	....
40	ο Herculis.........	9	3 46.35	+ 0.18	— 2.02	10 6 8.10	27.744	+ 10.7	40.9	18 3	.....	.. ..	....
41	α Lyræ............	9	33 39.95	+ 0.20	— 2.12	0 10 0.78	26.884	+ 0.2	39.3	18 33	.....	.. ..	....
42	β Lyræ............	9	46 30.73	+ 0.19	— 2.11	5 36 4.12	27.838	+ 5.9	39.9	18 46	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
12 17 10	30.036	13.8	13.7
17 30	30.046	14.9	14.9
17 43	......	....	15.0
18 34	30.048	18.7	18.1
18 55	......	....	18.9
13 19 35	30.030	21.1	19.5
20 24	30.022	22.0	20.1
20 53	30.022	23.0	21.5
21 39	30.020	24.6	22.1
22 37	......	....	22.9
22 42	30.034	25.0	22.7
7 39	30.086	19.4	19.0
7 55	......	....	18.9
8 14	30.084	19.2	18.7
8 47	......	....	18.5
9 15	30.092	19.0	18.8
14 7 55	29.796	25.8	26.2
8 9	......	....	26.2
8 38	......	....	27.2
8 47	29.790	26.8	27.4
9 3	......	....	27.6
9 16	......	....	27.2
9 36	29.796	26.9	26.1
9 55	......	....	25.7
10 16	......	....	25.7
10 28	29.770	26.2	26.1
17 53	29.792	34.4	35.0
18 4	......	....	34.2
18 34	......	....	33.9
18 47	29.774	34.8	34.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 5, 29, 42.	Bisections at VI, VII.
6.	Bisections at I, II, III.
7.	Bisections at V, VI, VII.
11.	Bisections at I, VI, VII.
23, 34.	Bisections at II, III, IV, V, VI.
30, 36.	Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 7.8	—16 16.4	...	—16 8.6
7	+ 7.8	+16 16.4	...	+16 24.2
8	+ 4.6	....	0.0	+ 4.6
11	+ 6.8	....	+ 0.2	+ 7.0
23	+25 22.2	+16 42.4	...	+42 4.6
31	+28 39.1	+16 33.2	...	+45 12.3
37	+ 1.2	....	...	+ 1.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	January 15, L.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N	9	44 7.46	+ 0.12	— **2.11**	59 48 5.78	28.037	+1 42.2	**39.7**	19 44 5.47	+70.19	—20 58 39.7	....
2	Sun II, S	9	46 27.84	+ 0.12	— **2.11**	60 20 5.50	29.178	+1 44.5	**39.7**	19 46 25.85	—70.19	—21 31 14.2	....
3	Venus I, C	9	34 19.67	+ 0.12	— **2.12**	58 58 1.58	26.248	+1 38.3	**39.7**	20 34 17.67	+ 0.43	—20 7 40.6	....
4	Venus II	9	34 20.51	+ 0.12	— **2.12**	... .	......	....	....	20 34 18.51	— 0.41	.. ..	....
5	ε Cygni	9	42 18.31	+ 0.19	— 2.15	5 14 12.12	28.599	+ 5.5	39.6	20 42	.....	.. ..	....
6	ζ Cygni	9	8 49.69	+ 0.18	— 2.11	9 2 7.92	25.792	+ 9.4	39.0	21 8	.....	.. ..	....
7	τ Cygni	9	10 56.32	+ 0.20	— 2.16	1 14 12.28	25.598	+ 1.3	39.2	21 10	.....	.. ..	....
8	ε Pegasi	9	39 26.72	+ 0.15	— 2.10	29 24 14.90	28.905	+ 33.3	39.4	21 39	.....	.. ..	....
9	π Leonis	9	55 9.09	+ 0.16	— 2.34	30 20 8.92	28.136	+ 34.9	40.6	9 55	.....	.. ..	....
10	Moon II, S	9	16 14.30	+ 0.16	— **2.32**	32 42 4.52	29.656	+ 38.2	**39.9**	10 16 12.14	—68.43	+ 6 7 39.5	....
11	ρ Leonis	9	27 45.89	+ 0.16	— 2.29	29 2 1.18	28.916	+ 33.1	39.6	10 27	.....	.. ..	....
12	41 Leonis Minoris	9	38 12.16	+ 0.17	— 2.34	15 8 5.32	30.675	+ 16.2	39.8	10 38	.....	.. ..	....
13	*l* Leonis	9	44 13.12	+ 0.16	— 2.31	27 48 0.08	26.541	+ 31.4	38.5	10 44	.....	.. ..	....
14	B. A. C. 3824	9	6 42.00	+ 0.16	— **2.32**	23 54 7.95	30.400	+ 26.4	**39.9**	11 6 39.84	— 1.25	+14 55 26.6	+13.2
15	6 B. Ursæ Minoris	7	14 20.94	+ 1.72	[— 3.50]	310 38	......	....	....	12 14	.....	.. ..	....
16	δ² Corvi	9	24 54.02	+ 0.14	— 2.35	54 48 3.85	28.490	+1 24.3	40.4	12 24	.....	.. ..	....
17	γ Virginis (*mean*)	9	36 47.75	+ 0.15	— 2.27	39 44 5.85	30.915	+ 49.5	40.9	12 36	.....	.. ..	....
18	Mars I, S	9	42 59.71	+ 0.15	— **2.33**	40 36 6.05	27.915	+ 51.0	**39.9**	12 42 57.53	+ 0.31	— 1 45 45.2	....
19	Mars II, N	9	43 0.38	+ 0.15	— **2.33**	40 36 6.05	27.565	+ 51.0	**39.9**	12 42 58.20	— 0.36	— 1 45 35.2	....
20	ε Virginis	9	57 23.73	+ 0.16	— 2.34	27 22 4.25	27.769	+ 30.8	39.9	12 57	.....	.. ..	....
21	θ Virginis	9	4 58.61	+ 0.15	— 2.38	43 52 3.82	26.838	+ 57.2	39.3	13 4	.....	.. ..	....
22	α Ursæ Minoris S. P.	5	24 21.10	— 2.18	[— 0.20]	307 40	......	....	....	1 24	.....	.. ..	....
	January 15, Br.												
23	μ Herculis	5	42 40.92	+ 0.16	— 2.29	11 4 3.58	28.550	+ 11.7	40.8	17 42	.....	.. ..	....
24	α Lyræ	9	33 40.17	+ 0.18	— 2.31	0 10 5.22	26.750	+ 0.2	39.6	18 33	.....	.. ..	....
25	β Lyræ	8	46 30.99	+ 0.17	— 2.34	5 36 5.45	27.794	+ 5.8	40.0	18 46	.....	.. ..	....
26	γ Lyræ	9	55 19.98	+ 0.17	— 2.33	6 18 3.22	27.030	+ 6.6	40.4	18 55	.....	.. ..	....
	January 16, Br.												
27	Sun I, S	9	48 25.42	+ 0.13	— **2.30**	60 8 0.90	31.505	+1 41.9	**40.7**	19 48 23.25	+70.11	—21 20 12.3	....
28	Sun II, N	9	50 45.63	+ 0.13	— **2.30**	59 35 58.65	30.512	+1 39.7	**40.7**	19 50 43.46	—70.10	—20 47 39.5	....
29	Venus I, C	4	39 31.38	+ 0.13	— **2.29**	58 38 10.65	30.448	+1 35.8	**41.0**	20 39 29.22	+ 0.32	—19 49 45.5	....
30	Venus II	5	39 32.00	+ 0.13	— **2.29**	... .	......	....	....	20 39 29.84	— 0.30	.. ..	....
31	ε Cygni	9	42 18.51	+ 0.17	— 2.33	5 14	......	....	....	20 42	.....	.. ..	....
32	Mercury C, C	9	7 18.28	+ 0.13	— **2.29**	56 0 7.55	30.300	+1 26.5	**41.1**	21 7 16.12	+ 0.07	—17 11 29.2	....
33	τ Cygni	8	10 56.38	+ 0.17	— 2.19	1 14 8.50	25.818	+ 1.3	41.7	21 10	.....	.. ..	....
34	ε Pegasi	9	39 26.91	+ 0.15	— 2.29	29 24 7.00	29.301	+ 32.9	42.3	21 39	.....	.. ..	....
35	ζ Pegasi	9	36 39.32	+ 0.15	— 2.32	28 32 13.42	25.527	+ 31.6	40.2	22 36	.....	.. ..	....
	January 17, R.												
36	π Leonis	9	55 9.39	+ 0.15	— 2.59	30 20 4.92	28.265	+ 34.7	39.8	9 55	.....	.. ..	....
37	Ceres	9	15 16.86	+ 0.19	— **2.58**	13 38 2.90	27.322	+ 14.4	**38.9**	10 15 14.47	.....	+25 13 10.2	....
38	41 Leonis Minoris	9	38 12.45	+ 0.19	— 2.60	15 10 0.38	26.630	+ 16.2	39.4	10 38	.....	.. ..	....
39	*p*³ Leonis	9	2 1.21	+ 0.14	— 2.55	36 21 57.45	27.368	+ 43.8	39.5	11 1	.....	.. ..	....
40	υ Leonis	9	32 2.69	+ 0.13	— 2.58	39 8 3.08	27.399	+ 48.4	39.1	11 32	.....	.. ..	....
41	π Virginis	9	55 57.68	+ 0.15	— 2.59	31 42 3.30	26.560	+ 36.8	38.5	11 55	.....	.. ..	....
42	Moon II, S	9	6 13.78	+ 0.13	— **2.57**	41 58 1.10	28.611	+ 53.6	**38.9**	12 6 11.34	—65.52	— 3 8 3.7	....
43	6 B. Ursæ Minoris	7	14 20.47	+ 4.16	[— 4.03]	310 38	......	....	....	12 14	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
15 19 44	29.746	35.5	35.8
20 34	29.726	37.0	38.0
20 42	......	....	38.2
21 11	......	....	39.0
21 39	29.700	39.9	39.6
9 55	......	...	36.8
10 16	29.756	36.4	37.0
10 28	......	....	37.0
11 7	29.756	36.1	37.0
12 25	29.768	35.8	37.1
13 5	29.768	35.9	37.2
17 43	29.830	37.1	37.0
18 34	29.830	40.0	41.0
18 55	29.824	41.1	41.8
16 19 48	29.796	44.1	45.1
20 42	29.794	46.0	46.2
21 11	.. ...	....	46.9
21 39	29.790	48.2	47.8
22 37	......	....	48.8
23 24	29.762	49.3	....
17 9 55	29.552	36.7	35.2
10 15	......	...	35.0
10 38	29.566	35.8	34.3
11 2	......	....	33.8
11 32	29.573	34.8	34.0
11 56	......	...	33.6
12 6	. ..	....	33.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 27. Bisections at I, II, III.
2, 28. Bisections at V, VI, VII.
7, 32. Bisections at VI, VII.
10, 42. Bisections at II, III, IV, V, VI.
18. Bisections at I, VII.
19. Bisections at II, VI.
23. Bisections at I, II, VI.
35, 39. Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 7.8	—16 17.3	...	—16 9.5
2	+ 7.8	+16 17.2	...	+16 25.0
3	+ 4.5	....	0.0	+ 4.5
10	+32 12.0	+16 19.9	...	+48 31.9
18	+ 5.1	+ 5.1	...	+ 10.2
19	+ 5.1	— 5.1	+ 0.2	+ 0.2
27	+ 7.8	+16 16.3	...	+16 24.1
28	+ 7.7	—16 16.4	...	—16 8.7
29	+ 4.5	....	0.0	+ 4.5
32	+ 7.2	....	+ 0.3	+ 7.5
37	+ 1.2	....	...	+ 1.2
42	+38 33.1	+15 47.3	...	54 20.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Mars I, S	4	45 18.14	+ 0.13	− **2.56**	40 48 11.82	28.632	+ 51.5	**38.9**	12 45 15.71	+ 0.28	− 1 58 12.9	....
2	Mars II, N	5	45 18.75	+ 0.13	− **2.56**	40 48 11.82	28.240	+ 51.5	**38.9**	12 45 16.32	− 0.33	− 1 58 1.7	....
3	ε Virginis	9	57 24.03	+ 0.16	− 2.58	27 22 1.85	27.809	+ 30.9	38.4	12 57	.....	.. ..	....
4	θ Virginis	9	4 58.89	+ 0.12	− 2.56	43 52 1.12	26.880	+ 57.4	37.6	13 4	.....	.. ..	....
5	α Ursæ Minoris S. P.	9	24 23.89	− 5.78	[− 1.64]	307 40	......	....	....	1 24	.....	.. ..	....
6	η Bootis	9	50 6.61	+ 0.18	− 2.52	19 58 2.00	27.728	+ 21.8	39.1	13 50	.....	.. ..	....
	January 18, Br.												
7	μ Leonis	9	47 19.30	+ 0.16	− 2.86	12 24 6.55	26.492	+ 13.9	42.3	9 47	.....	.. ..	....
8	π Leonis	9	55 9.70	+ 0.12	− 2.85	30 20 3.08	28.341	+ 36.8	42.1	9 55	.....	.. ..	....
9	α Leonis	9	3 16.72	+ 0.13	− 2.78	26 24 2.18	28.772	+ 31.3	41.3	10 3	.....	.. ..	....
10	Ceres	9	14 49.91	+ 0.16	− **2.85**	13 28 1.40	30.834	+ 15.1	**41.8**	10 14 47.22	.....	+25 21 33.8	....
11	β Leonis Minoris	9	22 20.90	+ 0.20	− 2.90	1 38 4.55	30.326	+ 1.9	41.3	10 22	.....	.. ..	....
12	o Virginis	9	0 19.91	+ 0.13	− 2.85	29 34 10.75	28.584	+ 35.8	41.3	12 0	.....	.. ..	....
13	6 B. Ursæ Minoris	8	14 18.75	+ 5.01	[− 2.50]	310 38	......	....	....	12 14	.....	.. ..	....
14	δ² Corvi	9	24 54.72	+ 0.06	− 2.88	54 48 6.38	28.278	+1 29.4	41.2	12 24	.....	.. ..	....
15	γ Virginis (*mean*)	9	36 48.46	+ 0.11	− 2.85	39 44 9.60	30.690	+ 52.5	40.6	12 36	.....	.. ..	....
16	Mars I, N	4	46 25.23	+ 0.10	− **2.87**	40 54 8.50	28.268	+ 54.7	**39.9**	12 46 22.46	+ 0.29	− 2 4 1.4	....
17	Mars II, S	5	46 25.85	+ 0.10	− **2.87**	40 54 8.50	28.615	+ 54.7	**39.9**	12 46 23.08	− 0.33	− 2 4 11.3	....
18	Moon II, S	9	58 20.97	+ 0.09	− **2.87**	46 16 6.95	30.016	+1 6.0	**39.9**	12 58 18.19	−64.72	− 7 27 0.9	....
19	θ Virginis	9	4 59.27	+ 0.10	− 2.89	43 52 10.52	26.460	+1 0.7	38.2	13 4	.....	.. ..	....
20	α Ursæ Minoris S. P.	7	24 28.43	− 7.43	[− 5.58]	307 40	......	....	....	1 24	.....	.. ..	....
21	*m* Virginis	9	36 34.68	+ 0.09	− 2.86	47 2 2.40	29.656	+1 8.0	38.2	13 36	.....	.. ..	....
	January 18, L.												
22	η Ophiuchi	8	5 13.00	+ 0.14	−24.67	54 26 10.42	27.270	+1 28.3	40.0	17 4	.....	.. ..	....
23	π Herculis	9	12 3.36	+ 0.33	−24.61	1 56 15.28	27.588	+ 2.2	39.6	17 11	.....	.. ..	....
24	α Ophiuchi	9	30 49.56	+ 0.23	−24.53	26 12 15.08	29.039	+ 31.1	37.8	17 30	.....	.. ..	....
25	μ Herculis	9	43 3.08	+ 0.29	−24.52	11 4 7.38	28.370	+ 12.4	39.3	17 42	.....	.. ..	....
26	θ Herculis	9	53 18.68	+ 0.34	−24.54	1 36 17.80	25.955	+ 1.8	39.6	17 52	.....	.. ..	....
	January 19, L.												
27	Sun I, S	9	1 37.03	+ 0.12	−**24.38**	59 33 57.05	28.668	+1 46.3	**39.2**	20 1 12.77	+69.89	−20 44 53.5	....
28	Sun II, N	9	3 56.80	+ 0.12	−**24.38**	59 1 55.68	27.582	+1 44.0	**39.2**	20 3 32.54	−69.88	−20 12 18.9	....
29	ε Cygni	9	42 40.31	+ 0.30	−24.26	5 13 59.12	29.051	+ 5.8	38.7	20 42	.....	.. ..	....
30	Venus I, C	4	55 19.90	+ 0.11	−**24.31**	57 42 4.22	28.015	+1 38.5	**39.2**	20 54 55.70	+ 0.50	−18 52 34.3	...
31	Venus II	5	55 20.88	+ 0.11	−**24.31**	... .	......	....	....	20 54 56.68	− 0.48	.. ..	....
32	ζ Cygni	9	9 11.83	+ 0.28	−24.35	9 2 5.42	25.819	+ 10.0	39.3	21 8	.....	.. ..	....
33	Mercury C, C	9	18 30.81	+ 0.12	−**24.28**	54 30 2.22	26.216	+1 27.2	**39.2**	21 18 6.65	+ 0.10	−15 39 29.7	....
34	ε Pegasi	9	39 48.84	+ 0.20	−24.28	29 24 4.12	29.188	+ 35.1	40.4	21 39	.....	.. ..	....
35	α Pegasi	9	0 19.44	+ 0.20	−24.13	24 10 10.00	26.721	+ 27.9	38.0	22 59	.....	.. ..	....
36	o Virginis	9	0 40.71	+ 0.26	[−23.75]	29 34	......	....	....	12 0	.....	.. ..	....
37	6 B. Ursæ Minoris	5	14 44.16	+ 2.51	[−24.77]	310 38	......	....	....	12 14	.....	.. ..	....
38	δ² Corvi	9	25 15.43	+ 0.24	[−23.74]	54 48	......	....	....	12 24	.....	.. ..	....
	January 20, R.												
39	π Herculis	9	12 1.68	+ 0.21	−22.76	1 55 57.28	28.271	+ 2.1	40.5	17 11	.....	.. ..	....
40	α Ophiuchi	9	30 47.82	+ 0.16	−22.67	26 12 0.18	29.705	+ 28.9	39.1	17 30	.....	.. ..	....
41	α Lyræ	9	34 0.60	+ 0.20	−22.68	0 10 0.85	26.985	+ 0.2	40.4	18 33	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
17 12 37	29.595	34.0	33.2
12 45	......	....	33.1
13 5	......	...	32.9
13 50	29.666	33.0	31.2
18 9 47	30.096	19.4	16.8
10 3	......	....	16.1
10 22	30.104	18.4	16.1
12 0	30.122	17.0	15.3
12 25	......	....	15.0
12 46	....	....	14.8
13 5	30.134	16.6	14.8
13 37	30.146	16.6	14.2
17 5	30.240	18.0	16.0
17 12	......	....	16.7
17 31	......	....	16.9
17 43	30.268	18.8	17.0
17 53	......	....	17.1
19 20 4	30.242	24.0	20.9
20 43	......	....	22.1
20 55	30.216	24.9	22.0
21 9	......	..	22.0
21 19	......	....	22.2
21 40	30.196	25.4	22.7
23 0	30.202	26.2	23.9
20 17 12	29.436	37.1	37.9
17 31	29.447	38.3	39.3
18 34	29.468	41.0	42.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 16.	Bisections at I, VII.
2, 17.	Bisections at II, VI.
6, 7, 40.	Bisections at II, VI, VII.
18.	Bisections at II, III, IV, V, VI.
22.	Bisections at VI, VII.
22, 32, 34.	Z. D. thread D_1 used.
27.	Bisections at I, II, III.
28.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 5.2	+ 5.7	...	+ 10.9
2	+ 5.2	− 5.7	+ 0.2	− 0.3
10	+ 1.2	....	...	+ 1.2
16	+ 5.2	− 5.0	+ 0.1	+ 0.3
17	+ 5.2	+ 5.0	...	+ 10.2
18	+40 58.5	+15 31.2	...	+56 29.7
27	+ 7.7	+16 17.3	...	+16 25.0
28	+ 7.7	−16 17.3	...	−16 9.6
30	+ 4.5	....	0.0	+ 4.5
33	+ 7.7	....	+ 0.5	+ 8.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Lyræ	9	46 51.40	+ 0.19	−22.69	5 36 3.55	27.978	+ 5.8	41.5	18 46	.....	.. ..	....
2	α Aquilæ	9	46 24.81	+ 0.14	−22.64	30 14 0.90	27.598	+ 33.8	42.1	19 46	.....	.. ..	....
	January 21, R.												
3	Sun I, N	9	10 5.06	+ 0.11	**−22.70**	58 36 9.68	28.610	+1 34.8	**41.4**	20 9 42.47	+69.54	−19 46 50.8	....
4	Sun II, S	9	12 24.14	+ 0.11	**−22.70**	59 8 8.80	29.753	+1 36.8	**41.4**	20 12 1.55	−69.54	−20 19 24.5	....
5	ε Cygni	6	42 38.92	+ 0.18	−22.74	5 14 2.35	29.072	+ 5.4	41.3	20 42	.....	.. ..	....
6	Venus I, N	4	5 29.84	+ 0.11	**−22.71**	57 2 5.35	26.518	+1 29.0	**41.8**	21 5 7.24	+ 0.29	−18 11 40.6	....
7	Venus II, S	5	5 30.41	+ 0.11	**−22.71**	57 2 5.35	26.868	+1 29.0	**41.8**	21 5 7.81	− 0.28	−18 11 50.9	....
8	τ Cygni	9	11 16.88	+ 0.18	−22.71	1 14 1.72	26.150	+ 1.3	42.8	21 10	.....	.. ..	....
9	Mercury C	9	23 0.36	+ 0.11	**−22.71**	53 34	......	....	....	21 22 37.76	+ 0.12	.. ..	....
10	ε Pegasi	8	39 47.32	+ 0.14	−22.70	29 24 4.48	29.448	+ 32.6	43.0	21 39	.....	.. ..	....
11	ζ Pegasi	5	36 59.68	+ 0.14	−22.70	28 32 4.82	25.910	+ 31.4	41.6	22 36	.....	.. ..	....
12	α Pegasi	9	0 18.05	+ 0.15	−22.71	24 10 3.38	27.158	+ 25.9	41.5	22 59	.....	.. ..	....
	January 30, Br.												
13	κ Orionis	..	.. ..	....	.....	48 31 58.58	29.071	+1 7.6	37.4	5 43	.....	.. ..	....
14	θ Aurigæ	8	53 26.51	+ 0.32	−18.21	1 37 58.18	29.716	+ 1.8	36.4	5 53	.....	.. ..	....
15	Neptune C, C	9	6 10.29	+ 0.23	**−18.11**	16 31 55.42	28.141	+ 17.8	**36.8**	6 5 52.41	.....	+22 18 48.9	....
16	μ Geminorum	9	17 25.42	+ 0.23	−18.11	16 15 57.35	30.512	+ 17.5	36.6	6 17	.....	.. ..	....
17	ν Geminorum	9	23 32.06	+ 0.22	−18.08	18 33 56.88	29.188	+ 20.1	36.8	6 23	.....	.. ..	....
18	θ Geminorum	9	46 43.86	+ 0.30	−18.09	4 46	......	....	....	6 46	.....	.. ..	....
19	51 H. Cephei	7	55 54.53	+ 5.35	[−18.54]	311 40	......	....	....	6 55	.....	.. ..	....
20	λ Ursæ Minoris S. P.	7	18 21.64	−14.44	[−18.02]	307 52	......	....	....	19 17	.....	.. ..	....
21	α² Geminorum	9	28 44.72	+ 0.28	−18.05	6 44	......	....	....	7 28	.....	.. ..	....
	January 30, R.												
22	α Ophiuchi	9	30 42.99	+ 0.21	−17.65	26 11 54.38	29.730	+ 29.5	32.9	17 30	.....	.. ..	....
23	μ Herculis	9	42 56.43	+ 0.28	−17.58	11 3 54.08	28.816	+ 11.8	35.2	17 42	.....	.. ..	....
24	ο Herculis	7	4 2.12	+ 0.29	−17.56	10 5 55.42	28.136	+ 10.7	35.3	18 3	.....	.. ..	....
	January 31, R.												
25	Sun I, S	9	51 41.34	+ 0.12	**−17.43**	56 40 0.90	27.572	+1 29.7	**34.8**	20 51 24.03	+68.43	−17 50 13.9	....
26	Sun II, N	9	53 58.21	+ 0.12	**−17.43**	56 7 57.02	26.705	+1 27.9	**34.8**	20 53 40.90	−68.44	−17 17 43.6	....
27	Venus I, N	4	55 4.03	+ 0.14	**−17.37**	53 7 55.22	28.868	+1 18.5	**34.9**	21 54 46.80	+ 0.36	−14 18 33.9	....
28	Venus II, S	5	55 4.73	+ 0.14	**−17.37**	53 7 55.22	29.225	+1 18.5	**34.9**	21 54 47.50	− 0.34	−14 18 44.1	....
29	α Pegasi	5	0 12.52	+ 0.25	−17.34	24 10	......	....	....	22 59	.....	.. ..	....
30	Moon I	5	2 31.16	+ 0.19	**−17.31**	42 36	......	....	....	23 2 14.04	+62.66	.. ..	....
31	α Andromedæ	9	3 39.38	+ 0.30	−17.26	10 17 52.45	27.222	+ 10.7	36.4	0 3	.....	.. ..	....
32	γ Pegasi	9	8 31.39	+ 0.26	−17.21	24 11 54.05	28.011	+ 26.4	34.0	0 8	.....	.. ..	....
	February 4, L.												
33	β Arietis	..	.. ..	....	.....	18 30 6.25	29.510	+ 18.4	42.2	1 49	.....	.. ..	....
34	α Arietis	..	.. ..	....	.....	15 50 6.70	29.174	+ 15.6	42.6	2 1	.....	.. ..	....
35	ξ² Ceti	..	.. ..	....	.....	30 50 5.88	26.136	+ 32.9	43.7	2 23	.....	.. ..	....
36	Moon S	..	.. ..	....	.....	26 46 6.50	30.010	+ 27.9	**43.0**	2 28	.....	+12 3 40.8	....
37	δ Ceti	..	.. ..	....	.....	38 56 2.50	27.886	+ 44.7	44.0	2 35	.....	.. ..	....
38	γ Ceti	..	.. ..	....	.....	36 2 6.92	25.660	+ 40.3	42.4	2 38	.....	.. ..	....
	February 5, L.												
39	α Ceti	9	57 9.37	+ 0.09	+ 3.80	35 8 2.12	27.960	+ 42.1	40.2	2 57	... .	.. ..	....
40	ζ Arietis	9	9 16.49	+ 0.17	+ 3.84	18 10 11.00	27.076	+ 19.6	39.7	3 9	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
20 18 47	. ....	....	43.0
19 46	29.468	44.2	44.8
21 20 12	29.474	44.8	44.8
20 43	29.465	45.2	45.4
21 5	......	....	46.0
21 11	......	...	46.0
21 40	29.472	46.9	46.5
22 37	29.492	47.8	47.2
23 0	29.516	48.0	47.3
30 5 43	29.668	34.9	33.7
6 24	29.710	34.9	33.8
17 31	29.884	34.8	35.7
17 43	......	....	36.1
18 4	29.900	36.5	37.0
31 20 52	29.926	42.8	42.9
21 55	29.916	44.7	44.0
0 4	29.910	47.4	46.2
0 9	29.912	47.4	46.1
4 1 49	28.96 *	65.3	64.1
2 2	......	... .	63.8
2 38	28.99 *	60.0	58.7
5 2 57	29.700	36.1	34.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 5, 8, 11.	Bisections at VI, VII.
3, 25.	Bisections at I, II, III.
4, 26.	Bisections at V, VI, VII.
6, 27.	Bisections at I, VII.
7, 28.	Bisections at II, VI.
31.	Bisections at II, VI, VII.
36.	Bisections at II, III, IV, V, VI.

* Barometer Green No. 1969 used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 7.7	−16 16.9	...	−16 9.2
4	+ 7.7	+16 16.8	...	+16 24.5
6	+ 4.4	− 5.2	+ 0.1	− 0.7
7	+ 4.4	+ 5.2	...	+ 9.6
15	+ 0.1	....	...	+ 0.1
25	+ 7.5	+16 15.1	...	+16 22.6
26	+ 7.4	−16 15.1	...	−16 7.7
27	+ 4.3	− 5.1	0.0	− 0.8
28	+ 4 3	+ 5.1	...	+ 9.4
36	+25 57.2	+15 48.3	...	+41 45.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Moon I, S........	9	24 39.98	+ 0.14	+ **3.86**	23 46 12.15	30.041	+ 26.4	**39.9**	3 24 43.98	+69.25	+15 3 32.7	....
2	η Tauri	9	41 40.21	+ 0.18	+ 3.90	15 2 12.48	28.826	+ 16.1	40.2	3 41	.....	.. ..	....
3	A¹ Tauri	9	58 54.81	+ 0.17	+ 3.92	17 2 11.88	27.305	+ 18.4	39.4	3 58	.....	.. ..	....
	February 6, Br.												
4	o¹ Eridani	9	7 2.99	+ 0.04	+ 5.85	45 56 5.00	27.394	+1 2.1	41.9	4 7	.....	.. ..	....
5	γ Tauri	9	14 11.65	+ 0.12	+ 5.89	23 28 1.80	26.238	+ 26.2	39.1	4 14	.....	.. ..	....
6	Moon I, S........	9	24 58.25	+ 0.12	+ **5.87**	21 42 3.68	29.371	+ 24.0	**40.6**	4 25 4.24	+71.03	+17 8 3.3	....
7	τ Tauri	9	36 20.85	+ 0.14	+ 5.88	16 3 59.72	29.450	+ 17.4	40.1	4 36	.....	.. ..	....
8	i Tauri	9	45 37.46	+ 0.13	+ 5.85	20 10 1.52	28.785	+ 22.2	40.2	4 45	.....	.. ..	....
9	κ Orionis..........	9	43 5.01	+ 0.03	+ 5.88	48 32 4.60	28.992	+1 8.2	40.8	5 43	.....	.. ..	....
10	α Orionis..........	9	49 50.89	+ 0.09	+ 5.92	31 28 1.68	26.716	+ 36.9	41.2	5 49	.....	.. ..	....
11	Pallas	9	2 21.06	— 0.02	+ **5.90**	62 42 8.32	27.811	+1 56.4	**40.6**	6 2 26.94	.....	−23 52 49.0	....
12	Neptune C, C	9	5 11.29	+ 0.14	+ **5.90**	16 31 58.12	27.497	+ 17.9	**40.6**	6 5 17.33	.....	+22 19 8.4	....
13	μ Geminorum	9	17 1.42	+ 0.14	+ 5.93	16 18 3.65	26.235	+ 17.7	41.4	6 17	.....	.. ..	....
14	ν Geminorum	9	23 8.11	+ 0.14	+ 5.90	18 34 2.72	29.085	+ 20.3	39.9	6 23	.....	.. ..	....
15	θ Geminorum	8	46 19.93	+ 0.19	+ 5.90	4 46	......	....	....	6 46	.....	.. ..	....
16	51 H. Cephei	7	55 31.24	+ 3.98	[+ 4.78]	311 40	......	....	....	6 55	.....	.. ..	....
17	λ Ursæ Minoris S. P.	7	17 55.57	−10.85	[+ 7.65]	307 52	......	....	....	19 17	.....	.. ..	....
18	α² Geminorum	9	28 20.82	+ 0.18	[+ 5.94]	6 44	......	....	....	7 28	.....	.. ..	....
	February 8, Br.												
19	κ Orionis..........	9	43 3.72	+ 0.07	+ 7.10	48 32 7.85	28.976	+1 6.3	41.5	5 43	.....	.. ..	....
20	α Orionis..........	9	49 49.59	+ 0.11	+ 7.18	31 28 3.02	26.728	+ 35.9	41.8	5 49	.....	.. ..	....
21	θ Aurigæ..........	7	53 1.20	+ 0.20	+ 7.11	1 40 4.70	25.393	+ 1.8	40.2	5 53	.....	.. ..	....
22	Neptune C, C	9	5 1.00	+ 0.15	+ **7.16**	16 32 2.48	27.186	+ 17.5	**41.2**	6 5 8.31	.....	+22 19 13.7	....
23	η Geminorum	7	8 55.90	+ 0.15	+ 7.22	16 20 4.52	25.575	+ 17.2	40.4	6 9	.....	.. ..	....
24	μ Geminorum	9	17 0.13	+ 0.15	+ 7.19	16 18 3.80	26.262	+ 17.2	41.8	6 17	.....	.. ..	....
25	Moon I, S........	9	32 35.66	+ 0.14	+ **7.17**	21 16 7.20	29.424	+ 22.9	**41.2**	6 32 42.97	+72.76	+17 34 0.0	....
26	θ Geminorum	9	46 18.66	+ 0.19	+ 7.16	4 46 0.62	29.071	+ 5.0	41.3	6 46	.....	.. ..	....
27	51 H. Cephei	7	55 29.31	+ 3.19	[+ 7.19]	311 40	......	....	....	6 55	.....	.. ..	....
28	λ Ursæ Minoris S. P.	7	17 54.09	— 8.54	[+ 7.53]	307 52	......	....	....	19 17	.....	.. ..	....
29	α² Geminorum	9	28 19.59	+ 0.18	+ 7.16	6 44 2.32	30.315	+ 7.0	41.6	7 28	.....	.. ..	....
30	α Canis Minoris....	9	34 8.16	+ 0.10	+ 7.21	33 21 59.52	28.765	+ 38.8	39.6	7 34	.....	.. ..	....
31	β Geminorum	9	39 17.70	+ 0.17	+ 7.18	10 36 6.35	26.844	+ 11.1	42.1	7 39	.....	.. ..	....
32	φ Geminorum	9	47 28.54	+ 0.17	+ 7.19	11 50 3.58	28.191	+ 12.4	41.6	7 47	.....	.. ..	....
	February 8, L.												
33	α Ophiuchi........	9	30 18.54	+ 0.09	+ 7.16	26 12 2.30	29.702	+ 29.6	38.6	17 30	.....	.. ..	....
34	α Lyræ	9	33 31.12	+ 0.22	+ 7.20	0 10 0.70	27.142	+ 0.2	39.6	18 33	.....	.. ..	....
35	β Lyræ	7	46 21.91	+ 0.18	+ 7.19	5 35 57.50	28.228	+ 5.9	40.5	18 46	.....	.. ..	....
36	γ Lyræ	9	55 10.87	+ 0.18	+ 7.20	6 17 59.45	27.375	+ 6.7	39.9	18 55	.....	.. ..	....
37	ζ Aquilæ..........	9	0 49.37	+ 0.10	+ 7.22	25 8	......	....	....	19 0	.....	.. ..	....
	February 9, L.												
38	Sun I, N..........	9	27 37.62	— 0.01	+ **7.40**	53 26 4.00	29.197	+1 20.6	**39.7**	21 27 45.01	+67.50	−14 36 49.3	....
39	Sun II, S..........	9	29 52.62	— 0.01	+ **7.40**	53 58 1.68	30.215	+1 22.3	**39.7**	21 30 0.01	−67.50	−15 9 17.9	....
40	Venus I, C.......	4	37 37.67	+ 0.01	+ **7.48**	49 6 7.82	26.728	+1 8.9	**39.7**	22 37 45.16	+ 0.49	−10 15 31.2	....
41	Venus II	5	37 38.61	+ 0.01	+ **7.48**	... .	......	....	....	22 37 46.10	— 0.45	.. ..	....
42	α Pegasi...........	9	59 47.84	+ 0.10	+ 7.45	24 10 6.40	26.982	+ 26.8	40.2	22 59	.....	.. ..	....
43	α Andromedæ	9	3 14.57	+ 0.16	+ 7.59	10 18 9.55	26.765	+ 10.9	41.8	0 3	.....	.. ..	....
44	γ Pegasi...........	9	8 6.61	+ 0.10	+ 7.64	24 12 2.90	27.821	+ 26.8	39.2	0 8	.....	.. ..	....
45	μ Andromedæ	9	51 14.41	+ 0.21	+ 7.69	0 52 18.50	28.584	+ 1.0	38.7	0 51	.....	.. ..	....
46	β Andromedæ	9	4 10.47	+ 0.20	+ 7.60	3 44 4.92	29.041	+ 4.0	39.2	1 4	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
5 3 25	......	....	34.0
3 59	29.738	35.3	33.9
6 4 7	29.996	36.9	35.4
4 25	......	....	35.1
4 46	30.014	36.0	35.0
5 43	30.020	35.8	35.1
6 23	30.010	35.0	34.9
8 5 43	29.570	41.4	41.4
6 5	......	....	40.8
6 33	29.588	40.2	40.0
7 28	......	....	39.2
7 47	29.612	39.2	39.0
17 30	29.828	34.5	33.2
18 34	......	....	34.1
18 46	29.854	35.2	34.3
18 55	......	....	34.4
9 21 28	29.894	37.6	36.1
22 38	29.890	39.0	37.0
23 0	......	....	37.7
0 8	29.888	41.1	38.3
0 51	......	....	38.8
1 4	29.922	40.6	39.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 6, 25.	Bisections at II, III, IV, V, VI.
12, 21.	Bisections at II, VI, VII.
23, 36.	Bisections at VI, VII.
35, 42, 43, 44.	Z. D. thread D₁ used.
38.	Bisections at I, II, III.
39.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+23 31.2	+16 0.6	...	+39 31.8
6	+21 50.2	+16 12.9	...	+38 3.1
11	+ 5.3	....	...	+ 5.3
12	+ 0.1	....	...	+ 0.1
22	+ 0.1	....	...	+ 0.1
25	+21 50.5	+16 32.0	...	+38 22.5
38	+ 7.2	−16 14.3	...	−16 7.1
39	+ 7.2	+16 14.3	...	+16 21.5
40	+ 4.1	....	0.0	+ 4.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ.PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Orionis..........	9	31 10.99	+ 0.10	+ 7.88	40 6 8.48	28.451	+ 50.9	39.3	5 31	.....	.. ..	....
2	κ Orionis..........	9	43 2.94	+ 0.06	+ 7.88	48 31 59.95	29.139	+1 8.4	40.3	5 43	.....	.. ..	....
3	Pallas...........	7	2 28.36	+ 0.02	+ **7.89**	61 38 5.90	28.268	+1 51.8	**40.0**	6 2 36.27	.....	−22 48 55.6	....
4	Neptune C.......	..	.. ..	....	.....	16 32 4.48	26.968	+ 18.0	**40.0**	6 5	.....	+22 19 16.5	....
5	μ Geminorum	9	16 59.38	+ 0.17	+ 7.91	16 18 4.30	26.179	+ 17.7	40.4	6 17	.....	.. ..	....
6	ν Geminorum	9	23 6.08	+ 0.16	+ 7.88	18 34 2.85	29.082	+ 20.4	40.1	6 23	.....	.. ..	....
7	51 H. Cephei	7	55 27.24	+ 3.92	[+ 8.36]	311 40	......	....	....	6 55	.....	.. ..	....
8	δ Geminorum	..	.. ..	....	.....	16 42 5.95	26.432	+ 18.3	38.7	7 14	.....	.. ..	....
9	λ Ursæ Minoris S. P.	5	17 52.96	−10.43	[+10.93]	307 52	......	....	....	19 17	.....	.. ..	....
10	α^2 Geminorum	9	28 18.87	+ 0.18	+ 7.88	6 44 7.32	30.062	+ 7.2	39.7	7 28	.....	.. ..	....
11	Moon I, N.......	9	37 20.58	+ 0.12	+ **7.91**	22 34 ·4.15	27.222	+ 25.3	**39.3**	7 37 28.61	+72.32	+16 16 58.6	....
12	Moon S.	..	.. ..	....	.....	23 8 7.80	26.697	+ 26.0	**39.3**	.. ..	... .	+15 43 14.9	....
13	φ Geminorum	9	47 27.84	+ 0.16	+ 7.90	11 50 8.20	27.965	+ 12.8	40.2	7 47	.....	.. ..	....
14	ω^1 Cancri..........	9	54 57.84	+ 0.15	+ 7.94	13 12 2.90	27.036	+ 14.3	38.6	7 55	.....	.. ..	....
	February 9, Br.												
15	α Ophiuchi........	9	30 17.13	+ 0.07	+ 8.62	26 12 4.15	29.629	+ 30.1	38.7	17 30	.....	.. ..	....
16	μ Herculis.........	9	42 30.61	+ 0.14	+ 8.65	11 4 7.55	28.618	+ 12.0	41.0	17 42	.....	.. ..	....
17	θ Herculis.........	9	52 46.24	+ 0.19	+ 8.61	1 36 4.00	26.666	+ 1.8	40.4	17 52	.....	.. ..	....
18	ο Herculis.........	9	3 36.33	+ 0.15	+ 8.62	10 6 8.58	27.939	+ 10.9	40.9	18 3	.....	.. ..	....
19	α Lyræ............	9	33 29.72	+ 0.20	+ 8.64	0 10 10.88	26.782	+ 0.2	39.3	18 33	.....	.. ..	....
	February 10, Br.												
20	Sun I, N	9	31 34.47	+ 0.01	+ **8.89**	53 8 10.45	26.435	+1 19.2	**40.0**	21 31 43.37	+67.26	−14 17 35.3	....
21	Sun II, S........	9	33 48.99	+ 0.01	+ **8.89**	53 40 4.95	27.505	+1 20.8	**40.0**	21 33 57.89	−67.26	−14 50 2.1	....
22	Venus I, N	9	42 17.47	+ 0.04	+ **8.97**	48 36 4.90	29.782	+1 7.1	**40.0**	22 42 26.48	+ 0.36	− 9 46 53.1	....
23	Venus S..........	..	.. ..	....	.....	48 36 4.90	30.120	+1 7.1	**40.0**	.. ..	.....	− 9 47 2.8	....
24	β Andromedæ	9	4 8.91	+ 0.19	+ 9.15	3 44 1.72	29.188	+ 3.9	40.0	1 4	.....	.. ..	....
25	β Arietis	9	49 7.93	+ 0.15	+ 9.20	18 30 4.88	29.430	+ 19.9	39.5	1 49	.....	.. ..	....
26	α Arietis	9	1 33.43	+ 0.16	+ 9.21	15 50 4.35	29.154	+ 16.9	40.4	2 1	.....	.. ..	....
27	ε Orionis..........	9	31 9.36	+ 0.06	+ 9.54	40 6 7.00	28.625	+ 50.5	42.3	5 31	.....	.. ..	....
28	κ Orionis..........	9	43 1.32	+ 0.04	+ 9.51	48 32 6.75	28.951	+1 7.7	40.9	5 43	.....	.. ..	....
29	θ Aurigæ..........	9	52 58.82	+ 0.15	+ 9.52	1 38 14.30	29.265	+ 1.8	40.5	5 53	.....	.. ..	....
30	Neptune C, C	9	4 50.18	+ 0.11	+ **9.54**	16 32 8.05	26.781	+ 17.8	**41.4**	6 4 59.83	.....	+22 19 19.6	....
31	μ Geminorum	9	16 57.78	+ 0.11	+ 9.56	16 18 5.10	26.192	+ 17.6	41.5	6 17	.....	.. ..	....
32	θ Geminorum	9	46 16.28	+ 0.14	+ 9.57	4 4	......	....	....	6 46	.....	.. ..	....
33	51 H. Cephei	7	55 27.31	+ 2.48	[+ 9.54]	311 40	......	....	....	6 55	.....	.. ..	....
34	λ Ursæ Minoris S.P.	7	17 52.11	− 6.65	[+ 8.44]	307 52	......	....	....	19 17	.....	.. ..	....
35	α^2 Geminorum	9	28 17.15	+ 0.14	+ 9.64	6 44	......	....	....	7 28	.....	.. ..	....
36	β Cancri...........	9	11 7.57	+ 0.08	+ 9.71	29 22 9.72	27.208	+ 33.8	41.3	8 11	.....	.. ..	....
37	30 Monocerotis	9	20 41.08	+ 0.05	+ 9.78	42 26 4.92	27.690	+ 54.8	41.8	8 20	.....	.. ..	....
38	σ Hydræ..........	9	33 33.61	+ 0.07	+ 9.67	35 10 3.88	27.456	+ 42.2	41.2	8 33	.....	.. ..	....
39	Moon I, S	9	40 48.28	+ 0.09	+ **9.71**	26 12 4.22	28.244	+ 29.5	**41.4**	8 40 58.08	+71.18	+12 38 30.2	....
40	σ^2 Cancri (*mean*)...	9	48 12.18	+ 0.13	+ 9.60	7 54 7.48	28.687	+ 8.4	41.3	8 48	.....	.. ..	....
	February 11, R.												
41	10 Leonis Minoris ..	9	28 7.91	+ 0.22	+11.12	2 1 58.62	27.358	+ 2.1	40.7	9 28	.....	.. ..	....
42	ο Leonis	7	35 49.21	+ 0.14	+11.19	28 29 58.80	29.926	+ 31.5	42.0	9 36	.....	.. ..	....
43	Moon I, S	9	42 2.82	+ 0.13	**+11.19**	30 11 59.42	29.464	+ 33.7	**41.3**	9 42 14.14	+69.65	+ 8 37 56.0	....
44	Moon II.........	9	44 22.13	+ 0.13	**+11.19**	29 56	......	....	....	9 44 33.45	−69.66	.. ..	....
45	Ceres............	9	57 2.53	+ 0.19	**+11.19**	10 16 1.48	26.848	+ 10.5	**41.3**	9 57 13.91	.....	+28 35 31.5	....
46	α Leonis	9	3 3.07	+ 0.14	+11.24	26 24 0.42	28.991	+ 28.8	41.6	10 3	.....	.. ..	....
47	γ^1 Leonis	9	14 28.18	+ 0.16	+11.21	18 29 59.32	30.491	+ 19.5	41.0	10 14	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
9 5 31	29.996	34.4	33.0
6 5	......	....	32.8
6 23	30.000	33.4	32.1
7 14	30.006	32.8	31.2
7 55	29.996	31.9	30.1
17 30	30.060	27.0	28.8
17 43	......	....	29.0
18 4	30.066	29.1	29.8
18 33	30.074	31.3	32.0
10 21 34	30.056	41.0	41.8
22 42	30.036	44.0	44.0
1 4	30.010	45.0	43.8
1 49	......	....	42.8
2 2	29.990	43.9	42.3
5 31	29.960	38.9	37.2
6 5	......	....	37.0
6 17	29.960	38.1	36.9
8 11	29.920	37.3	36.0
8 41	......	....	36.0
8 48	29.914	37.2	36.0
11 9 28	29.464	44.2	45.7
9 36	......	....	46.1
9 42	......	....	46.1
9 53	29.476	44.7	46.0
10 3	......	....	45.8
10 14	29.486	44.8	45.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4.	Bisections at VI, VII.
11, 20.	Bisections at I, II, III.
12, 21.	Bisections at V, VI, VII.
16, 40, 41, 45.	Bisections at II, VI, VII.
22.	Bisections at I, VII.
23.	Bisections at II, VI.
39, 43.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 5.3	....	...	+ 5.3
4	+ 0.1	....	...	+ 0.1
11	+23 11.9	−16 35.4	+ 0.1	+ 6 36.6
12	+23 44.9	+16 35.4	...	+40 20.3
20	+ 7.2	−16 13.4	...	−16 6.2
21	+ 7.2	+16 13.4	...	+16 20.6
22	+ 4.1	− 4.9	+ 0.1	− 0.7
23	+ 4.1	+ 4.9	...	+ 9.0
30	+ 0.1	....	...	+ 0.1
39	+26 42.2	+16 35.6	...	+43 17.8
43	+30 16.6	+16 30.0	...	+46 46.6
45	+ 1.0	....	...	+ 1.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	February 11, L.												
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Lyræ	9	33 26.89	+ 0.24	+11.48	0 9 57.42	27.351	+ 0.2	41.5	18 33	.....	.. ..	....
2	γ Lyræ	9	55 6.56	+ 0.22	+11.54	6 18 1.82	27.378	+ 6.5	41.8	18 55	.....	.. ..	....
3	ζ Aquilæ	9	0 44.98	+ 0.16	+11.61	25 8 1.95	27.046	+ 27.3	41.8	19 0	.....	.. ..	....
4	β Cygni	9	26 36.22	+ 0.21	+11.58	11 6 1.12	27.269	+ 11.4	42.7	19 26	.....	.. ..	....
5	α Aquilæ	9	45 50.87	+ 0.16	+11.60	30 14 2.90	27.674	+ 33.7	43.0	19 46	.....	.. ..	....
	February 12, L.												
6	Sun I, S	9	39 25.58	+ 0.15	**+11.74**	53 0 4.10	29.617	+1 16.0	**42.8**	21 39 37.47	+67.13	−14 10 53.6	....
7	Sun II, N	9	41 39.84	+ 0.15	**+11.75**	52 28 5.05	28.702	+1 14.6	**42.8**	21 41 51.74	−67.14	−13 38 27.4	....
8	Venus I, C	8	51 34.06	+ 0.19	**+11.83**	47 38 12.20	30.408	+1 2.5	**43.1**	22 51 46.08	+ 0.49	− 8 49 10.9	....
9	Venus II	8	51 34.99	+ 0.19	**+11.83**	... .	......	....	....	22 51 47.01	− 0.44	.. ..	....
10	α Pegasi	9	59 43.38	+ 0.23	+11.78	24 10 0.65	27.368	+ 25.6	43.8	22 59	.....	.. ..	....
11	α Andromedæ	9	3 10.03	+ 0.26	+12.00	10 18 7.88	27.036	+ 10.4	44.5	0 3	.....	.. ..	....
12	γ Pegasi	9	8 2.18	+ 0.24	+11.91	24 12 8.52	27.806	+ 25.6	42.8	0 8	.....	.. ..	....
13	β Andromedæ	9	4 5.97	+ 0.27	+11.98	3 44 3.50	29.228	+ 3.8	42.6	1 4	.....	.. ..	....
14	ε Leonis	9	40 10.30	+ 0.24	+12.36	14 38 7.00	27.655	+ 15.4	43.4	9 40	.....	.. ..	....
15	μ Leonis	9	47 4.43	+ 0.25	+12.30	12 24 5.88	26.551	+ 12.9	42.8	9 47	.....	.. ..	....
16	Ceres	9	56 6.74	+ 0.26	**+12.38**	10 8 7.65	29.302	+ 10.6	**42.3**	9 56 19.38	.....	+28 42 16.2	....
17	α Leonis	9	3 1.82	+ 0.20	+12.44	26 24 8.38	28.739	+ 29.2	42.7	10 3	.....	.. ..	....
18	γ¹ Leonis	9	14 26.93	+ 0.22	+12.42	18 30 6.08	30.285	+ 19.7	42.1	10 14	.....	.. ..	....
19	ρ Leonis	9	27 31.65	+ 0.19	+12.43	29 2 6.68	28.915	+ 32.6	41.8	10 27	.....	.. ..	....
20	41 Leonis Minoris	9	37 57.91	+ 0.24	+12.41	15 10 6.90	26.514	+ 16.0	41.9	10 38	.....	.. ..	....
21	Moon II, S	9	43 1.98	+ 0.17	**+12.42**	34 46 4.78	28.384	+ 40.8	**42.3**	10 43 14.57	−68.18	+ 4 4 15.3	....
22	p³ Leonis	9	1 46.74	+ 0.17	+12.42	36 22 8.18	27.204	+ 43.3	41.5	11 1	.....	.. ..	....
23	δ Leonis	9	8 46.27	+ 0.23	+12.42	17 48 8.80	27.325	+ 18.9	41.9	11 8	.....	.. ..	....
	February 12, Br.												
24	α Lyræ	9	33 25.40	+ 0.29	+12.95	0 9 59.38	27.290	+ 0.2	41.6	18 33	.....	.. ..	....
25	β Lyræ	9	46 16.14	+ 0.26	+12.97	5 36 3.32	28.211	+ 5.8	42.5	18 46	.....	.. ..	....
26	γ Lyræ	9	55 5.14	+ 0.25	+12.95	6 18 2.40	27.376	+ 6.5	42.0	18 55	.....	.. ..	....
27	α Aquilæ	9	45 49.59	+ 0.16	+12.90	30 14 5.25	27.584	+ 33.9	42.9	19 46	.....	.. ..	....
	February 13, Br.												
28	Sun I, S	9	43 20.13	+ 0.11	**+13.00**	52 40 8.52	29.593	+1 14.4	**43.0**	21 43 33.24	+66.96	−13 50 55.6	....
29	Sun II, N	9	45 34.06	+ 0.11	**+13.00**	52 8 8.15	28.767	+1 13.0	**43.0**	21 45 47.17	−66.97	−13 18 30.5	....
30	Venus I, C	4	56 11.50	+ 0.15	**+13.02**	47 10 9.98	27.812	+1 0.9	**43.3**	22 56 24.67	+ 0.33	− 8 19 52.6	....
31	Venus II	5	56 12.14	+ 0.15	**+13.02**	... .	......	....	....	22 56 25.31	− 0.31	.. ..	....
32	α Andromedæ	9	3 8.97	+ 0.27	+13.04	10 18 10.05	26.994	+ 10.3	45.2	0 3	.....	.. ..	....
33	β Andromedæ	9	4 4.82	+ 0.30	+13.09	3 44 7.12	29.110	+ 3.8	42.6	1 4	.....	.. ..	....
34	β Arietis	9	49 3.91	+ 0.27	+13.05	18 30 10.55	29.429	+ 18.9	43.9	1 49	.....	.. ..	....
35	α Arietis	9	1 29.41	+ 0.27	+13.08	15 50	......	....	....	2 1	.....	.. ..	....
36	ε Leonis	9	40 9.56	+ 0.19	+13.16	14 38 13.98	27.345	+ 15.4	41.5	9 40	.....	.. ..	....
37	μ Leonis	9	47 3.71	+ 0.20	+13.08	12 24 12.05	26.338	+ 13.0	43.1	9 47	.....	.. ..	....
38	Ceres	9	55 11.28	+ 0.20	**+13.14**	10 2 8.75	28.051	+ 10.5	**41.8**	9 55 24.62	.....	+28 48 50.3	....
39	α Leonis	9	3 1.15	+ 0.15	+13.17	26 24 8.45	28.692	+ 29.2	41.4	10 3	.....	.. ..	....
40	γ¹ Leonis	9	14 26.26	+ 0.17	+13.15	18 32 8.25	25.945	+ 19.8	40.7	10 14	.....	.. ..	....
41	Moon II, S	9	39 21.77	+ 0.11	**+13.16**	39 30 7.45	28.386	+ 48.8	**41.8**	11 39 35.04	−66.90	− 0 39 55.9	....
42	π Virginis	9	55 42.61	+ 0.13	+13.16	31 42 7.55	26.645	+ 36.6	41.5	11 55	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
11 18 33	29.738	43.8	46.8
18 55	....	....	48.1
19 1	29.742	45.9	48.3
19 27	....	....	49.9
19 46	29.764	48.8	50.9
12 21 39	29.770	53.1	55.2
22 52	29.758	56.2	57.8
23 0	....	....	57.4
0 3	....	....	58.0
0 8	29.762	58.7	58.0
1 4	29.770	59.1	57.9
9 40	29.750	45.2	43.7
9 56	....	....	43.4
10 14	29.746	45.1	43.2
10 28	....	....	43.2
10 43	....	....	42.8
11 9	29.746	44.2	42.6
18 33	29.818	42.7	42.3
18 55	....	....	43.9
19 46	29.832	48.9	49.0
13 21 45	29.840	58.8	61.5
23 1	29.834	62.0	64.2
[illegible] 3	....	....	65.1
1 4	29.846	65.9	65.1
[illegible] 49	29.854	64.8	64.8
9 40	29.922	49.0	46.0
10 14	29.928	47.8	45.0
11 39	29.942	45.0	42.7
11 56	....	....	42.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

6, 28. Bisections at I, II, III.
7, 29. Bisections at V, VI, VII.
8, 10. Bisections at VI, VII.
10, 12. Z. D. thread D₁ used.
21, 41. Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 7.1	+16 13.1	...	+16 20.2
7	+ 7.1	−16 13.1	...	−16 6.0
8	+ 4.1	....	0.0	+ 4.1
16	+ 1.0	....	...	+ 1.0
21	+33 58.9	+16 19.8	...	+50 18.7
28	+ 7.1	+16 12.5	...	+16 19.6
29	+ 7.1	−16 12.6	...	−16 5.5
30	+ 4.0	....	0.0	+ 4.0
38	+ 0.9	....	...	+ 0.9
41	+37 24.0	+16 6.3	...	+53 30.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	6 B. Ursæ Minoris. .	8	14 17.61	+ 5.63	[+13.66]	310 38	. . . . . .	. . . .	. . . .	12 14	. . . . .	. . . .	. . . .
2	δ² Corvi	9	24 39.38	+ 0.07	+13.14	54 48 6.30	28.706	+1 23.8	42.3	12 24	. . . . .	. . . .	. . . .
3	31 Comæ Berenices .	9	46 46.55	+ 0.20	+13.12	10 48 7.52	25.994	+ 11.3	42.8	12 46	. . . . .	. . . .	. . . .
4	ε Virginis	9	57 9.05	+ 0.14	+13.18	27 22 2.32	28.005	+ 30.7	40.9	12 57	. . . . .	. . . .	. . . .
5	Mars I, C.	4	4 11.01	+ 0.09	**+13.17**	42 20 7.02	26.410	+ 54.0	**41.8**	13 4 24.27	+ 0.45	− 3 29 4.4	. . . .
6	Mars II	5	4 11.96	+ 0.09	**+13.17**	. . . .	. . . . . .	. . . .	. . . .	13 4 25.22	− 0.50	. . . .	. . . .
7	α Virginis	9	19 53.21	+ 0.06	+13.25	49 30 4.72	26.628	+1 9.4	41.7	13 20	. . . . .	. . . .	. . . .
8	α Ursæ Minoris S. P.	6	23 47.53	− 9.02	[+11.47]	307 40	. . . . . .	. . . .	. . . .	1 23	. . . . .	. . . .	. . . .
	February 17, R.												
9	β Cygni	9	26 32.93	+ 0.21	+15.00	11 6 2.72	27.189	+ 12.2	41.7	19 26	. . . . .	. . . .	. . . .
10	γ Aquilæ	6	41 23.44	+ 0.10	+15.04	28 27 59.40	28.018	+ 33.6	40.9	19 41	. . . . .	. . . .	. . . .
11	α Aquilæ	9	45 47.67	+ 0.09	+14.98	30 14 0.68	27.650	+ 36.1	41.5	19 46	. . . . .	. . . .	. . . .
	February 18, R.												
12	Sun I, N	9	2 46.35	+ 0.05	**+15.14**	50 26 0.85	27.268	+1 13.5	**40.8**	22 3 1.54	+66.52	−11 35 43.0	. . . .
13	Sun II, S.	9	4 59.38	+ 0.05	**+15.14**	50 57 57.50	28.195	+1 14.9	**40.8**	22 5 14.57	−66.51	−12 8 7.7	. . . .
14	Venus I, N	4	19 10.14	+ 0.09	**+15.21**	44 39 56.60	29.562	+ 59.8	**40.8**	23 19 25.44	+ 0.29	− 5 50 30.5	. . . .
15	Venus II, S	5	19 10.70	+ 0.09	**+15.21**	44 39 56.60	29.942	+ 59.8	**40.8**	23 19 26.00	− 0.27	− 5 50 41.4	. . . .
16	α Arietis	9	1 27.13	+ 0.18	+15.37	15 50 3.38	29.180	+ 17.4	40.0	2 1	. . . . .	. . . .	. . . .
17	γ Trianguli	9	11 17.79	+ 0.22	+15.33	5 28 4.72	25.897	+ 5.9	40.7	2 11	. . . . .	. . . .	. . . .
18	α Ceti	9	56 57.51	+ 0.13	+15.42	35 8 1.30	27.992	+ 43.0	40.3	2 57	. . . . .	. . . .	. . . .
	February 18, L.												
19	α Lyræ	9	33 22.62	+ 0.30	+15.87	0 10 2.65	27.302	+ 0.3	44.1	18 33	. . . . .	. . . .	. . . .
20	β Cygni	9	26 31.99	+ 0.16	+16.01	11 6 2.78	27.290	+ 12.8	44.7	19 26	. . . . .	. . . .	. . . .
21	γ Aquilæ	9	41 22.56	+ 0.01	+16.03	28 28 1.50	28.025	+ 35.1	44.9	19 41	. . . . .	. . . .	. . . .
22	α Aquilæ	9	45 46.71	0.00	+16.05	30 14 6.25	27.522	+ 37.7	45.2	19 46	. . . . .	. . . .	. . . .
	February 19, L.												
23	Sun I, N	8	6 37.01	− 0.16	**+16.21**	50 4 5.28	28.847	+1 16.5	**43.6**	22 6 53.06	+66.50	−11 14 32.6	. . . .
24	Sun II, S	9	8 50.01	− 0.16	**+16.22**	50 36 5.88	29.673	+1 18.0	**43.6**	22 9 6.07	−66.51	−11 46 58.5	. . . .
25	α Pegasi	9	59 39.12	+ 0.01	+16.25	24 9 59.42	27.305	+ 28.7	43.2	22 59	. . . . .	. . . .	. . . .
26	Venus I, C.	9	23 43.13	− 0.12	**+16.32**	44 10 4.70	28.702	+1 1.9	**43.1**	23 23 59.33	+ 0.44	− 5 20 13.9	. . . .
27	Venus II	9	23 43.97	− 0.12	**+16.32**	. . . .	. . . . .	. . . .	. . . .	23 24 0.17	− 0.40	. . . .	. . . .
28	α Andromedæ	9	3 5.74	+ 0.11	+16.38	10 18 5.30	27.092	+ 11.6	43.5	0 3	. . . . .	. . . .	. . . .
29	β Andromedæ	9	4 1.49	+ 0.17	+16.46	3 43 59.25	29.400	+ 4.2	42.4	1 4	. . . . .	. . . .	. . . .
30	β Arietis	9	49 0.57	+ 0.04	+16.53	18 30 1.15	29.621	+ 21.3	41.8	1 49	. . . . .	. . . .	. . . .
	February 19, Br.												
31	γ Aquilæ.	8	41 21.05	+ 0.01	+17.56	28 28 5.08	27.861	+ 33.8	42.4	19 41	. . . . .	. . . .	. . . .
32	α Aquilæ.	9	45 45.25	0.00	+17.53	30 14 6.88	27.459	+ 36.4	42.6	19 46	. . . . .	. . . .	. . . .
33	ε Cygni	9	41 58.78	+ 0.15	+17.70	5 14 5.98	29.202	+ 5.7	41.5	20 42	. . . . .	. . . .	. . . .
	February 20, Br.												
34	Sun I, N	9	10 26.28	− 0.04	**+17.84**	49 42 2.18	30.362	+1 12.7	**42.5**	22 10 44.08	+66.31	−10 53 10.0	. . . .
35	Sun II, S	9	12 38.89	− 0.04	**+17.85**	50 14 3.12	31.250	+1 14.1	**42.5**	22 12 56.70	−66.31	−11 25 37.9	. . . .
36	α Andromedæ	9	3 3.99	+ 0.15	+18.08	10 18 5.40	27.122	+ 11.2	43.8	0 3	. . . . .	. . . .	. . . .
37	γ Pegasi	9	7 56.09	+ 0.10	+18.08	24 12 6.70	27.804	+ 27.6	42.2	0 8	. . . . .	. . . .	. . . .

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
13 12 25	29.936	44.1	42.0
13 4	29.944	43.2	41.1
13 33	29.958	43.0	41.1
17 19 27	29.664	14.3	16.0
19 41	. . . . . .	. . . .	17.1
19 46	. . . . . .	. . . .	17.3
19 56	29.660	16.9	. . . .
18 22 3	29.624	24.8	24.8
23 19	29.634	28.1	27.2
2 1	29.695	25.3	22.8
2 11	. . . . . .	. . . .	23.2
2 57	29.736	25.8	23.8
18 33	30.300	5.9	4.8
19 27	30.308	8.0	6.1
19 46	30.310	8.9	7.0
19 22 7	30.298	12.9	11.0
23 0	30.286	14.1	11.4
23 24	30.272	15.1	13.0
0 3	. . . . . .	. . . .	13.3
1 4	. . . . . .	. . . .	13.7
1 49	30.268	17.2	14.0
19 41	. . . . . .	. . . .	22.0
19 46	30.212	21.0	. . . .
20 42	30.222	24.8	24.7
20 22 10	30.200	27.7	27.0
0 3	. . . . . .	. . . .	29.9
0 8	30.172	30.0	29.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7, 17.	Bisections at II, VI, VII.
10, 11, 18, 20, 33.	Bisections at VI, VII.
12, 23, 34.	Bisections at I, II, III.
13, 24, 35.	Bisections at V, VI, VII.
14.	Bisections at I, VII.
15.	Bisections at II, VI.
25, 37.	Z. D. thread D₁ used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 6.8	. . . .	0.0	+ 6.8
12	+ 6.9	−16 12.3	. . .	−16 5.4
13	+ 6.9	+16 12.4	. . .	+16 19.3
14	+ 3.9	− 5.5	+ 0.1	− 1.5
15	+ 3.9	+ 5.5	. . .	+ 9.4
23	+ 6.8	−16 12.9	. . .	−16 6.1
24	+ 6.9	+16 12.9	. . .	+16 19.8
26	+ 3.9	. . . .	0.0	+ 3.9
34	+ 6.8	−16 13.9	. . .	−16 7.1
35	+ 6.9	+16 13.9	. . .	+16 20.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Andromedæ	8	3 59.72	+ 0.18	+18.21	3 44 8.52	29.066	+ 4.1	41.9	1 4	.....	.. ..	....
2	β Arietis	9	48 58.78	+ 0.13	+18.22	18 30 4.75	29.566	+ 20.5	42.9	1 49	.....	.. ..	....
	February 23, Br.												
3	γ Lyræ............	9	54 57.89	+ 0.24	+20.48	6 18 9.95	27.162	+ 6.7	41.6	18 55	.....	.. ..	....
4	ζ Aquilæ..........	9	0 36.27	+ 0.19	+20.57	25 8 6.08	26.934	+ 28.1	41.9	19 0	.....	.. ..	....
5	β Cygni	9	26 27.43	+ 0.22	+20.62	11 6 16.10	26.806	+ 11.7	42.5	19 26	.....	.. ..	....
6	γ Aquilæ..........	9	41 17.98	+ 0.18	+20.54	28 28 9.20	27.800	+ 32.3	42.9	19 41	.....	.. ..	....
7	α Aquilæ..........	9	45 42.08	+ 0.18	+20.60	30 14 12.28	27.361	+ 34.7	43.1	19 46	.....	.. ..	....
	February 24, Br.												
8	Sun I, S	8	25 40.54	+ 0.16	+**20.54**	48 48 7.42	29.123	+1 6.8	**43.1**	22 26 1.24	+65.92	− 9 58 33.4	....
9	Sun II, N.........	9	27 52.37	+ 0.16	+**20.54**	48 16 6.78	28.365	+1 5.6	**43.1**	22 28 13.07	65.91	− 9 26 10.3	....
10	Venus I, C........	3	46 20.92	+ 0.19	+**20.53**	41 36 6.42	29.703	+ 51.8	**43.4**	23 46 41.64	+ 0.41	− 2 46 33.9	....
11	Venus II..........	5	46 21.69	+ 0.19	+**20.53**	... .	......	....	....	23 46 42.41	− 0.36	.. ..	....
12	α Andromedæ	3	3 1.49	+ 0.20	+20.51	10 18 7.88	27.098	+ 10.6	44.6	0 3	.....	.. ..	....
13	μ Andromedæ	5	51 1.40	+ 0.19	+20.52	0 52 12.42	29.049	+ 1.0	43.3	0 51	.....	.. ..	....
14	β Andromedæ	9	3 57.33	+ 0.18	+20.54	3 44 7.78	29.172	+ 3.9	43.3	1 4	.....	.. ..	....
15	η Piscium	9	25 56.92	+ 0.18	+20.53	24 0 6.20	27.900	+ 26.0	43.9	1 26	.....	.. ..	....
16	β Arietis	9	48 56.38	+ 0.18	+20.51	18 30 13.60	29.318	+ 19.6	43.4	1 49	.....	.. ..	....
	February 24, R.												
17	γ Lyræ............	9	54 58.03	+ 0.23	+20.38	6 18 2.92	27.432	+ 6.8	41.8	18 55	.....	.. ..	....
18	ζ Aquilæ..........	9	0 36.47	+ 0.18	+20.40	25 8 4.68	26.922	+ 28.8	40.8	19 0	.....	.. ..	....
19	β Cygni	9	26 27.62	+ 0.22	+20.45	11 5 57.90	27.434	+ 12.0	42.3	19 26	.....	.. ..	....
20	ε Cygni	9	41 56.03	+ 0.24	+20.44	5 16	......	....	....	20 42	.....	.. ..	....
	February 25, R.												
21	Sun I, S	9	29 28.36	+ 0.12	+**20.50**	48 26 3.48	28.940	+1 8.2	**41.6**	22 29 48.98	+65.82	− 9 36 27.1	....
22	Sun II, N.........	9	31 40.00	+ 0.12	+**20.50**	47 54 0.90	28.265	+1 7.0	**41.6**	22 32 0.62	−65.82	− 9 4 4.4	....
23	Venus I, N	4	50 52.15	+ 0.15	+**20.54**	41 6 0.32	27.480	+ 52.6	**41.6**	23 51 12.84	+ 0.32	− 2 15 27.0	....
24	Venus II, S.....	5	50 52.75	+ 0.15	+**20.54**	41 6 0.32	27.898	+ 52.6	**41.6**	23 51 13.44	− 0.28	− 2 15 38.9	....
25	α Andromedæ	9	3 1.38	+ 0.22	+20.60	10 18 1.10	27.288	+ 11.0	43.1	0 3	.....	.. ..	....
26	μ Andromedæ	7	51 1.33	+ 0.25	+20.51	0 51 50.18	29.738	+ 1.0	40.2	0 51	.....	.. ..	....
27	β Andromedæ	9	3 57.23	+ 0.24	+20.57	3 43 58.90	29.419	+ 4.0	41.5	1 4	.....	.. ..	....
28	κ Orionis	9	42 49.80	+ 0.13	+20.70	48 32 1.18	29.170	+1 8.8	41.5	5 43	.....	.. ..	....
29	θ Aurigæ..........	9	52 47.33	+ 0.21	+20.68	1 38	......	....	....	5 53	.....	.. ..	....
30	Neptune C, C	9	3 50.84	+ 0.18	+**20.71**	16 29 59.48	29.802	+ 18.1	**40.9**	6 4 11.73	.....	+22 20 1.3	....
31	Pallas	9	8 4.21	+ 0.11	+**20.71**	55 37 55.55	28.965	+1 28.9	**40.9**	6 8 25.03	.....	−16 48 41.4	....
32	u Geminorum	9	16 46.28	+ 0.18	+20.79	16 18 1.15	26.322	+ 17.8	41.7	6 17	.....	.. ..	....
33	γ Geminorum	9	31 47.27	+ 0.17	+20.77	22 21 56.52	28.102	+ 25.1	39.8	6 32	.....	.. ..	....
34	51 H. Cephei	9	55 12.67	+ 2.00	[+20.37]	311 40	......	....	....	6 55	.....	.. ..	....
35	63 Aurigæ..........	9	4 40.34	+ 0.22	+20.70	359 21 55.12	29.298	− 0.6	40.7	7 5	.....	.. ..	....
36	λ Ursæ Minoris S. P.	5	17 46.64	− 5.00	[+23.12]	307 52	......	....	....	19 18	.....	.. ..	....
37	φ Geminorum	9	47 14.91	+ 0.19	+20.69	11 50	......	....	....	7 47	.....	.. ..	....
	February 25, L.												
38	β Cygni	9	26 27.42	+ 0.22	+20.67	11 6 3.80	27.128	+ 12.0	39.4	19 26	.....	.. ..	....
39	γ Aquilæ..........	9	41 17.90	+ 0.17	+20.68	28 28 3.98	27.824	+ 33.1	38.9	19 41	.....	.. ..	....
40	α Aquilæ..........	9	45 42.09	+ 0.17	+20.64	30 14 1.60	27.562	+ 35.5	38.8	19 46	.....	.. ..	....
41	ε Cygni	9	41 55.86	+ 0.24	+20.63	5 14 0.70	29.320	+ 5.6	38.4	20 42	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
20 1 4	30.170	31.0	30.2
1 49	30.166	32.[illegible]	31.2
23 18 55	29.986	34.5	36.8
19 26	......	....	40.0
19 46	29.990	38.1	40.1
24 22 28	29.960	47.4	48.4
23 46	29.918	48.8	49.6
0 51	......	....	49.2
1 26	29.902	50.0	49.4
1 49	29.904	49.8	48.8
18 55	......	....	29.4
19 1	30.174	29.9	29.8
19 26	30.184	31.2	31.2
25 22 32	30.206	36.8	35.8
23 51	30.200	38.7	37.8
0 3	......	....	38.3
0 51	......	....	38.7
1 4	30.207	41.0	39.1
5 43	30.250	36.1	34.3
5 53	......	....	34.2
6 8	......	....	34.0
6 17	......	....	34.3
6 32	30.242	35.[illegible]	34.2
7 5	......	....	33.2
7 40	30.232	34.0	32.5
19 26	30.268	30.3	32.1
19 46	30.270	32.3	34.0
20 42	30.276	37.8	38.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

8, 21. Bisections at I, II, III.
9, 22. Bisections at V, VI, VII.
10, 25. Bisections at II, VI, VII.
12. Bisections at I, II.
17, 26. Bisections at VI, VII.
23. Bisections at I, VII.
24. Bisections at II, VI.
32. Bisections at I, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
8	+ 6.7	+16 11.5	...	+16 18.2
9	+ 6.7	−16 11.6	...	−16 4.9
10	+ 3.8	....	0.0	+ 3.8
21	+ 6.7	+16 11.3	...	+16 18.0
22	+ 6.6	−16 11.3	...	−16 4.7
23	+ 3.7	− 6.0	+ 0.1	− 2.2
24	+ 3.7	+ 6.0	...	+ 9.7
30	+ 0.1	....	...	+ 0.1
31	+ 4.6	....	...	+ 4.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	February 26, L.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, S.	9	33 15.46	+ 0.17	**+20.73**	48 4 6.78	28.133	+1 6.2	**39.5**	22 33 36.36	+65.72	− 9 14 7.5	. . . .
2	Sun II, N	9	35 26.89	+ 0.17	**+20.73**	47 32 8.32	27.315	+1 5.0	**39.5**	22 35 47.79	−65.71	− 8 41 44.9	. . . .
3	Venus I, C.	9	55 22.56	+ 0.20	**+20.77**	40 34 10.80	29.268	+ 50.5	**39.8**	23 55 43.53	+ 0.45	− 1 44 28.1	. . . .
4	Venus II	9	55 23.40	+ 0.20	**+20.77**	. . . .	. . . . . .	. . . .	. . . .	23 55 44.37	− 0.39	. . . .	. . . .
5	α Andromedæ	6	3 1.16	+ 0.24	+20.79	10 18 11.55	26.798	+ 10.8	41.7	0 3	. . . . .	. . . .	. . . .
6	μ Andromedæ	9	51 1.04	+ 0.26	+20.78	0 51 59.70	29.278	+ 1.0	39.0	0 51	. . . . .	. . . .	. . . .
7	β Andromedæ	9	3 56.98	+ 0.25	+20.79	3 44 3.65	29.178	+ 3.9	39.1	1 4	. . . . .	. . . .	. . . .
8	β Arietis	9	48 55.97	+ 0.23	+20.85	18 30 9.12	29.366	+ 19.7	40.2	1 49	. . . . .	. . . .	. . . .
9	κ Orionis	9	42 49.63	+ 0.20	+20.78	48 32 13.42	28.832	+1 7.0	42.3	5 43	. . . . .	. . . .	. . . .
10	ν Orionis	9	1 42.55	+ 0.22	+20.80	24 4 9.42	27.872	+ 26.5	40.9	6 2	. . . . .	. . . .	. . . .
11	Neptune C, C. . . .	9	3 48.70	+ 0.22	**+20.78**	16 30 7.65	29.442	+ 17.6	**41.6**	6 4 9.70	. . . . .	+22 20 4.6	. . . .
12	Pallas	9	8 41.96	+ 0.20	**+20.77**	55 16 4.22	26.829	+1 25.4	**41.6**	6 9 2.93	. . . . .	−16 25 45.0	. . . .
13	μ Geminorum	9	16 46.23	+ 0.22	+20.78	16 18 3.55	26.254	+ 17.4	41.9	6 17	. . . . .	. . . .	. . . .
14	ν Geminorum	9	22 52.96	+ 0.22	+20.72	18 34 9.60	28.899	+ 20.0	41.4	6 23	. . . . .	. . . .	. . . .
15	51 H. Cephei	7	55 13.49	+ 0.99	[+20.20]	311 40	. . . . . .	. . . .	. . . .	6 55	. . . . .	. . . .	. . . .
16	ζ Geminorum	9	58 2.20	+ 0.22	+20.79	18 8	. . . . . .	. . . .	. . . .	6 58	. . . . .	. . . .	. . . .
17	λ Ursæ Minoris S.P.	5	17 43.64	− 1.95	[+23.99]	307 52	. . . . . .	. . . .	. . . .	19 18	. . . . .	. . . .	. . . .
	March 2, Br.												
18	γ Aquilæ	9	41 17.78	+ 0.13	+20.95	28 28 4.10	27.929	+ 32.8	41.3	19 41	. . . . .	. . . .	. . . .
19	α Aquilæ	9	45 41.88	+ 0.13	+21.00	30 14 4.62	27.594	+ 35.2	42.0	19 46	. . . . .	. . . .	. . . .
20	ε Cygni	9	41 55.63	+ 0.22	+20.97	5 14 3.82	29.293	+ 5.5	42.0	20 42	. . . . .	. . . .	. . . .
21	Mercury C, C	9	11 15.43	+ 0.08	**+21.01**	55 50 2.52	28.254	+1 27.8	**42.0**	21 11 36.52	− 0.07	−17 0 25.9	. . . .
	March 3, Br.												
22	Sun I, N	9	52 2.61	+ 0.13	**+21.06**	45 37 57.50	29.447	+1 0.5	**42.2**	22 52 23.80	+65.33	− 6 48 27.3	. . . .
23	Sun II, S.	9	54 13.27	+ 0.13	**+21.06**	46 9 53.42	30.168	+1 1.7	**42.2**	22 54 34.46	−65.33	− 7 20 45.3	. . . .
24	α Andromedæ	8	3 0.93	+ 0.21	+21.03	10 18 6.45	27.181	+ 10.8	44.4	0 3	. . . . .	. . . .	. . . .
25	Venus I, C	4	17 52.38	+ 0.16	**+21.10**	37 58 5.25	29.659	+ 46.0	**42.5**	0 18 13.64	+ 0.32	+ 0 51 33.5	. . . .
26	Venus II	5	17 52.98	+ 0.16	**+21.10**	. . . .	. . . . . .	. . . .	. . . .	0 18 14.24	− 0.28	. . . .	. . . .
27	β Andromedæ	9	3 56.66	+ 0.23	+21.08	3 44 5.62	29.234	+ 3.9	41.8	1 4	. . . . .	. . . .	. . . .
28	β Arietis	9	48 55.60	+ 0.21	+21.18	18 30 6.72	29.539	+ 19.7	42.2	1 49	. . . . .	. . . .	. . . .
29	α Arietis	9	1 21.10	+ 0.21	+21.17	15 50 8.60	29.159	+ 16.7	42.6	2 1	. . . . .	. . . .	. . . .
30	Moon I	9	10 52.06	+ 0.20	**+21.16**	27 44	. . . . . .	. . . .	. . . .	2 11 13.42	+66.57	. . . .	. . . .
31	α Ceti	9	56 51.42	+ 0.19	+21.24	35 8 2.70	28.085	+ 41.4	42.5	2 57	. . . . .	. . . .	. . . .
	March 11, R.												
32	10 Leonis Minoris . .	9	28 11.02	+ 0.23	+ 7.98	2 1 52.68	27.428	+ 2.1	40.6	9 28	. . . . .	. . . .	. . . .
33	Ceres.	9	34 7.94	+ 0.20	**+ 8.07**	8 31 49.12	26.321	+ 8.8	**41.8**	9 34 16.21	. . . . .	+30 20 1.0	. . . .
34	π Leonis	9	54 59.22	+ 0.11	+ 8.06	30 20 1.50	28.612	+ 34.3	42.5	9 55	. . . . .	. . . .	. . . .
35	α Leonis	9	3 6.32	+ 0.13	+ 8.08	26 23 59.40	29.026	+ 29.1	41.6	10 3	. . . . .	. . . .	. . . .
36	Moon I, N.	9	11 49.03	+ 0.10	**+ 8.07**	31 53 57.82	28.715	+ 36.5	**41.8**	10 11 57.20	+68.32	+ 6 56 16.6	. . . .
37	ρ Leonis	9	27 36.16	+ 0.12	+ 8.14	29 2 1.32	29.126	+ 32.6	41.8	10 27	. . . . .	. . . .	. . . .
38	*l* Leonis	9	44 3.51	+ 0.12	+ 8.09	27 46 22.80	30.214	+ 31.0	42.3	10 44	. . . . .	. . . .	. . . .
	March 11, L.												
39	γ Aquilæ	9	41 30.74	+ 0.14	+ 8.19	28 28 5.38	27.950	+ 32.2	41.9	19 41	. . . . .	. . . .	. . . .
40	α Aquilæ	9	45 54 91	+ 0.14	+ 8.18	30 14 8.70	27.503	+ 34.6	42.3	19 46	. . . . .	. . . .	. . . .
41	ε Cygni	9	42 8.55	+ 0.24	+ 8.22	5 14 7.38	29.282	+ 5.5	41.5	20 42	. . . . .	. . . .	. . . .

Time.	Barom.	Att. Ther.	Ext. Ther
d h m	in.	°	°
26 22 35	30.264	44.0	45.2
23 55	30.230	48.8	49.0
0 51	. . . . . .	. . . .	50.8
1 4	. . . . . .	. . . .	51.0
1 49	30.228	52.1	52.0
5 43	30.218	47.2	46.5
6 9	. . . . . .	. . . .	45.8
6 23	30.204	46.6	45.1
2 19 41	. . . . . .	. . . .	38.6
19 46	30.308	37.9	. . . .
20 42	. . . . . .	. . . .	43.0
21 11	30.330	44.7	44.9
3 22 52	30.328	48.6	48.5
0 18	30.286	51.0	50.1
1 4	30.272	51.8	50.1
1 49	. . . . . .	. . . .	50.6
2 1	30.264	52.1	50.7
2 57	30.254	51.9	50.0
11 9 28	. . . . . .	. . . .	51.3
9 34	30.096	51.5	51.2
9 55	. . . . . .	. . . .	50.4
10 3	. . . . . .	. . . .	50.2
10 12	30.088	51.0	50.0
10 28	. . . . . .	. . . .	49.6
10 44	30.085	50.3	49.0
19 42	30.110	44.4	44.6
20 42	30.128	46.9	46.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 22. Bisections at I, II, III.
2, 23. Bisections at V, VI, VII.
5, 6, 20. Z. D. thread D_1 used.
6, 40. Bisections at II, VI, VII.
10. Bisections at I, II.
20. Bisections at I, VI, VII.
36. Bisections at II, III, IV, V, VI.
41. Bisections at I, II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 6.6	+16 11.3	. . .	+16 17.9
2	+ 6.6	−16 11.3	. . .	−16 4.7
3	+ 3.7	. . . .	0.0	+ 3.7
11	+ 0.1	. . . .	. . .	+ 0.1
12	+ 4.6	. . . .	. . .	+ 4.6
21	+ 7.2	. . . .	− 0.3	+ 6.9
22	+ 6.4	−16 9.0	. . .	−16 2.6
23	+ 6.4	+16 9.0	. . .	+16 15.4
25	+ 3.5	. . . .	+ 0.1	+ 3.6
33	+ 0.8	. . . .	. . .	+ 0.8
36	+31 24.5	−16 17.5	. . .	+15 7.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	March 12, L.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N	9	25 35.00	+ 0.10	+ **8.37**	42 10 5.18	26.262	+ 52.8	**41.1**	23 25 43.47	+64.80	− 3 18 57.7	....
2	Sun II, S	9	27 44.60	+ 0.10	+ **8.37**	42 42 3.70	26.700	+ 53.8	**41.1**	23 27 53.07	−64.80	− 3 51 10.0	....
3	β Andromedæ	9	4 9.18	+ 0.24	+ 8.47	3 44 2.02	29.379	+ 3.9	40.8	1 4	.....	.. ..	....
4	β Arietis	8	49 8.35	+ 0.18	+ 8.36	18 30 5.82	29.457	+ 19.4	40.3	1 49	.....	.. ..	....
5	α Arietis	9	1 33.63	+ 0.19	+ 8.56	15 50 1.98	29.350	+ 16.5	40.3	2 1	.....	.. ..	....
6	α Ceti	9	57 3.99	+ 0.12	+ 8.61	35 8 5.90	27.940	+ 40.7	40.8	2 57	.....	.. ..	....
7	α Lyncis	9	15 2.17	+ 0.23	+ 8.64	4 2 1.70	30.260	+ 4.2	40.8	9 15	.....	.. ..	....
8	10 Leonis Minoris	9	28 10.27	+ 0.24	+ 8.71	2 2 8.52	26.898	+ 2.2	41.6	9 28	.....	.. ..	....
9	Ceres	9	33 32.91	+ 0.20	+ **8.65**	8 30 8.55	29.369	+ 8.9	**41.4**	9 33 41.76	.....	+30 20 14.2	....
10	ε Leonis	9	40 14.07	+ 0.18	+ 8.66	14 38 5.80	27.570	+ 15.4	41.6	9 40	.....	.. ..	....
11	μ Leonis	9	47 8.21	+ 0.19	+ 8.60	12 24 6.25	26.419	+ 13.0	41.7	9 47	.....	.. ..	....
12	*l* Leonis	9	44 2.82	+ 0.12	+ 8.78	27 48 9.90	26.436	+ 31.1	41.8	10 44	.....	.. ..	....
13	p^3 Leonis	9	1 50.69	+ 0.09	+ 8.78	36 22 6.58	27.302	+ 43.5	40.9	11 1	.....	.. ..	....
14	Moon I, S	9	8 47.35	+ 0.08	+ **8.82**	37 4 6.38	26.925	+ 44.6	**41.4**	11 8 56.25	+67.29	+ 1 46 45.7	....
15	Moon N	..	.. ..	....	.....	36 32 4.75	25.685	+ 43.7	**41.4**	.. ..	.....	+ 2 19 33.3	....
16	δ Crateris	9	14 22.90	+ 0.02	+ 8.85	53 6 6.20	26.430	+1 18.5	42.0	11 14	.....	.. ..	....
17	τ Leonis	9	22 50.19	+ 0.09	+ 8.84	35 28 7.58	26.266	+ 42.0	41.2	11 22	.....	.. ..	....
	March 12, Br.												
18	β Cygni	9	26 39.41	+ 0.18	+ 9.11	11 6 5.90	27.238	+ 11.7	42.4	19 26	.....	.. ..	....
19	γ Aquilæ	9	41 29.89	+ 0.10	+ 9.10	28 28 4.05	27.975	+ 32.2	41.3	19 41	.....	.. ..	....
20	α Aquilæ	9	45 54.12	+ 0.09	+ 9.04	30 14 5.40	27.611	+ 34.5	42.1	19 46	.....	.. ..	....
21	ε Cygni	9	42 7.62	+ 0.21	+ 9.20	5 13 59.60	29.541	+ 5.4	40.9	20 42	.....	.. ..	....
22	Mercury C, C	9	3 58.55	− 0.01	+ **9.21**	52 42 5.30	27.425	+1 16.0	**41.9**	22 4 7.75	− 0.04	−13 51 53.4	....
	March 13, Br.												
23	Sun I, S	9	29 14.18	+ 0.04	+ **9.28**	42 18 13.30	27.320	+ 52.3	**42.0**	23 29 23.50	+64.80	− 3 27 34.5	....
24	Sun II, N	9	31 23.77	+ 0.04	+ **9.28**	41 46 8.50	27.043	+ 51.3	**42.0**	23 31 33.09	−64.79	− 2 55 21.1	....
25	Venus I, C	4	3 1.89	+ 0.11	+ **9.35**	32 48 7.92	30.459	+ 36.9	**42.1**	1 3 11.35	+ 0.37	+ 6 1 16.7	....
26	Venus II	5	3 2.57	+ 0.11	+ **9.35**	... .	......	....	....	1 3 12.03	− 0.31	.. ..	....
27	β Arietis	9	49 7.36	+ 0.17	+ 9.35	18 30 5.55	29.578	+ 19.1	43.0	1 49	.....	.. ..	....
28	α Arietis	9	1 32.69	+ 0.18	+ 9.50	15 50 2.85	29.335	+ 16.2	42.7	2 1	.....	.. ..	....
29	α Ceti	9	57 3.14	+ 0.15	+ 9.41	35 8 4.48	28.076	+ 40.0	42.6	2 57	.....	.. ..	....
30	η Tauri	9	41 34.03	+ 0.20	+ 9.41	15 2 1.68	29.314	+ 15.3	40.8	3 41	.....	.. ..	....
31	υ Leonis	9	31 51.33	+ 0.07	+ 9.75	39 8 6.58	27.719	+ 47.7	44.3	11 32	.....	.. ..	....
32	β Leonis	9	43 58.94	+ 0.12	+ 9.81	23 44 9.82	27.965	+ 25.8	41.8	11 44	.....	.. ..	....
33	π Virginis	9	55 46.44	+ 0.10	+ 9.74	31 42 9.65	26.692	+ 36.2	43.2	11 55	.....	.. ..	....
34	Moon II, S	9	6 29.29	+ 0.06	+ **9.78**	41 44 9.30	27.392	+ 52.3	**43.3**	12 6 39.13	−66.48	− 2 53 31.5	....
35	6 B. Ursæ Minoris	7	14 30.03	+ 6.22	[+ 9.77]	310 38	......	....	....	12 14	.....	.. ..	....
36	$δ^2$ Corvi	9	24 43.20	+ 0.02	+ 9.82	54 48 7.65	28.919	+1 23.1	44.1	12 24	.....	.. ..	....
37	Mars I, S	4	51 53.70	+ 0.07	+ **9.80**	40 48 8.20	27.365	+ 50.7	**43.3**	12 52 3.57	+ 0.46	− 1 57 28.0	....
38	Mars II, N	5	51 54.63	+ 0.07	+ **9.80**	40 48 8.20	26.848	+ 50.7	**43.3**	12 52 4.50	− 0.47	− 1 57 13.2	....
39	ε Virginis	9	57 12.96	+ 0.11	+ 9.84	27 22 7.60	27.924	+ 30.4	42.6	12 57	.....	.. ..	....
40	θ Virginis	9	4 47.87	+ 0.06	+ 9.82	43 52 7.18	27.134	+ 56.5	42.0	13 4	.....	.. ..	....
41	α Ursæ Minoris S. P.	7	23 31.07	− 8.94	[+ 8.04]	307 40	......	....	....	1 23	.....	.. ..	....
42	ζ Virginis	9	29 37.13	+ 0.07	+ 9.80	38 56 7.95	29.025	+ 47.6	44.5	13 29	.....	.. ..	....
43	*m* Virginis	9	36 23.48	+ 0.05	+ 9.77	47 .4 10.30	25.812	+1 3.2	43.7	13 36	.....	.. ..	....
	March 13, R.												
44	γ Cygni	9	18 34.36	+ 0.32	− 9.96	358 53 51.05	29.395	− 1.1	41.5	20 18	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
12 23 26	30.104	53.0	51.9
1 4	......	....	53.0
1 49	30.056	55.9	54.5
2 2	......	....	55.2
2 57	30.048	57.4	56.0
9 15	30.028	47.8	46.2
9 47	30.022	47.1	45.9
10 44	30.016	46.2	45.1
11 23	30.014	46.0	45.0
19 27	30.012	42.1	42.2
19 41	......	....	43.2
19 46	30.020	43.5	43.3
20 42	30.040	47.0	47.0
22 4	30.048	53.8	54.3
13 23 31	30.036	58.0	58.2
1 3	30.002	61.1	60.8
1 49	29.990	62.6	61.9
2 2	29.988	62.8	61.9
2 57	29.952	63.5	62.6
3 42	29.950	63.6	62.2
11 32	29.990	49.6	48.0
12 6	29.992	49.0	47.4
12 25	......	....	47.1
13 5	29.992	48.0	46.6
13 36	29.984	47.7	45.9
20 19	30.011	49.0	49.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 14, 23.	Bisections at I, II, III.
2, 15, 24.	Bisections at V, VI, VII.
4.	Bisections at I, II, VII.
4, 27, 28.	Z. D. thread D_1 used.
34.	Bisections at II, III, IV, V, VI.
37.	Bisections at I, VII.
38.	Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 5.9	−16 6.1	...	−16 0.2
2	+ 6.0	+16 6.1	...	+16 12.1
9	+ 0.8	....	...	+ 0.8
14	+35 34.3	+16 10.2	...	+51 44.5
15	+35 7.0	−16 10.2	+ 0.1	+18 56.9
22	+ 6.1	....	− 0.3	+ 5.8
23	+ 6.0	+16 6.7	...	+16 12.7
24	+ 5.9	−16 6.6	...	−16 0.7
25	+ 3.2	....	+ 0.1	+ 3.3
34	+38 53.4	+16 0.1	...	+54 53.5
37	+ 8.4	+ 7.4	...	+ 15.8
38	+ 8.4	− 7.4	0.0	+ 1.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Cygni..........	9	42 6.78	+ 0.28	+10.00	5 13 57.65	29.612	+ 5.4	40.7	20 42	.....	.. ..	....
2	ζ Cygni..........	9	8 37.98	+ 0.26	+10.06	9 2 2.10	26.498	+ 9.2	40.9	21 8	.....	.. ..	....
3	Mercury C, C....	8	9 37.38	+ 0.10	**+10.08**	52 15 58.18	27.611	+1 14.2	**41.3**	22 9 47.56	− 0.04	−13 25 50.4	....
	March 14, R.												
4	Sun I, N	8	32 53.54	+ 0.15	**+10.15**	41 21 55.88	28.383	+ 50.0	**41.6**	23 33 3.84	+64.56	− 2 31 45.5	....
5	Sun II, S........	9	35 2.67	+ 0.15	**+10.15**	41 53 56.90	28.723	+ 51.0	**41.6**	23 35 12.97	−64.57	− 3 3 57.5	....
6	Venus I, N	4	7 31.69	+ 0.19	**+10.23**	32 18 6.32	29.438	+ 34.1	**42.0**	1 7 42.11	+ 0.34	+ 6 31 50.0	....
7	Venus II, S......	5	7 32.32	+ 0.19	**+10.23**	32 18 6.32	29.895	+ 35.8	**42.0**	1 7 42.74	− 0.29	+ 6 31 35.4	....
8	β Arietis	8	49 6.36	+ 0.23	+10.28	18 29 54.98	30.015	+ 19.0	42.3	1 49	.....	.. ..	....
9	γ Andromedæ	9	57 46.15	+ 0.33	+10.25	356 59 57.10	26.645	− 2.9	41.9	1 57	.....	.. ..	....
10	α Arietis	9	1 31.83	+ 0.24	+10.29	15 49 53.62	29.731	+ 16.1	42.2	2 1	.....	.. ..	....
11	π Virginis	9	55 45.48	+ 0.09	+10.71	31 42	......	....	....	11 55	.....	.. ..	....
12	ο Virginis	9	0 7.41	+ 0.09	+10.73	29 34 2.32	29.181	+ 33.0	43.0	12 0	.....	.. ..	....
13	6 B. Ursæ Minoris .	9	14 27.44	+ 7.19	[+11.50]	310 38	......	....	....	12 14	.....	.. ..	....
14	δ² Corvi............	9	24 42.27	0.00	+10.78	54 48 1.55	29.141	+1 22.3	43.4	12 24	.....	.. ..	....
15	31 Comæ Berenices .	9	46 49.57	+ 0.18	+10.68	10 46 1.60	30.376	+ 11.1	43.2	12 47	.....	.. ..	....
16	Mars I, S.........	3	50* 46.76	+ 0.05	**+10.73**	40 40 3.42	30.358	+ 50.0	**42.7**	12 50 57.54	+ 0.50	− 1 50 48.2	....
17	Moon II, S......	9	0 51.88	+ 0.03	**+10.74**	46 10 1.02	27.683	+1 0.6	**42.7**	13 1 2.65	−65.96	− 7 19 40.4	....
18	θ Virginis..........	5	4 47.01	+ 0.04	+10.71	43 51 59.98	27.402	+ 56.0	41.7	13 4	.....	.. ..	....
19	α Ursæ Minoris S. P.	6	23 29.70	−10.39	[+10.35]	307 40	......	....	....	1 23	.....	.. ..	....
20	ζ Virginis..........	9	29 36.21	+ 0.06	+10.75	38 56 0.70	29.260	+ 47.1	43.4	13 29	.....	.. ..	....
21	m Virginis..........	9	36 22.51	+ 0.03	+10.77	47 2 22.75	29.532	+1 2.6	41.4	13 36	.....	.. ..	....
	March 17, Br.												
22	ο Virginis..........	9	0 5.25	+ 0.07	+12.93	29 34 4.08	29.101	+ 33.2	42.8	12 0	.....	.. ..	....
23	6 B. Ursæ Minoris..	7	14 26.87	+ 6.45	[+12.96]	310 38	......	....	....	12 14	.....	.. ..	....
24	δ² Corvi............	9	24 40.16	− 0.01	+12.93	54 48 4.45	28.995	+1 22.7	42.0	12 24	.....	.. ..	....
25	Mars I, N.........	5	47 13.02	+ 0.04	**+12.96**	40 20 4.92	27.798	+ 49.6	**41.7**	12 47 26.02	+ 0.52	− 1 29 37.5	....
26	Mars II, S.......	4	47 14.07	+ 0.04	**+12.96**	40 20 4.92	28.328	+ 49.6	**41.7**	12 47 27.07	− 0.53	− 1 29 52.6	....
27	ε Virginis..........	9	57 9.88	+ 0.08	+13.00	27 22 6.78	27.900	+ 30.3	41.2	12 57	.....	.. ..	....
28	θ Virginis	9	4 44.82	+ 0.03	+12.95	43 52 4.18	27.206	+ 56.2	40.6	13 4	.....	.. ..	....
29	α Ursæ Minoris S. P.	9	23 26.61	− 9.35	[+11.30]	307 40	......	....	....	1 23	.....	.. ..	....
30	α² Libræ............	9	45 19.72	− 0.01	+13.00	54 28 5.12	28.278	+1 21.8	41.8	14 45	.....	.. ..	....
31	β Libræ............	9	11 35.94	+ 0.01	+13.07	47 52 6.95	27.075	+1 4.7	41.1	15 11	.....	.. ..	....
32	α Coronæ Borealis..	9	30 23.10	+ 0.14	+13.01	11 48 3.50	29.407	+ 12.3	42.1	15 30	.....	.. ..	....
33	Moon II, S......	9	40 45.43	− 0.01	**+13.05**	55 52 8.88	30.610	+1 26.6	**41.7**	15 40 58.47	−65.42	−17 3 38.6	....
34	ε Serpentis...	9	45 47.21	+ 0.06	+13.06	34 4 7.35	28.698	+ 39.8	42.1	15 46	.....	.. ..	....
	March 17, R.												
35	γ Cygni...........	8	18 31.36	+ 0.34	+13.06	358 53 43.62	29.658	− 1.0	40.8	20 18	.....	.. ..	....
36	ε Cygni...........	9	42 3.76	+ 0.29	+13.10	5 13 52.28	29.826	+ 5.4	41.0	20 42	.....	.. ..	....
	March 18, R.												
37	Sun I, S	9	47 27.83	+ 0.13	**+13.28**	40 20 6.08	27.053	+ 48.5	**42.3**	23 47 41.24	+64.56	− 1 29 15.6	....
38	Sun II, N........	9	49 36.96	+ 0.13	**+13.28**	39 47 59.92	26.923	+ 47.5	**42.3**	23 49 50.37	−64.57	− 0 57 5.1	....
39	β Andromedæ	9	4 4.30	+ 0.31	+13.26	3 43 53.52	29.780	+ 3.8	42.6	1 4	.....	.. ..	....
40	Venus I, S.......	4	25 35.47	+ 0.16	**+13.37**	30 17 52.58	29.970	+ 33.2	**42.9**	1 25 49.00	+ 0.37	+ 8 31 50.4	....
41	Venus II, N	5	25 36.14	+ 0.16	**+13.37**	30 17 52.58	29.565	+ 33.2	**42.9**	1 25 49.67	− 0.30	+ 8 32 2.0	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
13	20	42	......	....	51.2
	21	9	30.020	53.0	53.9
	22	10	30.024	57.2	58.0
14	23	35	30.010	62.3	63.7
	1	8	29.986	66.3	66.1
	1	49	......	....	66.2
	2	2	29.986	67.7	66.3
	12	0	29.962	53.0	51.6
	12	25	29.960	52.8	51.2
	12	47	......	....	50.9
	13	1	......	....	50.7
	13	5	......	....	50.6
	13	30	......	....	50.1
	13	36	29.946	51.4	50.0
17	12	0	30.040	51.7	50.6
	12	25	......	....	50.2
	12	47	......	....	50.0
	13	5	30.030	50.9	50.0
	14	45	30.016	50.0	49.1
	15	12	......	....	49.1
	15	46	30.028	48.8	47.0
	20	19	30.122	50.7	52.1
	20	42	30.130	52.0	53.3
18	23	50	30.164	63.1	64.0
	1	4	30.143	66.0	66.3
	1	26	......	....	66.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 37.	Bisections at I, II, III.
5, 38.	Bisections at V, VI, VII.
6, 25, 40.	Bisections at I, VII.
7, 8, 26, 41.	Bisections at II, VI.
9.	Bisections at I, II.
16, 18, 35.	Bisections at VI, VII.
17.	Bisections at III, IV, V.
32.	Bisections at II, VI, VII.
33.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 6.0	....	− 0.3	+ 5.7
4	+ 5.9	−16 6.0	...	−16 0.1
5	+ 5.9	+16 6.0	...	+16 11.9
6	+ 3.1	− 7.4	+ 0.2	− 4.1
7	+ 3.1	+ 7.4	...	+ 10.5
16	+ 8.4	+ 7.4	...	+ 15.8
17	+41 37.0	+15 47.7	...	+57 24.7
25	+ 8.5	− 7.6	+ 0.1	+ 1.0
26	+ 8.5	+ 7.6	...	+ 16.1
33	+45 52.4	+15 9.7	...	+61 2.1
37	+ 5.7	+16 5.3	...	+16 11.0
38	+ 5.7	−16 5.2	...	−15 59.5
40	+ 3.0	+ 5.9	...	+ 8.9
41	+ 3.0	− 5.9	+ 0.2	− 2.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ Andromedæ	9	57 42.86	+ 0.36	+13.46	357 0	.....	....	....	1 57	.....	.. ..	....
2	α Arietis...........	9	1 28.64	+ 0.23	+13.45	15 49 51.05	29.874	+ 16.1	43.4	2 1	.....	.. ..	....
	March 24, Br.												
3	ε Geminorum	9	37 50.97	+ 0.12	[+ 8.11]	13 38	......	....	....	6 37	.....	.. ..	....
4	51 H. Cephei	8	55 10.96	+ 5.70	[+ 7.82]	311 40	......	....	....	6 55	.....	.. ..	....
5	λ Ursæ Minoris S. P.	6	18 39.95	−15.88	[+ 8.95]	307 52	......	....	....	19 18	.....	.. ..	....
6	β Geminorum	9	39 16.29	+ 0.14	[+ 8.07]	10 36	......	....	....	7 39	.....	.. ..	....
	March 24, R.												
7	γ Cygni	9	18 37.14	+ 0.33	+ 7.49	358 53 55.62	29.325	− 1.1	42.7	20 18	.....	.. ..	....
8	ε Cygni	9	42 9.59	+ 0.26	+ 7.48	5 13 53.60	29.875	+ 5.5	43.1	20 42	.....	.. ..	....
	March 25, R.												
9	Sun I, N	9	13 3.42	+ 0.03	+ **7.36**	37 2 0.82	27.515	+ 44.0	**42.4**	0 13 10.81	+64.48	+ 1 48 41.1	....
10	Sun II, S........	9	15 12.38	+ 0.03	+ **7.36**	37 34 0.90	27.833	+ 44.9	**42.4**	0 15 19.77	−64.48	+ 1 16 30.7	....
11	Venus I, N	4	57 44.57	+ 0.11	+ **7.30**	26 56 0.80	28.165	+ 29.6	**42.4**	1 57 51.98	+ 0.34	+11 54 36.7	....
12	Venus II, S......	5	57 45.18	+ 0.11	+ **7.30**	26 56 0.80	28.602	+ 29.7	**42.4**	1 57 52.59	− 0.27	+11 54 24.2	....
13	α Arietis	8	1 34.79	+ 0.18	+ 7.30	15 50 2.72	29.408	+ 16.6	41.4	2 1	.....	.. ..	....
14	β Persei	4	1 44.04	+ 0.33	+ 7.26	358 15 59.48	28.620	− 1.7	42.6	3 1	.....	.. ..	....
15	ε Geminorum	9	37 51.80	+ 0.16	[+ 7.22]	13 38	......	....	....	6 37	.....	.. ..	....
16	51 H. Cephei	9	55 9.00	+ 7.15	[+ 7.88]	311 40	......	....	....	6 55	.....	.. ..	....
17	λ Ursæ Minoris S. P.	9	18 46.83	−19.88	[+ 7.27]	307 52	......	....	....	19 18	.....	.. ..	....
18	β Geminorum	9	39 17.09	+ 0.19	[+ 7.20]	10 36	......	....	....	7 39	.....	.. ..	....
	March 25, L.												
19	γ Aquilæ	9	41 32.81	+ 0.04	+ 6.59	28 28 3.65	28.035	+ 32.5	42.7	19 41	.....	.. ..	....
20	α Aquilæ	6	45 57.03	+ 0.04	+ 6.51	30 14 4.10	27.680	+ 34.9	42.7	19 46	.....	.. ..	....
21	θ Aquilæ	9	6 11.99	− 0.02	+ 6.51	39 56 4.38	29.676	+ 50.0	41.5	20 6	.....	.. ..	....
22	ε Cygni	9	42 10.62	+ 0.20	+ 6.53	5 14 6.92	29.348	+ 5.5	41.3	20 42	.....	.. ..	....
	March 26, L.												
23	Sun I, S.........	9	16 42.52	+ 0.04	+ **6.41**	37 10 3.18	28.617	+ 44.1	**42.0**	0 16 48.97	+64.56	+ 1 40 6.8	....
24	Sun II, N	9	18 51.64	+ 0.04	+ **6.41**	36 38 3.22	28.375	+ 43.2	**42.0**	0 18 58.09	−64.56	+ 2 12 14.2	....
25	Venus I, C	9	2 22.76	+ 0.12	+ **6.36**	26 28 3.62	28.468	+ 28.8	**42.0**	2 2 29.24	+ 0.41	+12 22 25.5	....
26	β Persei	9	1 45.01	+ 0.29	+ 6.30	358 16 5.10	28.386	− 1.7	41.7	3 1	.....	.. ..	....
27	η Tauri	9	41 36.91	+ 0.19	+ 6.33	15 2 6.52	29.109	+ 15.5	41.6	3 41	.....	.. ..	....
28	ζ Persei	9	47 55.91	+ 0.23	+ 6.31	7 16 0.50	26.581	+ 7.4	43.1	3 48	.....	.. ..	....
29	ε Persei	9	51 14.52	+ 0.28	+ 6.32	359 7 59.95	26.739	− 0.8	41.5	3 51	.....	.. ..	....
30	51 H. Cephei	5	55 11.44	+ 4.90	[+ 7.24]	311 40	......	....	....	6 55	.....	.. ..	....
31	δ Geminorum	9	14 14.86	+ 0.17	[+ 6.26]	16 40	......	....	....	7 14	.....	.. ..	....
32	λ Ursæ Minoris S. P.	5	18 42.32	−13.36	[+ 6.52]	307 52	......	....	....	19 18	.....	.. ..	....
33	γ Aquilæ	9	41 33.38	+ 0.09	+ 5.99	28 28 5.02	27.988	+ 32.0	42.3	19 41	.....	.. ..	....
34	α Aquilæ	9	45 57.55	+ 0.08	+ 5.98	30 14 6.25	27.600	+ 34.4	42.4	19 46	.....	.. ..	....
35	θ Aquilæ	9	6 12.46	+ 0.03	+ 6.02	39 56 3.68	29.734	+ 49.3	41.9	20 6	.....	.. ..	....
36	ε Cygni	9	42 11.19	+ 0.24	+ 5.95	5 14 3.12	29.466	+ 5.4	40.7	20 42	.....	.. ..	....
	March 27, L.												
37	Sun I, N	9	20 21.32	+ 0.05	+ **5.97**	36 14 4.00	29.382	+ 41.6	**42.1**	0 20 27.34	+64.46	+ 2 35 46.8	....
38	Sun II, S........	9	22 30.25	+ 0.05	+ **5.97**	36 46 5.68	29.433	+ 42.4	**42.1**	0 22 36.27	−64.47	+ 2 3 42.5	....
39	Venus I, C	9	7 1.44	+ 0.13	+ **5.97**	26 0 6.40	29.175	+ 27.5	**42.1**	2 7 7.54	+ 0.41	+12 50 4.1	....
40	β Persei	9	1 45.33	+ 0.28	+ 5.97	358 16 9.62	28.179	− 1.6	42.6	3 1	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
18 2 1	30.140	67.9	67.3
24 20 19	29.828	43.3	42.5
20 42	29.837	44.1	43.2
25 0 13	29.854	49.4	47.8
1 58	......	....	48.0
2 2	29.834	50.7	47.8
3 2	29.837	51.3	47.3
19 42	29.996	36.9	37.5
20 6	......	....	39.1
20 42	30.009	40.0	42.7
26 0 19	30.018	52.8	52.9
2 2	29.988	56.1	55.8
3 [illegible]	......	....	56.8
[illegible] 42	......	....	57.7
3 51	29.970	59.2	58.0
19 42	29.900	42.1	42.8
[illegible] 6	......	....	44.7
20 42	29.916	45.8	47.0
27 0 23	29.904	61.0	62.3
2 7	29.868	66.2	66.1
3 [illegible]	......	....	67.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

9, 23, 37.	Bisections at I, II, III.
10, 24, 38.	Bisections at V, VI, VII.
11.	Bisections at I, VII.
12.	Bisections at II, VI.
13, 25.	Bisections at II, VI, VII.
14, 20.	Bisections at VI, VII.
27, 28, 40.	Z. D. thread D_1 used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
9	+ 5.3	−16 5.2	...	−15 59.9
10	+ 5.4	+16 5.1	...	+16 10.5
11	+ 2.7	− 6.3	+ 0.1	− 3.5
12	+ 2.7	+ 6.3	...	+ 9.0
23	+ 5.3	+16 3.7	...	+16 9.0
24	+ 5.3	−16 3.7	...	−15 58.4
25	+ 2.7	....	+ 0.1	+ 2.8
37	+ 5.2	−16 2.1	...	−15 56.9
38	+ 5.3	+16 2.1	...	+16 7.4
39	+ 2.7	....	+ 0.1	+ 2.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ζ Persei	9	47 56.26	+ 0.24	+ 5.94	7 16 11.72	26.204	+ 7.2	43.3	3 48	.....	.. ..	....
2	ε Persei	9	51 14.83	+ 0.28	+ 5.99	359 8 9.12	26.361	— 0.8	42.2	3 51	.....	.. ..	....
3	α Tauri	9	30 15.64	+ 0.18	+ 5.95	22 32 4.25	27.962	+ 23.3	41.1	4 30	.....	.. ..	....
	March 31, R.												
4	γ Cygni	9	18 38.14	+ 0.28	+ 6.75	358 53 53.38	29.351	— 1.0	40.8	20 18	.....	.. ..	....
5	ε Cygni	9	42 10.53	+ 0.22	+ 6.77	5 13 53.68	29.814	+ 5.3	40.7	20 42	.....	.. ..	....
6	ζ Cygni	7	8 41.72	+ 0.20	+ 6.79	9 1 51.92	26.890	+ 9.2	40.1	21 8	.....	.. ..	....
7	ε Pegasi	5	39 18.58	+ 0.07	+ 6.86	29 24	......	....	....	21 39	.....	.. ..	....
	April 1, R.												
8	Sun I, S	9	38 31.56	+ 0.08	+ **6.88**	34 49 57.98	28.048	+ 39.2	**40.4**	0 38 38.52	+64.52	+ 4 0 31.5	....
9	Sun II, N	9	40 40.61	+ 0.08	+ **6.88**	34 17 59.55	27.890	+ 38.4	**40.4**	0 40 47.57	—64.53	+ 4 32 34.9	....
10	α Arietis	9	1 35.17	+ 0.16	+ 6.91	15 49 54.48	29.708	+ 15 9	40.4	2 1	.....	.. ..	....
11	α Tauri	9	30 14.66	+ 0.11	+ 6.93	22 31 59.48	28.074	+ 23.2	39.3	4 30	.....	.. ..	....
12	β Tauri	9	20 3.17	+ 0.18	+ 7.02	10 19 51.15	27.380	+ 10.2	41.4	5 20	.....	.. ..	....
	April 4, R.												
13	ν Geminorum	9	23 4.51	+ 0.06	+ 8.64	18 33 57.45	29.398	+ 19.9	43.7	6 23	.....	.. ..	....
14	ε Geminorum	9	37 50.14	+ 0.12	+ 8.72	13 37 56.22	27.005	+ 14.4	43.4	6 37	.....	.. ..	....
15	Moon I, N	9	51 8.74	+ 0.04	+ **8.70**	21 19 57.95	27.742	+ 23.2	**43.6**	6 51 17.48	+70.77	+17 30 59.3	....
16	51 H. Cephei	4	55 1.62	+ 9.87	[+ 8.16]	311 40	......	....	....	6 55	.....	.. ..	....
17	λ Ursæ Minoris S. P.	8	19 3.02	—28.03	[+11.43]	307 52	......	....	....	19 18	.....	.. ..	....
18	β Geminorum	9	39 15.40	+ 0.18	+ 8.70	10 35 50.48	27.370	+ 11.2	44.4	7 39	.....	.. ..	....
19	φ Geminorum	9	47 26.24	+ 0.17	+ 8.76	11 49 57.92	28.326	+ 12.5	43.1	7 47	.....	.. ..	....
	April 5, Br.												
20	θ Geminorum	9	46 15.36	+ 0.22	+ 9.42	4 46 1.52	29.045	+ 5.0	44.1	6 46	.....	.. ..	....
21	51 H. Cephei	6	55 3.20	+ 6.86	[+ 9.21]	311 40	......	....	....	6 55	.....	.. ..	....
22	ζ Geminorum	9	58 12.96	+ 0.12	+ 9.46	18 8 3.40	28.552	+ 19.5	44.7	6 58	.....	.. ..	....
23	λ Ursæ Minoris S. P.	6	18 56.83	—19.06	[+ 9.73]	307 52	......	....	....	19 18	.....	.. ..	....
24	β Geminorum	9	39 14.61	+ 0.18	+ 9.47	10 36 6.25	26.882	+ 11.2	46.5	7 39	.....	.. ..	....
25	φ Geminorum	9	47 25.47	+ 0.17	+ 9.52	11 50 2.10	28.209	+ 12.6	44.0	7 47	.....	.. ..	....
26	Moon I, N	9	52 4.27	+ 0.09	+ **9.49**	23 20 0.92	29.887	+ 25.8	**43.9**	7 52 13.85	+70.01	+15 29 52.9	....
27	ζ^1 Cancri	9	6 30.83	+ 0.10	+ 9.53	20 54 2.50	29.175	+ 22.9	43.0	8 6	.....	.. ..	....
28	κ Cancri	9	2 21.78	+ 0.06	+ 9.52	27 47 58.82	26.815	+ 31.6	43.1	9 2	.....	.. ..	....
29	θ Hydræ	9	9 11.23	+ 0.02	+ 9.58	36 8 4.18	26.531	+ 43.7	44.1	9 9	.....	.. ..	....
30	α Lyncis	9	15 0.97	+ 0.23	+ 9.50	4 4 1.25	26.031	+ 4.3	42.9	9 15	.....	.. ..	....
31	Ceres	9	28 10.51	+ 0.18	+ **9.55**	9 26 3.15	29.061	+ 10.0	**43.9**	9 28 20.24	.....	+29 24 29.7	....
32	ο Leonis	9	35 50.68	+ 0 06	+ 9.57	28 30 2.88	29.765	+ 32.6	42.7	9 36	.....	.. ..	....
	April 5, L.												
33	ζ Cygni	9	8 38.81	+ 0.20	+ 9.83	9 2 2.52	26 528	+ 9.5	40.6	21 8	.....	.. ..	....
34	τ Cygni	7	10 45.43	+ 0.27	+ 9.76	1 13 59.48	26.622	+ 1.3	41.5	21 10	.....	.. ..	....
35	ε Pegasi	9	39 15.72	+ 0.07	+ 9.83	29 24 1.02	29.642	+ 33.6	40.7	21 39	.....	.. ..	....
	April 6, L.												
36	Sun I, S	9	56 41.88	+ 0.07	+ **9.99**	32 56 4.15	25.997	+ 37.8	**40.7**	0 56 51.94	+64.62	+ 5 55 25.5	....
37	Sun II, N	9	58 51.11	+ 0.07	+ **9.99**	32 24 2.12	26.090	+ 37.0	**40.7**	0 59 1.17	—64.61	+ 6 27 25.3	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
27 3 48	......	....	67.1
3 51	29.848	68.0	67.1
4 30	29.846	68.2	67.7
31 20 19	29.752	48.2	50.1
20 42	29.760	49.7	52.3
21 9	29.766	51.6	54.5
1 0 41	29.770	64.2	64.6
2 2	29.760	67.3	67.1
4 30	29.750	69.1	68.1
5 20	29.750	68.0	67.7
4 6 23	29.670	43.5	39.0
6 38	......	....	38.3
6 51	......	....	37.9
7 3	29.706	40.2	....
7 39	29.725	38.4	35.9
7 47	29.732	38.1	35.7
5 6 46	30.124	45.2	43.0
6 58	......	....	42.9
7 39	30.128	43.1	41.8
8 7	30.130	42.6	41.1
9 2	......	....	40.2
9 15	30.144	40.6	40.1
9 36	30.144	40.3	39.8
21 11	30.164	39.3	42.0
21 39	30.164	41.9	43.1
6 0 59	30.086	51.7	51.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 2, 34.	Z. D. thread D_1 used.
8, 36.	Bisections at I, II, III.
9, 37.	Bisections at V, VI, VII.
10, 18.	Bisections at II, VI, VII.
12, 22, 28, 34.	Bisections at VI, VII.
15, 26.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
8	+ 5.0	+16 1.7	...	+16 6.7
9	+ 5.0	—16 1.7	...	—15 56.7
15	+21 24.7	—16 10.4	...	+ 5 14.3
26	+23 21.0	—16 10.7	...	+ 7 10.3
31	+ 0.7	....	...	+ 0.7
36	+ 4.8	+15 59.9	...	+16 4.7
37	+ 4.7	—15 59.8	...	—15 55.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Persei	9	1 41.12	+ 0.30	+10. 05	358 16 7.55	28.324	— 1.7	40. 8	3 1	.....	.. ..	....
2	η Tauri	9	41 33.01	+ 0.18	+10. 10	15 2 3.32	29.184	+ 15.5	39. 7	3 41	.....	.. ..	....
3	ζ Persei	9	47 51.89	+ 0.23	+10. 17	7 16 5.50	26.444	+ 7.4	40. 9	3 48	.....	.. ..	....
4	ε Persei	9	51 10.50	+ 0.29	+10. 15	359 8 6.00	26.562	— 0.8	41. 0	3 51	.....	.. ..	....
5	σ Hydræ	9	33 32.46	+ 0.07	+10. 29	35 10 5.80	27.512	+ 41.2	42. 1	8 33	.....	.. ..	....
6	ε Hydræ	9	41 29.64	+ 0.08	+10. 26	32 4 7.85	28.508	+ 36.7	42. 7	8 41	.....	.. ..	....
7	Moon I, N	9	51 29.95	+ 0.10	**+10.26**	26 24 7.95	27.677	+ 29.1	**42.1**	8 51 40.31	+68.93	+12 26 43.7	....
8	κ Cancri	9	2 20.96	+ 0.09	+10. 29	27 48 6.45	26.520	+ 30.9	42. 0	9 2	.....	.. ..	....
9	θ Hydræ	9	9 10.48	+ 0.05	+10. 29	36 8 5.25	26.460	+ 42.7	42. 2	9 9	.....	.. ..	....
10	α Lyncis	9	15 0.21	+ 0.23	+10. 24	4 2 7.08	29.986	+ 4.2	41. 4	9 15	.....	.. ..	....
11	Ceres	9	28 18.06	+ 0.19	**+10.28**	9 30 7.05	29.930	+ 9.9	**42.1**	9 28 28.53	.....	+29 19 59.4	....
12	ε Leonis	9	40 12.20	+ 0.16	+10. 29	14 38 3.32	27.601	+ 15.3	42. 1	9 40	.....	.. ..	....
13	μ Leonis	9	47 6.35	+ 0.17	+10. 23	12 24 6.65	26.328	+ 12.9	42. 0	9 47	.....	.. ..	....
	April 8, Br.												
14	ρ Leonis	9	27 32.28	+ 0.06	+11. 91	29 2 3.65	29.121	+ 32.3	44. 6	10 27	.....	.. ..	....
15	41 Leonis Minoris...	9	37 58.53	+ 0.14	+11. 93	15 10 3.58	26.565	+ 15.8	44. 4	10 38	.....	.. ..	....
16	Moon I, N	9	45 13.31	+ 0.02	**+11.93**	34 36 2.68	27.107	+ 40.1	**44.2**	10 45 25.26	+66.83	+ 4 14 56.4	....
17	p^3 Leonis	9	1 47.53	+ 0.01	+11. 94	36 22 1.35	27.616	+ 42.8	43. 7	11 1	.....	.. ..	....
18	δ Leonis	9	8 47.07	+ 0.13	+11. 93	17 48 2.90	27.489	+ 18.7	44. 1	11 8	.....	.. ..	....
	April 8, L.												
19	ε Cygni	9	42 5.48	+ 0.28	+12. 00	5 14 0.05	29.650	+ 5.4	42. 3	20 42	.....	.. ..	....
20	ζ Cygni	9	8 36.68	+ 0.24	+12. 00	9 2 5.68	26.488	+ 9.2	42. 2	21 8	.....	.. ..	....
21	τ Cygni	9	10 43.26	+ 0.32	+11. 97	1 14 5.12	26.555	+ 1.3	42. 4	21 10	.....	.. ..	....
22	ε Pegasi	9	39 13.58	+ 0.09	+12. 02	29 24 4.58	29.622	+ 32.4	42. 6	21 39	.....	.. ..	....
	April 9, L.												
23	Sun I, N	9	7 37.27	+ 0.12	**+12.22**	31 16 7.08	26.823	+ 34.1	**42.6**	1 7 49.61	+64.77	+ 7 35 4.6	....
24	Sun II, S	9	9 46.80	+ 0.12	**+12.22**	31 48 5.88	26.755	+ 34.8	**42.6**	1 9 59.14	−64.76	+ 7 3 6.7	....
25	Venus I, N	4	8 30.84	+ 0.17	**+12.33**	20 34 5.05	26.988	+ 21.0	**42.6**	3 8 43.34	+ 0.53	+18 17 14.8	....
26	Venus II, S	5	8 31.76	+ 0.17	**+12.33**	20 34 5.05	27.398	+ 21.0	**42.6**	3 8 44.26	− 0.39	+18 17 3.0	....
27	η Tauri	9	41 30.66	+ 0.19	+12. 41	15 2 1.65	29.372	+ 15.0	42. 8	3 41	.....	.. ..	....
28	α Tauri	3	30 9.01	+ 0.15	+12. 43	22 32 6.48	27.910	+ 23.1	41. 6	4 30	.....	.. ..	....
29	ι Aurigæ	4	50 28.49	+ 0.22	+12. 37	5 50	......	....	....	4 50	.....	.. ..	....
30	β Orionis	4	9 40.36	+ 0.06	+12. 43	47 10 5.68	26.330	+ 59.8	43. 3	5 9	.....	.. ..	....
31	β Tauri	9	19 57.60	+ 0.19	+12. 44	10 20 6.95	26.912	+ 10.1	43. 7	5 20	.....	.. ..	....
32	ε Orionis	9	31 5.41	+ 0.08	+12. 47	40 5 58.58	29.106	+ 46.7	42. 9	5 31	.....	.. ..	....
33	τ Leonis	9	22 46.53	+ 0.09	+12. 48	35 27 49.68	26.994	+ 40.2	42. 3	11 22	.....	.. ..	....
34	υ Leonis	9	31 48.57	+ 0.07	+12. 50	39 8 7.02	27.732	+ 46.0	42. 8	11 32	.....	.. ..	....
35	Moon I, N	9	40 0.19	+ 0.07	**+12.50**	39 10 10.32	26.712	+ 46.0	**42.6**	11 40 12.76	+66.11	— 0 19 7.5	....
36	β Leonis	9	43 56.25	+ 0.14	+12. 50	23 44 10.40	27.914	+ 24.9	42. 0	11 44	.....	.. ..	....
37	π Virginis	9	55 43.74	+ 0.10	+12. 50	31 42 7.18	26.762	+ 35.0	42. 2	11 55	.....	.. ..	....
38	ο Virginis	9	0 5.67	+ 0.12	+12. 50	29 34 9.25	28.940	+ 32.2	43. 3	12 0	.....	.. ..	....
39	6 B. Ursæ Minoris ..	4	14 25.05	+ 9.44	[+10. 58]	310 38	......	....	....	12 14	.....	.. ..	....
40	Mars I, S	4	15 2.81	+ 0.08	**+12.50**	37 30 8.68	27.480	+ 43.5	**42.6**	12 15 15.39	+ 0.64	+ 1 20 34.7	....
41	Mars II, N	5	15 4.08	+ 0.08	**+12.50**	37 30 8.68	26.910	+ 43.5	**42.6**	12 15 16.66	— 0.63	+ 1 20 51.0	....
42	δ^2 Corvi	9	24 40.71	— 0.01	+12. 49	54 48 9.28	29.028	+1 20.3	42. 9	12 24	.....	.. ..	....
43	31 Comæ Berenices .	9	46 47.93	+ 0.22	+12. 47	10 46 11.15	29.914	+ 10.9	43. 2	12 47	....	.. ..	....
44	ε Virginis	9	57 10.45	+ 0.12	+12. 57	27 22 9.80	27.794	+ 29.5	41. 7	12 57	.....	.. ..	....
45	α Ursæ Minoris S. P.	5	23 24.00	—13.64	[+13. 50]	307 40	......	....	....	1 23	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
6	3	2	30. 012	55. 4	55. 1
	3	42	....	....	56. 0
	3	51	29. 982	56. 7	56. 0
	8	34	29. 946	50. 9	48. 3
	8	51	....	....	48. 1
	9	9	29. 940	49. 4	48. 0
	9	47	29. 936	48. 9	47. 8
8	10	28	29. 708	49. 2	48. 0
	10	45	29. 712	49. 0	47. 7
	11	9	29. 718	48. 5	47. 2
	20	42	29. 816	47. 0	50. 9
	21	11	....	....	53. 1
	21	39	29. 818	51. 8	55. 2
9	1	10	29. 760	64. 4	65. 1
	3	9	29. 674	68. 0	67. 3
	3	42	....	....	67. 8
	4	30	29. 644	69. 2	68. 1
	4	50	29. 630	69. 3	68. 2
	5	10	....	....	69. 3
	5	20	29. 620	70. 2	69. 8
	5	31	....	....	70. 1
	11	23	29. 712	62. 7	62. 0
	11	56	....	....	60. 7
	12	25	29. 720	60. 7	59. 8
	12	57	29. 716	59. 8	58. 4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2, 27. Z. D. thread D_1 used.
4. Bisections at VI, VII.
7, 16, 35. Bisections at II, III, IV, V, VI.
21. Bisection at VI.
23. Bisections at I, II, III.
24. Bisections at V, VI, VII.
25, 40. Bisections at II, VI.
26, 41. Bisections at I, VII.
28. Bisections at I, II.
31. Bisections at I, II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+26 11.0	—16 9.6	...	+10 1.4
11	+ 0.7	....	...	+ 0.7
16	+33 13.4	—16 2.3	...	+17 11.1
23	+ 4.6	—15 59.0	...	—15 54.4
24	+ 4.6	+15 58.9	...	+16 3.5
25	+ 2.3	— 6.0	+ 0.2	— 3.5
26	+ 2.3	+ 6.0	...	+ 8.3
35	+36 43.1	—15 55.7	...	+20 47.4
40	+ 8.3	+ 8.2	— 0.1	+ 16.4
41	+ 8.3	— 8.2	...	+ 0.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	April 9, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Cygni	9	42 4.68	+ 0.24	+12.87	5 14 5.22	29.485	+ 5.4	42.8	20 42	.....	.. ..	....
2	ζ Cygni	9	8 35.87	+ 0.20	+12.88	9 2 5.50	26.488	+ 9.2	42.0	21 8	.....	.. ..	....
3	β Aquarii..........	9	26 14.80	− 0.04	+12.87	44 50 6.98	27.762	+ 57.2	41.8	21 26	.....	.. ..	....
4	ε Pegasi...........	9	39 12.74	+ 0.06	+12.92	29 23 58.58	29.855	+ 32.5	43.0	21 39	.....	.. ..	....
	April 10, Br.												
5	Sun I, N	9	11 16.40	+ 0.04	**+13.00**	30 52 3.72	30.385	+ 34.2	**42.8**	1 11 29.44	+64.74	+ 7 57 26.5	....
6	Sun II, S........	9	13 25.87	+ 0.04	**+13.00**	31 24 2.82	30.337	+ 34.9	**42.8**	1 13 38.91	−64.73	+ 7 25 27.8	....
7	β Persei...........	9	1 38.14	+ 0.30	+13.00	358 16 4.68	28.458	− 1.6	43.6	3 1	.....	.. ..	....
8	Venus I, C.......	4	13 20.99	+ 0.12	**+13.06**	20 12 5.40	26.549	+ 21.0	**42.8**	3 13 34.17	+ 0.41	+18 39 27.1	....
9	Venus II	5	13 21.69	+ 0.12	**+13.06**	... .	......	....	....	3 13 34.87	− 0.29	.. ..	....
10	α Tauri............	9	30 8.36	+ 0.12	+13.10	22 32 6.75	27.928	+ 23.6	42.6	4 30	.....	.. ..	....
11	ι Aurigæ..........	9	50 27.72	+ 0.24	+13.10	5 50 5.32	28.589	+ 5.9	43.0	4 50	.....	.. ..	....
12	β Orionis..........	2	9 39.78	− 0.02	+13.07	47 10 7.92	26.066	+1 1.3	42.0	5 9	.....	.. ..	....
13	β Tauri	9	19 56.82	+ 0.20	+13.19	10 20 8.70	26.850	+ 10.4	43.9	5 20	.....	.. ..	....
14	δ Orionis..........	6	26 50.34	+ 0.03	+13.13	39 14 5.52	25.548	+ 46.4	42.9	5 27	.....	.. ..	....
15	υ Leonis	9	31 47.77	− 0.02	+13.39	39 8 9.20	27.651	+ 47.2	43.8	11 32	.....	.. ..	....
16	β Leonis	9	43 55.37	+ 0.08	+13.44	23 44 6.28	28.009	+ 25.6	41.4	11 44	.....	.. ..	....
17	π Virginis.........	9	55 42.89	+ 0.03	+13.42	31 42 7.60	26.694	+ 35.9	41.6	11 55	.....	.. ..	....
18	ο Virginis.........	9	0 4.79	+ 0.04	+13.46	29 34 7.20	28.961	+ 33.0	42.7	12 0	.....	.. ..	....
19	Mars I, N	4	13 42.75	0.00	**+13.43**	37 24 5.40	26.745	+ 44.4	**42.3**	12 13 56.18	+ 0.54	+ 1 26 57.8	....
20	Mars II, S.......	5	13 43.82	0.00	**+13.43**	37 24 5.40	27.332	+ 44.4	**42.3**	12 13 57.25	− 0.53	+ 1 26 41.0	....
21	6 B. Ursæ Minoris..	5	14 19.78	+10.99	[+14.07]	310 38	......	....	....	12 14	.....	.. ..	....
22	Moon I, N.......	9	33 58.37	− 0.04	**+13.43**	43 40 6.72	26.423	+ 55.5	**42.3**	12 34 11.76	+65.72	− 4 49 5.4	....
23	ε Virginis.........	9	57 9.61	+ 0.06	+13.47	27 22 7.02	27.871	+ 30.2	41.9	12 57	.....	.. ..	....
24	θ Virginis.........	9	4 44.62	− 0.04	+13.43	43 52 7.02	27.178	+ 56.0	41.4	13 4	.....	.. ..	....
25	α Ursæ Minoris S. P.	7	23 28.41	−16.06	[+11.50]	307 40	......	....	....	1 23	.....	.. ..	....
26	ζ Virginis.........	9	29 33.91	− 0.01	+13.43	38 56 5.35	29.092	+ 47.1	43.0	13 29	.....	.. ..	....
27	m Virginis.........	8	36 20.30	− 0.06	+13.40	47 4 5.85	26.006	+1 2.6	42.4	13 36	.....	.. ..	....
	April 16, Br.												
28	ζ Cygni	9	8 32.69	+ 0.20	+16.26	9 2 1.08	26.623	+ 9.2	41.3	21 8	.....	.. ..	....
29	β Aquarii..........	9	26 11.59	− 0.06	+16.27	44 49 59.42	28.048	+ 57.3	41.0	21 26	.....	.. ..	....
30	ε Pegasi...........	9	39 9.58	+ 0.04	+16.28	29 24 3.80	29.604	+ 32.5	41.9	21 39	.....	.. ..	....
31	α Aquarii..........	9	0 32.31	− 0.02	+16.31	39 38 1.78	27.540	+ 47.7	41.8	22 0	.....	.. ..	....
	April 17, Br.												
32	Sun I, S..........	9	36 59.27	+ 0.07	**+16.30**	28 52 2.38	29.662	+ 31.4	**41.6**	1 37 15.64	+65.08	+ 9 57 50.0	....
33	Sun II, N	9	39 9.43	+ 0.07	**+16.30**	28 20 5.72	29.800	+ 30.7	**41.6**	1 39 25.80	−65.08	+10 29 43.2	....
34	Mercury C, C	9	57 55.38	+ 0.08	**+16.30**	26 42 4.92	31.038	+ 28.6	**41.6**	1 58 11.76	0.00	+12 7 10.9	....
35	Venus I, S........	4	47 41.05	+ 0.15	**+16.31**	17 50 5.40	26.870	+ 18.2	**41.6**	3 47 57.51	+ 0.52	+21 1 19.4	....
36	Venus II, N	5	47 41.93	+ 0.15	**+16.31**	17 50 5.40	26.455	+ 18.2	**41.6**	3 47 58.39	− 0.36	+21 1 31.4	....
37	α Tauri	9	30 5.10	+ 0.12	+16.29	22 32 6.62	27.844	+ 23.5	39.8	4 30	.....	.. ..	....
38	ι Aurigæ..........	9	50 24.46	+ 0.24	+16.26	5 50 5.78	28.620	+ 5.8	41.3	4 50	.....	.. ..	....
39	β Tauri	9	19 53.63	+ 0.20	+16.28	10 20 9.22	26.801	+ 10.3	42.5	5 20	.....	.. ..	....
40	δ Orionis..........	9	26 47.02	+ 0.03	+16.35	39 14	......	....	....	5 27	.....	.. ..	....
41	ε Orionis..........	9	31 1.40	+ 0.03	+16.41	40 6 7.92	28.749	+ 47.5	43.1	5 31	.....	.. ..	....
42	α^1 Herculis.........	9	9 58.86	+ 0.05	+16.39	24 20 4.00	29.394	+ 26.5	39.2	17 10	.....	.. ..	....
43	θ Ophiuchi	9	15 49.33	− 0.24	+16.31	63 44 2.65	26.346	+1 58.1	39.8	17 16	.....	.. ..	....
44	b Ophiuchi	9	20 12.90	− 0.23	+16.31	62 54 6.20	28.488	+1 54.0	40.0	17 20	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
9 20 42	29.866	52.8	52.8
21 9	......	....	54.2
21 26	29.890	54.9	55.0
21 39	29.896	55.1	55.1
10 1 13	29.918	60.8	59.8
3 2	......	....	60.8
3 13	29.884	62.8	61.0
4 30	29.892	63.0	61.2
4 50	......	...	61.2
5 10	29.896	63.0	61.3
5 27	29.904	62.8	61.1
11 32	29.920	53.5	51.8
12 0	......	....	51.1
12 34	29.910	52.0	50.3
13 5	29.920	51.5	50.0
13 36	29.918	51.1	49.7
16 21 9	29.534	47.2	48.0
21 26	......	.. .	48.8
21 39	29.552	48.3	48.9
22 1	29.554	49.1	49.3
17 1 39	29.572	55.5	56.4
1 58	29.574	51.1	56.8
3 52	29.562	59.9	58.7
4 30	29.560	60.0	59.1
5 31	29.560	60.3	59.4
17 10	29.618	44.0	43.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 7, 11, 12. Z. D. thread D, used.
3. Bisections at I, VI, VII.
4, 31. Bisections at VI, VII.
5, 32. Bisections at I, II, III.
6, 33. Bisections at V, VI, VII.
19, 35. Bisections at I, VII.
20, 36. Bisections at II, VI.
22. Bisections at II, III, IV, V, VI.
28. Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 4.5	−15 59.3	...	−15 54.8
6	+ 4.6	+15 59.3	...	+16 3.9
8	+ 2.2	....	+ 0.1	+ 2.3
19	+ 8.3	− 8.4	...	− 0.1
20	+ 8.3	+ 8.4	0.0	+ 16.7
22	+39 48.5	−15 47.6	...	+24 0.9
32	+ 4.2	+15 56.6	...	+16 0.8
33	+ 4.2	−15 56.6	...	−15 52.4
34	+ 3.0	....	0.0	+ 3.0
35	+ 2.0	+ 6.0	...	+ 8.0
36	+ 2.0	− 6.0	0.0	− 4.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Ophinchi........	9	30 11.28	+ 0.03	+16. 37	26 12 3.70	29.716	+ 28.9	38. 4	17 30	.....	.. ..	....
2	Uranus C, C	9	40 7.60	— 0.23	**+16.34**	62 20 6.95	26.624	+1 51.4	**39.7**	17 40 23.71	.....	—23 30 9.7	....
3	μ Sagittarii	9	7 43.57	— 0.22	+16. 31	59 54 6.90	28.586	+1 41.1	39. 2	18 7	.....	.. ..	....
4	η Serpentis.........	9	16 2.86	— 0.09	+16. 33	41 46 4.85	27.166	+ 52.4	39. 4	18 16	.....	.. ..	....
5	Moon II, N......	9	47 30.42	— 0.20	**+16.32**	57 4 6.10	29.567	+1 30.5	**39.7**	18 47 46.54	—64.44	—18 15 12.0	....
6	51 H. Cephei S. P...	8	55 4.85	— 7.58	[+17. 67]	306 4	......	....	....	6 55	.....	.. ..	....
7	ζ Aquilæ..........	9	0 42.12	0.00	+16. 36	25 8 10.00	26.798	+ 27.6	41. 2	19 0	.....	.. ..	....
8	d Sagittarii........	9	11 43.02	— 0.22	+16. 30	57 58 5.18	25.682	+1 33.6	40. 3	19 11	.....	.. ..	....
	April 17, R.												
9	ζ Cygni...........	9	8 32.68	+ 0.26	+16. 24	9 1 48.40	26.928	+ 9.2	37. 5	21 8	.....	.. ..	....
10	ε Pegasi...........	9	39 9.56	+ 0.11	+16. 25	29 23 50.40	29.966	+ 32.6	39. 0	21 39	.....	.. ..	....
	April 18, R.												
11	Sun I, N.........	9	40 41.51	+ 0.13	**+16.32**	27 59 55.12	27.792	+ 30.1	**39.3**	1 40 57.96	+65.12	+10 50 49.6	....
12	Sun II, S.........	9	42 51.74	+ 0.13	**+16.32**	28 31 57.02	27.482	+ 30.8	**39.3**	1 43 8.19	—65.11	+10 18 55.6	....
13	Mercury C, C	9	5 49.31	+ 0.15	**+16.33**	25 49 53.65	27.688	+ 27.4	**39.4**	2 6 5.79	0.00	+13 0 56.6	....
14	Venus I, N......	4	52 39.68	+ 0.21	**+16.36**	17 31 54.95	26.418	+ 17.8	**39.8**	3 52 56.25	+ 0.45	+21 19 41.4	....
15	Venus II, S......	5	52 40.44	+ 0.21	**+16.36**	17 31 54.95	26.952	+ 17.8	**39.8**	3 52 57.01	— 0.31	+21 19 26.3	....
16	α Tauri............	9	30 4.94	+ 0.18	+16. 38	22 31 56.52	28.186	+ 23.2	39. 1	4 30	.....	.. ..	....
17	ι Aurigæ..........	9	50 24.30	+ 0.30	+16. 35	5 49 55.00	28.956	+ 5.8	40. 1	4 50	.....	.. ..	....
18	β Orionis....	9	9 36.29	+ 0.04	+16. 39	47 9 54.60	26.602	+1 0.1	40. 9	5 9	.....	.. ..	....
19	d Sagittarii........	9	11 42.98	— 0.17	+16. 32	57 57 56.72	26.016	+1 32.5	40. 1	19 11	.....	.. ..	....
20	δ Aquilæ..........	9	20 21.54	0.00	+16. 28	35 55 56.02	26.338	+ 42.1	39. 6	19 20	.....	.. ..	....
21	κ Aquilæ..........	9	31 25.48	- 0.08	+16. 36	46 3 58.28	29.385	+1 0.3	38. 8	19 31	.....	.. ..	....
22	Moon II, N......	9	38 15.92	— 0.15	**+16.33**	55 35 54.05	26.678	+1 24.6	**39.6**	19 38 32.10	—63.84	—16 45 31.8	....
23	α Aquilæ..........	9	45 47.89	+ 0.04	+16. 32	30 13 58.00	27.779	+ 33.9	40. 0	19 46	.....	.. ..	....
24	ϑ Aquilæ..........	9	6 2.80	— 0.03	+16. 37	39 55 57.18	29.851	+ 48.6	39. 6	20 6	.....	.. ..	....
	April 19, Br.												
25	γ Sagittæ	9	54 11.54	+ 0.10	+16. 10	19 38 3.48	26.078	+ 20.4	40. 4	19 54	.....	.. ..	....
26	ϑ Aquilæ..........	9	6 3.07	— 0.04	+16. 14	39 56 6.50	29.595	+ 47.9	41. 0	20 6	.....	.. ..	....
27	α² Capricorni	9	12 25.58	— 0.13	+16. 09	51 40 6.00	28.981	+1 12.3	40. 7	20 12	.....	.. ..	....
28	Moon II..........	9	28 7.88	— 0.14	**+16.10**	53 34	......	....	....	20 28 23.84	—63.30	.. ..	....
29	α Delphini	8	34 52.81	+ 0.07	+16. 06	23 16 5.00	29.015	+ 24.6	42. 1	20 35	.....	.. ..	....
30	ε Cygni...........	9	42 1.75	+ 0.23	+16. 12	5 14 4.72	29.425	+ 5.3	40. 7	20 42	.....	.. ..	....
31	ε Pegasi...........	9	39 9.87	+ 0.03	+16. 07	29 24 12.22	29.310	+ 32.0	41. 6	21 39	.....	.. ..	....
	April 20, L.												
32	ε Cygni...........	7	42 2.28	+ 0.26	+15. 59	5 14 3.92	29.428	+ 5.3	39. 7	20 42	.....	.. ..	....
33	ε Pegasi...........	8	39 10.39	+ 0.04	+15. 57	29 24 8.00	29.370	+ 32.5	39. 7	21 39	.....	.. ..	....
34	α Pegasi...........	9	59 40.48	+ 0.08	+15. 51	24 10 6.35	27.179	+ 25.8	38. 3	22 59	.....	.. ..	....
	April 21, L.												
35	Sun I, S..........	9	51 51.63	+ 0.06	**+15.57**	27 30 4.52	26.587	+ 29.6	**39.5**	1 52 7.26	+65.38	+11 21 15.2	....
36	Sun II, N	9	54 2.40	+ 0.06	**+15.57**	26 58 6.78	26.778	+ 28.9	**39.5**	1 54 18.03	—65.39	+11 53 8.0	....
37	Mercury I, C	9	29 35.72	+ 0.09	**+15.57**	23 16 5.55	26.205	+ 24.4	**39.5**	2 29 51.38	+ 0.18	+15 35 30.1	....
38	Venus I, N......	4	7 41.59	+ 0.14	**+15.58**	16 40 6.62	27.960	+ 16.9	**39.5**	4 7 57.31	+ 0.61	+22 10 46.5	....
39	Venus II, S	5	7 42.60	+ 0.14	**—15.58**	16 40 6.62	28.422	+ 16.9	**39.5**	4 7 58.32	— 0.40	+22 10 33.2	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
17 17 40	29.620	43.6	42.0
18 8	......	....	41.0
18 16	29.622	42.6	41.0
19 1	......	....	41.2
19 12	......	....	41.2
19 21	29.636	42.1	....
21 9	29.646	45.2	47.5
21 39	29.650	47.8	49.2
18 1 43	29.606	59.1	59.0
2 6	29.608	59.8	59.7
3 53	29.566	63.7	62.3
4 30	29.550	65.2	64.4
4 50	......	....	64.8
5 10	29.547	66.1	65.0
19 12	29.610	47.8	46.4
19 20	......	....	46.3
19 38	......	....	46.2
19 46	......	....	46.3
20 6	29.626	47.2	47.3
19 19 54	29.494	52.3	51.5
20 12	......	....	51.8
20 42	29.504	53.3	53.9
21 39	29.512	55.8	56.7
20 20 42	29.514	50.8	47.8
21 39	29.516	49.9	48.0
23 0	29.528	50.9	50.1
21 1 52	29.512	55.8	55.0
2 30	29.510	56.8	55.8
4 8	29.486	59.9	58.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 22.	Bisections at II, III, IV, V, VI.
8.	Bisections at I, II.
11, 35.	Bisections at I, II, III.
12, 36.	Bisections at V, VI, VII.
14, 39.	Bisections at I, VII.
15, 38.	Bisections at II, VI.
20, 29, 32.	Bisections at VI, VII.
29.	Z. D. thread D₁ used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 0.4	....	...	+ 0.4
5	+45 27.2	—14 49.0	...	+30 38.2
11	+ 4.1	—15 56.9	...	—15 52.8
12	+ 4.2	+15 57.0	...	+16 1.2
13	+ 2.9	....	0.0	+ 2.9
14	+ 2.0	— 7.6	+ 0.1	— 5.5
15	+ 2.0	+ 7.6	...	+ 9.6
22	+44 37.8	—14 48.2	...	+29 49.6
35	+ 4.0	+15 56.4	...	+16 0.4
36	+ 4.0	—15 56.4	...	—15 52.4
37	+ 2.7	....	+ 0.1	+ 2.8
38	+ 1.9	— 6.7	+ 0.1	— 4.7
39	+ 1.9	+ 6.7	...	+ 8.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Tauri	9	30 5.78	+ 0.10	+15.59	22 32 7.48	27.780	+ 23.4	38.7	4 30	.....	.. ..	....
2	β Orionis	9	9 37.21	− 0.09	+15.57	47 10 [3.02	26.205	+1 0.7	38.9	5 9	.....	.. ..	....
3	β Tauri	9	19 54.26	+ 0.20	+15.60	10 20 6.40	26.825	+ 10.3	40.2	5 20	.....	.. ..	....
4	α Orionis	9	49 40.11	+ 0.02	+15.57	31 28 8.42	26.578	+ 34.5	41.0	5 49	.....	.. ..	....
	April 23, Br.												
5	ε Cygni	9	42 3.92	+ 0.19	+14.11	5 14 4.92	29.398	+ 5.4	40.5	20 42	.....	.. ..	....
6	ζ Cygni	9	8 35.07	+ 0.16	+14.13	9 2 7.68	26.315	+ 9.4	39.8	21 8	.....	.. ..	....
7	β Aquarii	9	26 13.97	− 0.11	+14.13	44 50 4.55	27.735	+ 58.2	39.0	21 26	.....	.. ..	....
8	ε Pegasi	9	39 11.95	0.00	+14.13	29 24 5.82	29.448	+ 33.0	40.5	21 39	.....	.. ..	....
	April 24, Br.												
9	Sun I, N	9	3 6.57	+ 0.04	**+14.02**	25 56 8.70	29.588	+ 27.9	**40.6**	2 3 20.63	+65.48	+12 53 48.3	....
10	Sun II, S	9	5 17.53	+ 0.04	**+14.02**	26 28 8.60	29.292	+ 28.6	**40.6**	2 5 31.59	−65.48	+12 21 55.9	....
11	Mercury C, C	9	53 5.71	+ 0.08	**+14.00**	20 54 11.52	30.016	+ 21.8	**40.6**	2 53 19.79	+ 0.03	+17 55 39.2	....
12	Venus I, C	4	22 52.10	+ 0.12	**+13.97**	15 54 5.52	28.641	+ 16.2	**40.6**	4 23 6.19	+ 0.52	+22 56 29.9	....
13	Venus II	5	22 52.95	+ 0.12	**+13.97**	... .	......	....	....	4 23 7.04	− 0.33	.. ..	....
14	α Tauri	9	30 7.44	+ 0.08	+13.93	22 32 8.70	27.738	+ 23.6	39.0	4 30	.....	.. ..	....
15	α Orionis	9	49 41.72	+ 0.04	+13.90	31 28 7.30	26.650	+ 34.7	42.2	5 49	.....	.. ..	....
16	μ Geminorum	9	16 52.14	+ 0.13	+13.92	16 18 4.48	26.148	+ 16.6	41.4	6 17	.....	.. ..	....
17	ε Geminorum	9	37 44.53	+ 0.15	+13.94	13 38 3.92	26.686	+ 13.8	41.4	6 37	.....	.. ..	....
18	θ Geminorum	9	46 10.45	+ 0.21	+13.96	4 46 5.45	28.836	+ 4.8	41.7	6 46	.....	.. ..	....
	April 26, R.												
19	υ Leonis	9	31 49.10	− 0.02	+11.96	39 8 3.95	27.674	+ 47.0	39.5	11 32	.....	.. ..	....
20	β Leonis	9	43 56.72	+ 0.08	+11.99	23 44 2.82	27.979	+ 25.4	38.4	11 44	.....	.. ..	....
21	Mars I, N	4	57 23.81	0.00	**+11.94**	36 22 2.80	27.332	+ 42.6	**38.6**	11 57 35.75	+ 0.50	+ 2 28 41.7	....
22	Mars II, S	5	57 24.79	0.00	**+11.94**	36 22 2.80	27.922	+ 42.6	**38.6**	11 57 36.73	− 0.48	+ 2 28 24.9	....
23	6 B. Ursæ Minoris	9	14 15.94	+11.46	[+12.30]	310 38	.....	....	....	12 14	.....	.. ..	....
24	ε Virginis	9	57 11.19	+ 0.05	+11.91	27 22 6.70	27.726	+ 30.0	38.8	12 57	.....	.. ..	....
25	θ Virginis	9	4 46.21	− 0.05	+11.88	43 52 7.02	27.068	+ 55.6	37.9	13 4	.....	.. ..	....
26	α Ursæ Minoris S. P.	9	23 31.78	−16.70	[+11.96]	307 40	......	....	....	1 23	.....	.. ..	....
	April 26, L.												
27	β Aquarii	9	26 16.81	− 0.03	+11.30	44 50 9.48	27.531	+ 57.8	38.1	21 26	.....	.. ..	....
28	ε Pegasi	9	39 14.81	+ 0.06	+11.29	29 24 4.95	29.426	+ 32.8	39.1	21 39	.....	.. ..	....
29	α Aquarii	9	0 37.60	0.00	+11.25	39 38 5.45	27.229	+ 47.9	38.4	22 0	.....	.. ..	....
30	α Pegasi	9	59 44.91	+ 0.10	+11.20	24 10 4.05	27.228	+ 25.9	37.9	22 59	.....	.. ..	....
	April 27, L.												
31	Sun I, N	9	14 26.98	+ 0.10	**+11.13**	24 58 9.08	28.063	+ 26.6	**39.4**	2 14 38.21	+65.77	+13 52 31.4	....
32	Sun II, S	9	16 38.52	+ 0.10	**+11.13**	25 30 6.42	27.703	+ 27.2	**39.4**	2 16 49.75	−65.77	+13 20 43.6	....
33	Mercury I, C	9	15 46.14	+ 0.14	**+11.10**	18 54 9.28	27.765	+ 19.5	**39.6**	3 15 57.38	+ 0.21	+19 56 46.9	....
34	α Tauri	9	30 10.25	+ 0.12	+11.06	22 32 8.02	27.755	+ 23.6	38.8	4 30	.....	.. ..	....
35	Venus I, S	4	38 10.57	+ 0.16	**+11.06**	15 14 3.60	28.475	+ 15.5	**40.0**	4 38 21.79	+ 0.60	+23 36 36.5	....
36	Venus II, N	5	38 11.54	+ 0.16	**+11.06**	15 14 3.60	27.985	+ 15.5	**40.0**	4 38 22.76	− 0.37	+23 36 50.7	....
37	β Orionis	9	9 41.60	− 0.02	+11.05	47 10 9.25	25.999	+1 1.1	40.3	5 9	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
21 4 30	......	....	58.8
5 10	......	....	59.4
5 20	29.482	61.3	59.2
5 50	29.488	61.8	59.1
23 20 42	29.836	43.9	44.0
21 9	......	....	45.2
21 26	29.846	45.7	46.1
21 39	29.856	46.4	47.0
24 2 3	29.850	57.7	57.1
2 53	29.840	59.0	58.9
4 30	29.816	61.9	60.3
5 50	......	....	60.8
6 17	......	....	60.3
6 38	29.788	61.5	60.0
6 46	......	....	60.0
26 11 32	29.789	53.0	52.1
11 44	......	....	51.7
11 57	......	....	51.5
12 25	29.793	52.1	....
12 57	......	....	50.8
13 5	29.800	51.6	50.7
21 26	29.904	48.8	50.3
21 39	......	....	51.2
22 1	29.922	51.9	53.1
23 0	29.946	54.6	55.8
27 2 17	29.980	60.6	61.1
3 16	29.980	62.4	62.8
4 30	29.974	64.3	63.9
4 38	......	....	64.1
5 10	......	....	64.4

Micrometer bisections are made at I, II, VI, VII, except as noted below.

9, 31.	Bisections at I, II, III.
10, 32.	Bisections at V, VI, VII.
16, 22, 36.	Bisections at II, VI.
16.	Z. D. thread D_1 used.
21, 35.	Bisections at I, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
9	+ 3.8	−15 56.1	...	−15 52.3
10	+ 3.9	+15 56.2	...	+16 0.1
11	+ 2.6	....	+ 0.2	+ 2.8
12	+ 1.9	....	0.0	+ 1.9
21	+ 7.5	− 8.5	...	− 1.0
22	+ 7.5	+ 8.5	− 0.2	+ 15.8
31	+ 3.7	−15 53.9	...	−15 50.2
32	+ 3.8	+15 53.8	...	+15 57.6
33	+ 2.5	....	+ 0.2	+ 2.7
35	+ 1.8	+ 7.1	...	+ 8.9
36	+ 1.8	− 7.1	0.0	− 5.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Tauri	9	19 58.73	+ 0.20	+11.06	10 20 9.18	26.746	+ 10.4	40.6	5 20	.....	.. ..	....
2	ε Orionis	9	31 6.71	+ 0.02	+10.99	40 6 10.00	28.560	+ 47.7	40.6	5 31	.....	.. ..	....
3	υ Leonis	9	31 50.34	+ 0.04	+10.66	39 8 4.40	27.648	+ 46.6	38.8	11 32	.....	.. ..	....
4	β Leonis	9	43 58.03	+ 0.12	+10.64	23 44 4.75	27.884	+ 25.2	37.6	11 44	.....	.. ..	....
5	Mars I, N	4	56 45.85	+ 0.05	**+10.65**	36 20 2.35	28.830	+ 42.1	**38.5**	11 56 56.55	+ 0.56	+ 2 29 59.9	....
6	Mars II, S	5	56 46.93	+ 0.05	**+10.65**	36 20 2.35	29.338	+ 42.1	**38.5**	11 56 57.63	− 0.52	+ 2 29 45.4	....
7	ο Virginis	9	0 7.48	+ 0.08	+10.66	29 34 7.38	28.800	+ 32.5	39.0	12 0	.....	.. ..	....
8	6 B. Ursæ Minoris	6	14 18.50	+10.16	[+10.55]	310 38	......	....	....	12 14	.....	.. ..	....
9	η Virginis	9	14 48.16	+ 0.04	+10.65	38 58 5.62	28.340	+ 46.3	38.5	12 14	.....	.. ..	....
10	α Ursæ Minoris S.P.	6	23 32.67	−14.75	[+ 9.58]	307 40	......	....	....	1 23	.....	.. ..	....
	April 27, Br.												
11	β Aquarii	9	26 17.88	− 0.11	+10.34	44 49 55.72	28.020	+ 57.8	38.1	21 26	.....	.. ..	...
12	ε Pegasi	9	39 15.91	− 0.01	+10.29	29 24 6.10	29.368	+ 32.7	38.6	21 39	.....	.. ..	....
13	π² Pegasi	8	5 31.06	+ 0.17	+10.29	6 10 5.85	25.525	+ 6.3	38.0	22 5	.....	.. ..	....
14	ζ Pegasi	9	36 27.81	+ 0.02	+10.23	28 30 7.30	29.995	+ 31.4	38.9	22 36	.....	.. ..	...
15	α Pegasi	9	59 45.87	+ 0.05	+10.32	24 10 6.38	27.149	+ 25.8	38.0	22 59	.....	.. ..	....
	April 28, Br.												
16	Sun I, S	9	18 14.92	+ 0.11	**+10.09**	25 10 8.72	29.413	+ 26.6	**39.7**	2 18 25.12	+65.74	+13 39 53.6	...
17	Sun II, N	9	20 26.39	+ 0.11	**+10.09**	24 38 11.75	29.723	+ 25.9	**39.7**	2 20 36.59	−65.73	+14 11 42.3	....
18	Mercury C, C	9	23 3.09	+ 0.15	**+10.04**	18 18 9.90	28.552	+ 18.6	**40.0**	3 23 13.28	+ 0.05	+20 32 25.1	....
19	α Tauri	9	30 11.29	+ 0.14	+ 9.99	22 32 10.02	27.695	+ 23.2	38.7	4 30	.....	.. ..	....
20	Venus I, C	4	43 18.09	+ 0.18	**+ 9.97**	15 2 10.10	27.632	+ 15.0	**40.5**	4 43 28.24	+ 0.64	+23 48 55.2	....
21	Venus II	5	43 19.11	+ 0.18	**+ 9.97**	... .	......	....	....	4 43 29.26	− 0.38	.. ..	....
22	ι Aurigæ	9	50 30.69	+ 0.24	+ 9.92	5 50 11.90	28.345	+ 5.8	41.1	4 50	.....	.. ..	....
23	β Orionis	9	9 42.64	+ 0.03	+ 9.95	47 10 9.98	25.980	+1 0.0	39.5	5 9	.....	.. ..	....
24	β Tauri	9	19 59.83	+ 0.21	+ 9.94	10 20 11.45	26.690	+ 10.2	41.3	5 20	.....	.. ..	....
25	ε Orionis	9	31 7.67	+ 0.06	+ 9.98	40 6 9.92	28.650	+ 46.9	42.4	5 31	.....	.. ..	....
26	υ Leonis	9	31 51.38	− 0.03	+ 9.68	39 8 9.70	27.559	+ 46.3	41.2	11 32	.....	.. ..	....
27	β Leonis	9	43 59.02	+ 0.05	+ 9.71	23 44 9.88	27.790	+ 25.1	40.0	11 44	.....	.. ..	....
28	Mars I, N	4	56 10.74	− 0.01	**+ 9.65**	36 18 12.10	30.598	+ 41.9	**41.1**	11 56 20.38	+ 0.56	+ 2 31 2.6	....
29	Mars II, S	5	56 11.82	− 0.01	**+ 9.65**	36 18 12.10	31.205	+ 41.9	**41.1**	11 56 21.46	− 0.52	+ 2 30 45.3	....
30	ο Virginis	9	0 8.49	+ 0.02	+ 9.70	29 34 12.32	28.715	+ 32.3	41.3	12 0	.....	.. ..	....
31	6 B. Ursæ Minoris	6	14 18.17	+ 9.58	[+10.97]	310 38	......	....	....	12 14	.....	.. ..	....
32	η Virginis	9	14 49.21	− 0.02	+ 9.65	38 58	......	....	....	12 14	.....	.. ..	....
33	31 Comæ Berenices	9	46 50.90	+ 0.13	+ 9.56	10 46 12.00	29.715	+ 10.9	41.8	12 47	.....	.. ..	....
34	α Ursæ Minoris S.P.	7	23 33.54	−13.42	[+ 7.88]	307 40	......	....	....	1 23	.....	.. ..	....
	April 28, L.												
35	β Aquarii	9	26 19.21	0.00	+ 8.92	44 50 8.60	27.588	+ 56.8	38.1	21 26	.....	.. ..	....
36	ε Pegasi	9	39 17.18	+ 0.09	+ 8.94	29 24 8.48	29.329	+ 32.2	39.5	21 39	.....	.. ..	....
37	α Aquarii	9	0 39.96	+ 0.03	+ 8.92	39 38 7.20	27.214	+ 47.0	39.0	22 0	.....	.. ..	....
38	α Pegasi	9	59 47.30	+ 0.12	+ 8.84	24 10 8.68	27.078	+ 25.4	37.8	22 59	.....	.. ..	....
	April 29, L.												
39	Sun I, S	9	22 3.57	+ 0.14	**+ 8.70**	24 52 12.25	27.408	+ 25.6	**39.4**	2 22 12.41	+65.90	+13 58 47.9	....
40	Sun II, N	9	24 15.37	+ 0.14	**+ 8.70**	24 20 10.48	27.883	+ 25.0	**39.4**	2 24 24.21	−65.90	+14 30 36.6	....
41	Mercury I, C	9	30 9.83	+ 0.19	**+ 8.65**	17 46 9.85	26.218	+ 17.6	**39.6**	3 30 18.67	+ 0.22	+21 5 32.2	....
42	α Tauri	9	30 12.69	+ 0.16	+ 8.56	22 32 10.90	27.664	+ 22.8	38.3	4 30	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
27 5 20	......	....	64.4
5 31	29.968	65.1	64.7
11 32	30.006	58.1	60.0
11 57	......	....	60.2
12 15	30.014	59.1	60.3
21 26	30.092	52.9	53.7
21 39	......	....	54.6
22 6	......	....	57.0
22 36	30.120	56.5	58.4
23 0	30.128	58.0	60.3
28 2 18	30.120	68.8	69.1
3 23	30.100	70.8	71.8
4 30	30.078	72.9	73.0
4 43	......	....	74.0
5 10	......	....	74.8
5 31	30.054	74.8	75.0
11 32	30.028	65.1	63.0
12 0	......	....	63.0
12 47	30.022	63.8	62.9
21 26	30.016	57.8	61.4
21 39	......	....	62.4
22 1	30.020	60.2	64.2
23 0	30.026	63.7	67.1
29 2 22	30.004	76.8	79.2
3 30	29.992	79.0	80.2
4 30	29.970	81.0	81.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 29. Bisections at II, VI.
6, 28. Bisections at I, VII.
11, 13. Bisections at VI, VII.
13, 14, 22. Z. D. thread D_1 used.
16, 39. Bisections at I, II, III.
17, 40. Bisections at V, VI, VII.
24. Bisections at I, II.
30. Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 7.5	− 7.3	...	+ 0.2
6	+ 7.5	+ 7.3	− 0.1	+ 14.7
16	+ 3.7	+15 54.3	...	+15 58.0
17	+ 3.6	−15 54.3	...	−15 50.7
18	+ 2.5	....	+ 0.3	+ 2.8
20	+ 1.8	....	0.0	+ 1.8
28	+ 7.4	− 8.7	...	− 1.3
29	+ 7.4	+ 8.7	− 0.1	+ 16.0
39	+ 3.7	+15 54.3	...	+15 58.0
40	+ 3.6	−15 54.3	...	−15 50.7
41	+ 2.4	....	+ 0.3	+ 2.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Orionis	9	9 43.98	+ 0.06	+ 8.57	47 10 11.48	25.986	+ 58.9	40.2	5 9	.....	.. ..	....
2	β Tauri	9	20 1.11	+ 0.24	+ 8.62	10 20 7.58	26.809	+ 10.0	40.3	5 20	.....	.. ..	....
3	ε Orionis	9	31 9.08	+ 0.09	+ 8.53	40 6 1.08	28.948	+ 46.0	40.8	5 31	.....	.. ..	....
4	υ Leonis	9	31 52.80	+ 0.02	+ 8.20	39 8 10.98	27.521	+ 45.2	40.4	11 32	.....	.. ..	....
5	β Leonis	9	44 0.44	+ 0.11	+ 8.22	23 44 11.18	27.714	+ 24.5	38.7	11 44	.....	.. ..	....
6	Mars I, N.	4	55 38.87	+ 0.04	+ **8.21**	36 18 7.52	29.330	+ 40.9	**39.9**	11 55 47.12	+ 0.53	+ 2 31 43.1	....
7	Mars II, S.	5	55 39.90	+ 0.04	+ **8.21**	36 18 7.52	29.835	+ 40.9	**39.9**	11 55 48.15	− 0.50	+ 2 31 28.7	....
8	o Virginis	9	0 9.91	+ 0.08	+ 8.22	29 34 11.48	28.722	+ 31.6	40.2	12 0	.....	.. ..	....
9	6 B. Ursæ Minoris	6	14 18.17	+11.44	[+ 8.62]	310 38	......	....	....	12 14	.....	.. ..	....
10	η Virginis	9	14 50.61	+ 0.02	+ 8.21	38 58 11.05	28.250	+ 45.1	40.2	12 14	.....	.. ..	....
11	α Ursæ Minoris S. P.	5	23 37.50	−16.67	[+ 7.67]	307 40	......	....	....	1 23	.....	.. ..	....
12	ε Pegasi	9	39 18.61	+ 0.08	+ 7.55	29 24 10.48	29.239	+ 31.9	38.8	21 39	.....	.. ..	....
13	α Aquarii	9	0 41.38	+ 0.01	+ 7.54	39 38 9.22	27.129	+ 46.7	38.5	22 0	.....	.. ..	....
14	ζ Pegasi	9	36 30.52	+ 0.09	+ 7.50	28 32 10.95	25.714	+ 30.4	37.5	22 36	.....	.. ..	....
15	α Pegasi	9	59 48.65	+ 0.12	+ 7.52	24 10 11.28	26.965	+ 25.0	36.9	22 59	.....	.. ..	....
	April 30, L.												
16	Sun I, N.	9	25 52.82	+ 0.13	+ **7.32**	24 2 9.88	26.538	+ 24.3	**40.3**	2 26 0.27	+65.95	+14 49 17.7	....
17	Sun II, S.	9	28 4.71	+ 0.14	+ **7.31**	24 34 11.20	25.985	+ 24.9	**40.3**	2 28 12.16	−65.94	+14 17 30.5	....
18	Mercury I, C.	9	37 5.57	+ 0.20	+ **7.26**	17 14 10.80	29.144	+ 16.8	**41.0**	3 37 13.03	+ 0.23	+21 36 10.1	....
19	α Tauri	9	30 13.99	+ 0.18	+ 7.24	22 32 9.95	27.788	+ 22.4	40.4	4 30	.....	.. ..	....
20	Venus I, S.	9	53 35.53	+ 0.24	+ **7.19**	14 40 11.80	27.228	+ 14.1	**41.7**	4 53 42.96	+ 0.64	+24 11 7.0	....
21	Venus II, N	9	53 36.55	+ 0.24	+ **7.19**	14 40 11.80	26.760	+ 14.1	**41.7**	4 53 43.98	− 0.38	+24 11 20.5	....
22	β Orionis	9	9 45.39	+ 0.08	+ 7.13	47 10 10.78	26.115	+ 57.9	42.3	5 9	.....	.. ..	....
23	β Tauri	9	20 2.55	+ 0.27	+ 7.14	10 20 10.98	26.760	+ 9.8	42.0	5 20	.....	.. ..	....
24	Moon I.	8	28 31.66	+ 0.22	+ **7.16**	20 46	......	....	....	5 28 39.04	+71.72	.. ..	....
25	ε Orionis	9	31 10.37	+ 0.12	+ 7.20	40 6 11.25	28.668	+ 45.3	42.8	5 31	.....	.. ..	....
	April 30, Br.												
26	ε Pegasi	8	39 20.00	+ 0.05	+ 6.22	29 24 14.92	29.101	+ 33.3	40.8	21 39	.....	.. ..	....
27	ζ Pegasi	3	36 31.83	+ 0.06	+ 6.25	28 30	......	....	....	22 36	.....	.. ..	....
28	α Pegasi	9	59 50.09	+ 0.10	+ 6.12	24 10 7.00	27.218	+ 26.5	41.4	22 59	.....	.. ..	....
	May 1, Br.												
29	Sun I, N.	9	29 42.62	+ 0.08	+ **5.99**	23 42 5.62	29.842	+ 25.7	**40.4**	2 29 48.69	+65.98	+15 7 46.5	....
30	Sun II, S.	9	31 54.59	+ 0.08	+ **5.98**	24 14 6.20	29.442	+ 26.4	**40.4**	2 32 0.65	−65.98	+14 35 55.6	....
31	α Tauri	9	30 15.43	+ 0.10	+ 5.88	22 32 7.38	27.760	+ 24.2	38.9	4 30	.....	.. ..	....
32	Venus I, N.	5	58 44.99	+ 0.20	+ **5.86**	14 28 3.05	30.750	+ 15.1	**40.0**	4 58 51.05	+ 0.60	+24 21 32.7	....
33	Venus II, S.	4	58 45.94	+ 0.20	+ **5.86**	14 28 3.05	31.315	+ 15.1	**40.0**	4 58 52.00	− 0.35	+24 21 16.8	....
34	β Orionis	9	9 46.88	− 0.15	+ 5.86	47 10 8.28	25.951	+1 2.7	40.0	5 9	.....	.. ..	....
35	α Orionis	9	49 49.75	+ 0.01	+ 5.82	31 28 8.42	26.514	+ 35.6	40.5	5 49	.....	.. ..	....
36	μ Geminorum	9	17 0.11	+ 0.18	+ 5.81	16 18 6.45	26.089	+ 17.0	39.7	6 17	.....	.. ..	....
37	Moon I.	9	31 45.33	+ 0.12	+ **5.78**	21 10	......	....	....	6 31 51.23	+71.51	.. ..	....
38	ε Geminorum	9	37 52.57	+ 0.21	+ 5.74	13 38 6.95	26.535	+ 14.1	40.3	6 37	.....	.. ..	....
	May 1, R.												
39	α Pegasi	9	59 51.38	+ 0.25	+ 4.71	24 10 5.75	27.149	+ 26.8	38.6	22 59	.....	.. ..	....
40	α Andromedæ	8	3 17.63	+ 0.41	+ 4.74	10 18 5.42	27.255	+ 10.8	39.5	0 3	.....	.. ..	....
41	β Andromedæ	9	4 13.06	+ 0.50	+ 4.64	3 44 5.80	29.388	+ 3.9	38.1	1 4	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
29 5 10	......	....	82.1
5 20	......	....	82.4
5 31	29.940	83.0	82.9
11 32	29.918	73.2	73.1
11 56	......	....	72.8
12 15	29.912	72.0	71.5
21 39	29.838	61.2	63.7
22 1	......	....	65.2
22 37	......	....	69.0
23 0	29.840	66.3	70.8
30 2 28	29.778	80.3	82.2
3 37	29.740	84.2	85.4
4 30	29.708	85.7	86.1
4 54	......	....	86.3
5 10	29.682	86.1	86.2
5 20	......	...	86.1
5 31	29.672	86.3	86.1
21 39	29.980	48.5	43.9
23 0	30.020	48.0	45.0
1 2 32	30.057	52.6	49.8
4 30	30.052	55.1	52.9
4 59	30.056	56.2	53.0
5 10	......	....	52.3
5 50	30.058	56.9	53.1
6 17	......	....	53.8
6 38	30.070	56.5	53.4
23 0	30.218	44.4	43.9
0 3	30.222	48.1	47.8
1 4	30.216	51.4	50.7

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3.	Bisections at VI, VII.
6, 21, 33.	Bisections at II, VI.
7, 20, 32.	Bisections at I, VII.
16, 29.	Bisections at I, II, III.
17, 30.	Bisections at V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 7.4	− 7.3	...	+ 0.1
7	+ 7.4	+ 7.3	− 0.2	+ 14.5
16	+ 3.6	−15 53.6	...	−15 50.0
17	+ 3.6	+15 53.6	...	+15 57.2
18	+ 2.4	....	+ 0.3	+ 2.7
20	+ 1.8	+ 6.8	...	+ 8.6
21	+ 1.8	− 6.8	+ 0.1	− 4.9
29	+ 3.5	−15 55.4	...	−15 51.9
30	+ 3.6	+15 55.4	...	+15 59.0
32	+ 1.8	− 8.0	+ 0.1	− 6.1
33	+ 1.8	+ 8.0	...	+ 9.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	May 2, R.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, S.	9	33 32.62	+ 0.24	+ **4.60**	23 56 7.25	28.968	+ 25.9	**38.9**	2 33 37.46	+66.08	+14 54 8.1	....
2	Sun II, N.	9	35 44.78	+ 0.24	+ **4.60**	23 24 8.35	29.325	+ 25.3	**38.9**	2 35 49.62	−66.08	+15 25 56.4	....
3	Mercury I, C.	9	50 19.58	+ 0.33	+ **4.56**	16 20 6.80	29.888	+ 17.1	**38.9**	3 50 24.47	+ 0.23	+22 29 50.2	....
4	α Tauri	9	30 16.59	+ 0.26	+ 4.55	22 32 1.75	27.919	+ 24.0	37.6	4 30	.....	.. ..	....
5	Venus I, N.	4	3 54.87	+ 0.36	+ **4.51**	14 20 3.12	27.498	+ 14.8	**38.9**	5 3 59.74	+ 0.50	+24 31 4.5	....
6	Venus II, S.	5	3 55.66	+ 0.36	+ **4.51**	14 20 3.12	28.010	+ 14.8	**38.9**	5 4 0.53	− 0.29	+24 30 50.1	....
7	β Orionis	9	9 48.11	+ 0.02	+ 4.45	47 10 4.15	26.075	+1 2.2	39.0	5 9	.....	.. ..	....
8	β Tauri	9	20 5.02	+ 0.40	+ 4.52	10 20 6.02	26.840	+ 10.5	39.9	5 20	.....	.. ..	....
9	ε Orionis	9	31 13.07	+ 0.09	+ 4.51	40 6 4.52	28.682	+ 48.6	39.9	5 31	.....	.. ..	....
	May 3, L.												
10	α Aquarii	9	0 47.12	+ 0.03	+ 1.89	39 38 8.02	27.142	+ 48.2	39.6	22 0	.....	.. ..	....
11	ζ Pegasi	9	36 36.22	+ 0.13	+ 1.87	28 32 7.78	25.732	+ 31.6	39.2	22 36	.....	.. ..	....
12	α Piscis Australis	9	52 16.29	− 0.24	+ 1.79	68 56 5.65	29.014	+2 30.0	39.7	22 52	.....	.. ..	....
13	α Pegasi	9	59 54.49	+ 0.17	+ 1.73	24 10 8.75	27.032	+ 26.1	37.8	22 59	.....	.. ..	....
	May 4, L.												
14	Sun I, S	9	41 15.11	+ 0.18	+ **1.56**	23 20 9.18	29.680	+ 24.8	**39.0**	2 41 16.85	+66.29	+15 29 47.1	....
15	Sun II, N.	9	43 27.69	+ 0.18	+ **1.56**	22 48 9.62	30.137	+ 24.2	**39.0**	2 43 29.43	−66.29	+16 1 33.2	....
16	Mercury I, C	9	2 38.78	+ 0.26	+ **1.48**	15 38 9.15	26.309	+ 16.0	**39.0**	4 2 40.52	+ 0.24	+23 13 31.4	....
17	α Tauri	9	30 19.81	+ 0.20	+ 1.38	22 32 10.90	27.589	+ 23.7	37.0	4 30	.....	.. ..	....
18	β Tauri	9	20 8.22	+ 0.32	+ 1.39	10 20 8.32	26.754	+ 10.4	39.6	5 20	.....	.. ..	....
19	ε Orionis	9	31 16.19	+ 0.06	+ 1.41	40 6 9.72	28.498	+ 48.0	39.4	5 31	.....	.. ..	....
20	α Orionis	9	49 54.01	+ 0.13	+ 1.41	31 28 10.70	26.429	+ 34.9	39.9	5 49	.....	.. ..	....
21	θ Hydræ	9	9 19.10	+ 0.11	+ 1.19	36 8 5.55	26.322	+ 41.7	38.4	9 9	.....	.. ..	....
22	α Hydræ	9	22 49.52	+ 0.02	+ 1.10	47 4 7.85	29.261	+1 1.6	38.7	9 22	.....	.. ..	....
23	Moon I, N.	9	32 1.42	+ 0.16	+ **1.10**	28 56 8.50	29.417	+ 31.7	**38.3**	9 32 2.68	+67.86	+ 9 53 47.2	....
24	ε Leonis	9	40 20.86	+ 0.29	+ 1.07	14 38 3.00	27.406	+ 15.0	38.3	9 40	.....	.. ..	....
25	π Leonis	9	55 5.58	+ 0.16	+ 1.06	30 20 6.82	28.249	+ 33.7	38.8	9 55	.....	.. ..	....
26	υ Leonis	9	31 59.98	+ 0.08	+ 0.91	39 8 0.68	27.738	+ 47.0	38.3	11 32	.....	.. ..	....
27	β Leonis	9	44 7.62	+ 0.21	+ 0.89	23 44 3.85	27.865	+ 25.5	37.1	11 44	.....	.. ..	....
28	Mars I, N.	9	53 43.96	+ 0.11	+ **0.92**	36 20 2.70	27.440	+ 42.6	**38.3**	11 53 44.99	+ 0.52	+ 2 30 38.5	....
29	Mars II, S.	9	53 44.95	+ 0.11	+ **0.92**	36 20 2.70	27.945	+ 42.6	**38.3**	11 53 45.98	− 0.47	+ 2 30 24.1	....
30	ο Virginis	9	0 17.09	+ 0.16	+ 0.92	29 34 5.35	28.816	+ 32.9	38.5	12 0	.....	.. ..	....
31	6 B. Ursæ Minoris	5	14 18.56	+16.43	[+ 1.11]	310 38	....	....	....	12 14	.....	.. ..	....
32	η Virginis	9	14 57.78	+ 0.08	+ 0.95	38 58 4.25	28.349	+ 46.9	38.3	12 14	.....	.. ..	....
33	α Ursæ Minoris S. P.	5	23 53.42	−23.81	[+ 0.97]	307 40	....	....	....	1 23	.....	.. ..	....
	May 4, Br.												
34	α Aquarii	9	0 48.70	+ 0.02	+ 0.35	39 38 10.12	27.046	+ 48.5	39.5	22 0	.....	.. ..	....
35	ζ Pegasi	9	36 37.77	+ 0.13	+ 0.35	28 32 9.38	25.756	+ 31.7	38.9	22 36	.....	.. ..	....
36	α Piscis Australis	8	52 17.90	− 0.26	+ 0.23	68 56 10.10	28.886	+2 30.0	38.3	22 52	.....	.. ..	....
37	α Pegasi	9	59 56.01	+ 0.18	+ 0.22	24 10 10.12	26.988	+ 26.1	38.0	22 59	.....	.. ..	....
	May 5, Br.												
38	Sun S	..	.. ..	....	.....	23 4 8.65	26.642	+ 24.3	**38.8**	.. ..	.....	+15 47 14.5	....
39	Sun II, N.	9	47 19.78	+ 0.21	+ **0.01**	22 32 8.08	27.132	+ 23.6	**38.8**	2 47 20.00	−66.31	+16 19 0.7	....
40	Mercury I, C.	9	8 25.89	+ 0.29	− **0.08**	15 18 9.88	30.110	+ 15.6	**38.8**	4 8 26.10	+ 0.25	+23 31 42.5	....
41	ι Aurigæ	9	50 40.57	+ 0.39	− 0.15	5 50 10.00	28.361	+ 5.8	39.0	4 50	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
2	2	34	30.194	55.1	53.3
	3	50	30.167	56.6	55.2
	4	30	30.142	57.7	57.1
	5	4	....	....	58.3
	5	10	30.120	58.8	58.0
	5	20	....	....	58.8
	5	31	30.110	58.8	57.5
3	22	1	29.954	50.4	50.7
	22	37	29.966	51.4	51.0
	22	52	....	....	51.9
	23	0	29.962	51.9	52.1
4	2	41	29.958	57.8	58.0
	4	3	29.946	59.8	59.3
	4	30	....	....	60.1
	5	20	29.932	60.9	60.3
	5	31	....	....	61.0
	5	50	29.926	61.4	61.0
	9	9	29.930	60.5	59.1
	9	32	....	....	57.8
	9	55	29.938	58.4	56.8
	11	32	29.946	55.6	54.0
	12	15	29.944	54.4	52.8
	22	1	29.960	48.0	48.6
	22	37	....	....	50.2
	22	52	....	....	52.2
	23	0	29.970	50.8	52.4
5	2	47	29.972	61.3	62.4
	4	8	29.956	64.0	64.5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 14, 38.	Bisections at I, II, III.
2, 15, 39.	Bisections at V, VI, VII.
3.	Bisections at II, VI, VII.
5, 29.	Bisections at I, VII.
6, 28.	Bisections at II, VI.
11, 12, 41.	Z. D. thread D_1 used.
11.	Bisections at VI, VII.
23.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 3.5	+15 54.2	...	+15 57.7
2	+ 3.5	−15 54.1	...	−15 50.6
3	+ 2.4	....	+ 0.4	+ 2.8
5	+ 1.8	− 7.2	0.0	− 5.4
6	+ 1.8	+ 7.2	...	+ 9.0
14	+ 3.5	+15 53.0	...	+15 56.5
15	+ 3.4	−15 53.0	...	−15 49.6
16	+ 2.4	....	+ 0.4	+ 2.8
23	+28 21.3	−16 4.2	...	+12 17.1
28	+ 7.1	− 7.3	...	− 0.2
29	+ 7.1	+ 7.3	− 0.2	+ 14.2
38	+ 3.4	+15 53.1	...	+15 56.5
39	+ 3.3	−15 53.0	...	−15 49.7
40	+ 2.4	....	+ 0.4	+ 2.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Orionis	9	9 52.69	+ 0.01	− 0.14	47 10 11.20	25.864	+1 0.8	39.1	5 9	.....	.. ..	....
2	γ Geminorum	9	32 7.03	+ 0.22	− 0.19	22 22 11.30	27.574	+ 23.3	38.3	6 32	.....	.. ..	....
3	ε Geminorum	6	37 58.43	+ 0.31	− 0.27	13 38 8.62	26.462	+ 13.7	39.5	6 37	.....	.. ..	....
4	α Leonis	9	3 14.26	+ 0.16	− 0.47	26 24 6.28	28.609	+ 28.3	38.6	10 3	.....	.. ..	....
5	γ^1 Leonis	9	14 39.38	+ 0.23	− 0.49	18 32 7.80	25.695	+ 19.2	38.2	10 14	.....	.. ..	....
6	μ Hydræ	9	21 26.23	− 0.07	− 0.46	55 10 7.72	29.004	+1 21.9	39.3	10 21	.....	.. ..	....
7	Moon I, N	9	27 46.61	+ 0.10	− **0.50**	33 6 7.35	29.579	+ 37.3	**38.8**	10 27 46.21	+66.62	+ 5 43 38.7	....
8	41 Leonis Minoris	9	38 10.53	+ 0.26	− 0.53	15 10 4.00	26.265	+ 15.5	38.9	10 38	.....	.. ..	....
9	υ Leonis	9	32 1.49	+ 0.06	− 0.58	39 8 7.10	27.562	+ 46.8	39.5	11 32	.....	.. ..	....
10	β Leonis	9	44 9.13	+ 0.18	− 0.60	23 44 8.78	27.748	+ 25.3	38.6	11 44	.....	.. ..	....
11	Mars I, C	3	53 29.98	+ 0.08	− **0.62**	36 20 7.45	29.938	+ 42.4	**39.6**	11 53 29.44	+ 0.43	+ 2 29 23.8	....
12	Mars II	2	53 30.80	+ 0.08	− **0.62**	... .	......	....	...	11 53 30.26	− 0.39	.. ..	....
13	ο Virginis	9	0 18.61	+ 0.13	− 0.58	29 34 9.20	28.730	+ 32.7	39.8	12 0	.....	.. ..	....
14	6 B. Ursæ Minoris	7	14 20.74	+15.56	[− 0.62]	310 38	......	....	....	12 14	.....	.. ..	....
15	31 Comæ Berenices	9	47 1.02	+ 0.30	− 0.77	10 46 9.90	29.701	+ 11.0	40.7	12 47	.....	.. ..	....
16	α Ursæ Minoris S. P.	7	23 54.91	−22.56	[− 1.40]	307 40	......	....	....	1 23	.....	.. ..	....
	May 5, R.												
17	α Pegasi	9	59 57.69	+ 0.21	− 1.46	24 10 1.15	27.270	+ 25.8	36.9	22 59	.....	.. ..	....
18	α Andromedæ	9	3 24.02	+ 0.36	− 1.51	10 18 2.18	27.359	+ 10.4	38.9	0 3	.....	.. ..	....
19	β Andromedæ	9	4 19.43	+ 0.45	− 1.61	3 43 59.30	29.598	+ 3.8	37.2	1 4	.....	.. ..	....
	May 6, R.												
20	Sun I, N	9	48 59.89	+ 0.25	− **1.75**	22 13 59.80	29.248	+ 23.0	**37.8**	2 48 58.39	+66.32	+16 36 9.4	....
21	Sun II, S	9	51 12.53	+ 0.25	− **1.75**	22 46 1.00	28.672	+ 23.6	**37.8**	2 51 11.03	−66.32	+16 4 22.9	....
22	Mercury I, C	9	13 57.14	+ 0.33	− **1.86**	15 3 57.32	26.648	+ 15.1	**37.8**	4 13 55.61	+ 0.26	+23 47 33.2	....
23	α Tauri	9	30 22.98	+ 0.26	− 1.85	22 32 0.30	27.960	+ 23.2	36.5	4 30	.....	.. ..	....
24	β Orionis	9	9 54.49	+ 0.06	− 2.00	47 10 1.15	26.182	+1 0.2	37.6	5 9	.....	.. ..	....
25	β Tauri	9	20 11.42	+ 0.38	− 1.89	10 20 1.55	26.958	+ 10.2	38.2	5 20	.....	.. ..	....
26	Venus I, N	4	24 38.28	+ 0.34	− **1.95**	13 47 58.75	29.040	+ 13.7	**37.8**	5 24 36.67	+ 0.47	+25 2 24.9	....
27	Venus II, S	5	24 39.00	+ 0.34	− **1.95**	13 47 58.75	29.558	+ 13.8	**37.8**	5 24 37.39	− 0.25	+25 2 10.2	....
28	ε Orionis	8	31 19.52	+ 0.11	− 1.99	40 6 2.70	28.761	+ 47.0	39.1	5 31	.....	.. ..	....
29	p^3 Leonis	3	2 1.41	+ 0.09	− 2.27	36 22 1.18	27.434	+ 41.8	38.4	11 1	.....	.. ..	....
30	δ Leonis	..	.. ..	....	.....	17 48 2.50	27.231	+ 18.3	39.2	11 8	.....	.. ..	....
31	Moon I, N	9	21 52.48	+ 0.08	− **2.34**	37 33 58.60	27.334	+ 43.7	**38.8**	11 21 50.22	+65.71	+ 1 16 45.0	....
32	υ Leonis	9	32 3.23	+ 0.08	− 2.35	39 8 0.42	27.795	+ 46.3	39.0	11 32	.....	.. ..	....
33	β Leonis	9	44 10.86	+ 0.20	− 2.36	23 43 59.95	28.035	+ 25.1	37.9	11 44	.....	.. ..	....
34	Mars I, N	4	53 19.04	+ 0.10	− **2.37**	36 22 1.60	28.658	+ 42.0	**38.8**	11 53 16.77	+ 0.46	+ 2 28 6.0	....
35	Mars II, S	5	53 19.91	+ 0.10	− **2.37**	36 22 1.60	29.160	+ 42.0	**38.8**	11 53 17.64	− 0.41	+ 2 27 51.6	....
36	ο Virginis	9	0 20.37	+ 0.16	− 2.38	29 34 5.78	28.841	+ 32.4	39.3	12 0	.....	.. ..	....
37	6 B. Ursæ Minoris	9	14 21.39	+15.27	[− 1.43]	310 38	......	....	....	12 14	.....	.. ..	....
38	ε Virginis	9	57 25.43	+ 0.18	− 2.49	27 22 3.35	27.822	+ 29.6	38.8	12 57	.....	.. ..	....
39	α Ursæ Minoris S.P.	9	23 55.44	−21.33	[− 2.75]	307 40	......	....	....	1 23	.....	.. ..	....
	May 6, L.												
40	ζ Pegasi	9	36 41.56	+ 0.18	− 3.44	28 32 6.80	25.818	+ 30.8	37.5	22 36	.....	.. ..	....
41	α Pegasi	9	59 59.78	+ 0.22	− 3.54	24 10 8.85	27.006	+ 25.4	36.8	22 59	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
5	5	10	29.946	65.9	66.1
	6	32	......	....	65.9
	6	38	29.938	66.2	65.7
	10	3	29.948	62.0	61.1
	10	28	......	....	60.1
	10	38	29.958	61.0	59.8
	11	32	29.972	58.7	57.2
	11	53	.. ...	....	56.6
	12	0	29.972	57.9	56.3
	12	47	29.970	56.4	55.0
	23	0	29.972	53.8	57.5
	0	3	......	....	61.8
	0	11	29.974	57.9	....
	1	4	29.976	62.9	65.6
6	2	51	29.960	67.0	68.9
	4	14	29.938	69.8	70.5
	4	30	......	....	70.9
	5	10	29.920	71.5	71.1
	5	25	......	....	71.9
	5	31	29.914	72.2	71.7
	11	2	29.900	64.3	62.3
	11	8	......	....	62.1
	11	22	......	....	61.5
	11	32	......	....	61.2
	11	44	29.894	62.8	60.9
	11	53	......	....	60.5
	12	0	......	....	60.2
	12	57	29.886	60.5	58.6
	22	37	29.822	58.3	61.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3. Bisections at I, VI, VII.
7, 31. Bisections at II, III, IV, V, VI.
11. Bisections at VI, VII.
20. Bisections at I, II, III.
21. Bisections at V, VI, VII.
26, 34. Bisections at I, VII.
27, 35. Bisections at II, VI.
30. Bisections at IV, V, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+31 48.0	−15 57.4	...	+15 50.6
11	+ 7.0	....	− 0.1	+ 6.9
20	+ 3.3	−15 53.2	...	−15 49.9
21	+ 3.4	+15 53.2	...	+15 56.6
22	+ 2.4	....	+ 0.5	+ 2.9
26	+ 1.8	− 7.4	+ 0.1	− 5.5
27	+ 1.8	+ 7.4	...	+ 9.2
31	+35 13.7	−15 50.0	...	+19 23.7
34	+ 7.0	− 7.3	...	− 0.3
35	+ 7.0	+ 7.3	− 0.2	+ 14.1

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Andromedæ	9	3 26.12	+ 0.36	− 3.59	10 18 8.58	27.112	+ 10.3	38.1	0 3	.....	.. ..	....
2	β Andromedæ	9	4 21.54	+ 0.44	− 3.69	3 44 6.05	29.364	+ 3.7	37.1	1 4	.....	.. ..	....
	May 7, L.												
3	Sun I, N	9	52 53.47	+ 0.25	− **3.79**	21 58 9.25	27.138	+ 22.4	**37.9**	2 52 49.93	+66.49	+16 53 0.7	....
4	Sun II, S	9	55 6.44	+ 0.25	− **3.79**	22 30 7.70	26.557	+ 22.9	**37.9**	2 55 2.90	−66.48	+16 21 17.3	....
5	Mercury I, C	9	19 12.16	+ 0.32	− **3.89**	14 50 8.10	27.260	+ 14.7	**37.9**	4 19 8.59	+ 0.27	+24 1 5.5	....
6	α Tauri	9	30 25.04	+ 0.25	− 3.90	22 32 10.08	27.631	+ 22.9	36.7	4 30	.....	.. ..	....
7	β Orionis..........	9	9 56.47	+ 0.06	− 3.98	47 10 4.15	26.139	+ 59.5	38.7	5 9	.....	.. ..	....
8	β Tauri	9	20 13.50	+ 0.37	− 3.96	10 20 5.88	26.839	+ 10.1	39.1	5 20	.....	.. ..	....
9	Venus I, N.......	9	29 50.01	+ 0.33	− **3.97**	13 42 8.00	28.478	+ 13.5	**37.9**	5 29 46.37	+ 0.53	+25 8 32.1	....
10	Venus S..........	..	.. ..	....	.....	13 42 8.00	28.960	+ 13.5	**37.9**	.. ..	.....	+25 8 18.7	....
11	α Orionis..........	9	49 59.30	+ 0.18	− 3.96	31 28 8.70	26.514	+ 33.8	39.3	5 49	.....	.. ..	....
12	υ Leonis	9	31 52.72	+ 0.11	+ 8.12	39 8 7.75	27.520	+ 45.9	38.3	11 32	.....	.. ..	....
13	β Leonis	9	44 0.38	+ 0.24	+ 8.07	23 44 10.48	27.616	+ 24.8	36.3	11 44	.....	.. ..	....
14	Mars I, N.........	9	52 58.59	+ 0.13	+ **8.08**	36 24 6.08	27.885	+ 41.6	**37.4**	11 53 6.80	+ 0.54	+ 2 26 22.5	....
15	Mars II, S........	9	52 59.62	+ 0.13	+ **8.08**	36 24 6.08	28.380	+ 41.6	**37.4**	11 53 7.83	− 0.49	+ 2 26 8.4	....
16	o Virginis.........	9	0 9.89	+ 0.19	+ 8.07	29 34 10.18	28.642	+ 32.1	37.8	12 0	.....	.. ..	....
17	6 B. Ursæ Minoris..	6	14 9.62	+16.98	[+ 8.13]	310 38	......	....	....	12 14	.....	.. ..	....
18	Moon I..........	9	14 43.47	+ 0.08	+ **8.08**	42 18	......	....	....	12 14 51.63	+65.18	.. ..	....
19	δ² Corvi............	9	24 45.06	− 0.02	+ 8.07	54 48 6.18	29.020	+1 20.3	38.2	12 24	.....	.. ..	....
20	ε Virginis.........	9	57 14.83	+ 0.21	+ 8.07	27 22 6.92	27.605	+ 29.5	36.3	12 57	.....	.. ..	....
21	α Ursæ Minoris S. P.	5	23 47.40	−24.53	[+ 8.95]	307 40	......	....	....	1 23	.....	.. ..	....
	May 7, Br.												
22	ε Pegasi............	9	39 18.23	+ 0.17	+ 8.07	29 24 5.32	29.375	+ 32.8	39.5	21 39	.....	.. ..	....
23	α Aquarii..........	9	0 41.06	+ 0.07	+ 8.02	39 38 8.00	27.090	+ 48.0	38.5	22 0	.....	.. ..	....
24	π² Pegasi...........	9	5 33.42	+ 0.43	+ 7.98	6 10 5.80	25.586	+ 6.3	38.1	22 5	.....	.. ..	....
25	ζ Pegasi...........	9	36 30.13	+ 0.18	+ 8.02	28 32 9.95	25.691	+ 31.5	37.8	22 36	.....	.. ..	....
	May 8, Br.												
26	Sun I, N..........	9	56 33.74	+ 0.24	+ **7.96**	21 40 8.08	30.018	+ 22.6	**38.7**	2 56 41.94	+66.61	+17 9 40.5	....
27	Sun II, S	9	58 46.96	+ 0.24	+ **7.96**	22 12 11.42	29.290	+ 23.2	**38.7**	2 58 55.16	−66.61	+16 37 56.2	....
28	Mercury I, C	9	23 56.19	+ 0.33	+ **7.94**	14 38 6.65	28.832	+ 14.8	**38.7**	4 24 4.46	+ 0.28	+24 12 22.8	....
29	α Tauri............	9	30 13.22	+ 0.24	+ 7.93	22 32 8.98	27.688	+ 23.5	37.8	4 30	.....	.. ..	....
30	β Orionis..........	9	9 44.60	+ 0.02	+ 7.92	47 10 8.08	25.940	+1 0.8	38.4	5 9	.....	.. ..	....
31	β Tauri............	9	20 1.62	+ 0.38	+ 7.90	10 20 8.68	26.761	+ 10.3	39.7	5 20	.....	.. ..	....
32	Venus I, N	4	34 47.74	+ 0.34	+ **7.93**	13 36 6.82	29.752	+ 13.7	**38.7**	5 34 56.01	+ 0.58	+25 13 57.4	....
33	Venus II, S......	5	34 48.63	+ 0.34	+ **7.93**	13 36 6.82	30.255	+ 13.7	**38.7**	5 34 56.90	− 0.31	+25 13 43.3	....
34	α Orionis..........	9	49 47.38	+ 0.16	+ 7.97	31 28 8.20	26.518	+ 34.5	39.7	5 49	.....	.. ..	....
35	τ Leonis	9	22 50.87	+ 0.05	+ 7.95	35 28 7.72	26.184	+ 40.6	38.9	11 22	.....	.. ..	....
36	υ Leonis	9	31 52.98	+ 0.02	+ 7.94	39 8 8.15	27.496	+ 46.4	38.5	11 32	.....	.. ..	....
37	β Leonis	9	44 0.59	+ 0.15	+ 7.94	23 44 8.50	27.721	+ 25.1	37.7	11 44	.....	.. ..	....
38	Mars I, N.........	9	52 51.97	+ 0.04	+ **7.93**	36 26 7.72	27.840	+ 42.2	**38.6**	11 52 59.94	+ 0.46	+ 2 24 22.7	....
39	Mars II, S........	9	52 52.85	+ 0.04	+ **7.93**	36 26 7.72	28.345	+ 42.2	**38.6**	11 53 0.82	− 0.42	+ 2 24 8.4	....
40	o Virginis	9	0 10.12	+ 0.10	+ 7.92	29 34 9.10	28.694	+ 32.5	38.7	12 0	.....	.. ..	....
41	6 B. Ursæ Minoris..	7	14 9.89	+17.04	[+ 7.26]	310 38	......	....	....	12 14	.....	.. ..	....
42	31 Comæ Berenices .	9	46 52.39	+ 0.28	+ 7.86	10 46 9.80	29.662	+ 11.0	40.0	12 47	.....	.. ..	....
43	ε Virginis.........	9	57 15.09	+ 0.12	+ 7.90	27 22 8.50	27.605	+ 29.7	38.1	12 57	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
6 23 0	29.824	59.8	63.0
0 3	29.832	63.8	66.3
1 4	......	....	69.9
7 2 55	29.818	72.0	73.9
4 19	29.806	73.7	74.2
4 30	......	....	74.7
5 10	29.798	74.3	75.0
5 20	......	....	75.1
5 30	......	....	75.1
5 50	29.788	74.8	75.0
11 32	29.854	66.4	65.0
11 53	......	....	64.2
12 15	......	....	62.8
12 25	......	....	62.3
12 57	29.886	62.8	60.9
21 39	29.936	51.9	51.2
22 1	......	....	52.4
22 37	29.954	53.8	53.8
8 2 59	29.950	62.9	63.2
4 30	29.942	65.2	65.8
5 10	......	....	66.3
5 35	......	....	67.0
5 50	29.924	67.4	67.0
11 23	29.936	61.8	60.6
11 44	......	....	60.0
12 0	29.940	60.6	59.1
12 47	29.940	59.0	57.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 26.	Bisections at I, II, III.
4, 27.	Bisections at V, VI, VII.
9, 14, 33, 39.	Bisections at II, VI.
10.	Bisection at I.
15, 32, 38.	Bisections at I, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 3.3	−15 51.7	...	−15 48.4
4	+ 3.3	+15 51.7	...	+15 55.0
5	+ 2.5	....	+ 0.5	+ 3.0
9	+ 1.7	− 6.7	0.0	− 5.0
10	+ 1.7	+ 6.7	...	+ 8.4
14	+ 7.0	− 7.1	...	− 0.1
15	+ 7.0	+ 7.1	− 0.1	+ 14.0
26	+ 3.2	−15 52.1	...	−15 48.9
27	+ 3.3	+15 52.1	...	+15 55.4
28	+ 2.5	....	+ 0.5	+ 3.0
32	+ 1.8	− 7.1	+ 0.1	− 5.2
33	+ 1.8	+ 7.1	...	+ 8.9
38	+ 6.9	− 7.2	...	− 0.3
39	+ 6.9	+ 7.2	− 0.1	+ 14.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Moon I, N	9	7 18.55	− 0.05	+ **7.86**	46 16 6.22	28.444	+1 0.0	**38.6**	13 7 26.36	+65.02	− 7 26 10.7	....
2	α Virginis	9	19 59.70	− 0.07	+ 7.84	49 30 12.65	26.571	+1 7.2	39.4	13 20	.....	.. ..	....
3	α Ursæ Minoris S. P.	6	23 49.23	−24.80	[+ 7.93]	307 40	......	....	....	1 23	.....	.. ..	....
4	*m* Virginis	9	36 25.96	− 0.05	+ 7.84	47 2 9.30	29.938	+1 1.8	37.2	13 36	.....	.. ..	....
	May 8, R.												
5	α Piscis Australis ..	7	52 10.50	− 0.20	+ 7.69	68 56 1.00	29.195	+2 28.0	36.9	22 52	.....	.. ..	....
6	α Pegasi...........	9	59 48.58	+ 0.23	+ 7.71	24 10 8.78	26.976	+ 25.7	36.3	22 59	.....	.. ..	....
7	α Andromedæ	9	3 14.90	+ 0.38	+ 7.66	10 18 1.00	27.375	+ 10.4	38.4	0 3	.....	.. ..	....
8	β Andromedæ	9	4 10.24	+ 0.47	+ 7.63	3 43 55.70	29.709	+ 3.8	36.5	1 4	.....	.. ..	....
	May 9, R.												
9	Sun I, S.........	9	0 26.81	+ 0.28	+ **7.65**	21 56 5.02	28.[illegible]30	+ 22.7	**38.1**	3 0 34.74	+66.62	+16 54 13.8	....
10	Sun II, N	9	2 40.04	+ 0.28	+ **7.65**	.21 24 5.20	29.423	+ 22.0	**38.1**	3 2 47.97	−66.61	+17 25 59.2	....
11	Mercury I, C	9	28 34.83	+ 0.35	+ **7.63**	14 30 6.98	26.444	+ 14.5	**38.1**	4 28 42.81	+ 0.28	+24 21 30.2	....
12	β Orionis..........	9	9 44.85	+ 0.07	+ 7.61	47 10 8.10	25.952	+1 0.1	38.2	5 9	.....	.. ..	....
13	β Tauri............	9	20 1.87	+ 0.40	+ 7 62	10 20 9.08	26.748	+ 10.2	39.9	5 20	.....	.. ..	....
14	Venus I, N	4	39 57.88	+ 0.36	+ **7.62**	13 32 5.08	28.175	+ 13.5	**38.1**	5 40 5.86	+ 0.51	+25 18 43.7	....
15	Venus II, S......	5	39 58.66	+ 0.36	+ **7.62**	13 32 5.08	28.670	+ 13.5	**38.1**	5 40 6.64	− 0.27	+25 18 29.8	....
16	α Orionis..........	9	49 47.67	+ 0.20	+ 7.64	31 28 5.48	26.634	+ 34.2	40.0	5 49	.....	.. ..	....
17	θ Aurigæ..........	9	52 58.69	+ 0.50	+ 7.63	1 38 9.75	29.405	+ 1.7	38.5	5 53	.....	.. ..	....
18	β Leonis	9	44 0.96	+ 0.18	+ 7.53	23 43 55.60	28.168	+ 25.0	37.5	11 44	.....	.. ..	....
19	Mars I, N	4	52 48.23	+ 0.06	+ **7.53**	36 27 56.75	28.830	+ 42.0	**38.4**	11 52 55.82	+ 0.41	+ 2 22 5.5	....
20	Mars II, S.......	5	52 49.00	+ 0.06	+ **7.53**	36 27 56.75	29.300	+ 42.0	**38.4**	11 52 56.59	− 0.36	+ 2 21 52.1	....
21	*o* Virginis	9	0 10.48	+ 0.13	+ 7.52	29 33 59.18	29.042	+ 32.3	38.6	12 0	.....	.. ..	....
22	6 B. Ursæ Minoris..	9	14 8.94	+16.97	[+ 7.70]	310 38	......	....	....	12 14	.....	.. ..	....
23	ε Virginis	9	57 15.44	+ 0.14	+ 7.52	27 21 56.05	28.039	+ 29.7	38.2	12 57	.....	.. ..	....
24	α Ursæ Minoris S. P.	9	23 49.50	−24.64	[+ 8.10]	307 40	......	....	....	1 23	.....	.. ..	....
25	*m* Virginis.........	9	36 26.32	− 0.02	+ 7.45	47 1 57.68	30.379	+1 1.6	37.9	13 36	.....	.. ..	....
26	η Bootis...........	9	49 58.57	+ 0.21	+ 7.48	19 58 0.20	27.688	+ 20.9	38.7	13 50	.....	.. ..	....
27	Moon I, N.......	9	59 55.36	− 0.05	+ **7.46**	50 5 58.78	25.832	+1 8.6	**38.4**	14 0 2.77	+65.11	−11 14 57.7	....
28	κ Virginis.........	9	7 38.42	− 0.04	+ 7.51	48 38 23.30	30.428	+1 5.3	39.0	14 7	.....	.. ..	....
29	λ Virginis.........	9	13 46.95	− 0.06	+ 7.42	51 44 1.95	31.210	+1 12.9	39.0	14 13	.....	.. ..	....
	May 10, Br.												
30	ε Bootis...........	9	40 40.02	+ 0.31	+ 7.03	11 22 9.28	27.728	+ 11.7	39.2	14 40	.....	.. ..	....
31	α^2 Libræ..........	9	45 26.56	− 0.10	+ 7.03	54 28 6.35	28.276	+1 21.0	39.4	14 45	.....	.. ..	....
32	Moon I, N.......	9	52 49.71	− 0.09	+ **7.03**	53 16 6.52	28.207	+1 17.6	**39.2**	14 52 56.65	+65.31	−14 26 21.2	....
33	β Libræ...........	9	11 42.90	− 0.05	+ 7.05	47 52 8.82	26.944	+1 4.1	38.1	15 11	.....	.. ..	....
34	β Coronæ Borealis .	9	23 44.78	+ 0.33	+ 7.01	9 24 6.80	29.115	+ 9.7	39.9	15 23	.....	.. ..	....
	May 11, L.												
35	β Libræ...........	9	11 43.32	+ 0.02	+ 6.57	47 52 8.90	26.921	+1 4.2	37.7	15 11	.. ..	.. ..	....
36	α Serpentis........	9	39 25.19	+ 0.15	+ 6.55	32 6 9.68	29.208	+ 36.6	38.6	15 39	..	.. ..	....
37	Moon N.........	9	.. ..	....	.....	55 42 2.50	26.008	+1 25.2	**37.7**	.. ..	.....	−16 51 25.5	....
38	Moon II, S	9	48 13.96	− 0.07	+ **6.53**	56 12 5.12	27.098	+1 26.8	**37.7**	15 48 20.42	−65.48	−17 21 57.0	....
39	δ Scorpii	9	54 32.39	− 0.12	+ 6.52	61 10 6.58	28.026	+1 45.6	37.5	15 54	.....	.. ..	....
40	β^1 Scorpii	9	59 44.23	− 0.09	+ 6.50	58 22 5.78	27.718	+1 34.4	37.6	15 59	.....	.. ..	....
41	η Ophiuchi	9	4 45.19	− 0.08	+ 6.47	54 25 59.65	28.030	+1 21.4	38.4	17 4	.....	.. ..	....
42	θ Ophiuchi	9	15 59.73	− 0.18	+ 6.44	63 44 5.35	26.190	+1 57.6	37.3	17 16	.....	.. ..	....
43	*b* Ophiuchi	9	20 23.30	− 0.17	+ 6.44	62 54 4.32	28.459	+1 53.6	36.7	17 20	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
8 13 36	29.946	57.5	56.0
22 52	29.974	55.3	58.5
23 0	......	....	59.1
0 3	30.000	60.1	62.3
1 4	30.018	65.0	65.3
9 3 3	30.008	69.3	70.1
4 29	30.000	72.0	72.0
5 10	......	....	72.6
5 20	29.996	73.3	72.5
5 40	......	....	72.6
5 53	29.988	73.8	72.0
11 44	29.992	64.8	63.4
11 53	......	....	63.1
12 0	......	....	62.7
12 23	29.997	63.2	....
12 57	30.004	61.6	59.9
13 36	30.006	60.0	58.8
13 50	......	....	58.4
14 0	......	....	58.1
14 14	30.007	59.2	57.7
10 14 36	30.052	58.1	55.0
14 53	......	....	54.1
15 24	30.038	56.0	53.1
11 15 12	30.100	57.2	54.2
16 0	30.090	54.8	52.1
17 5	30.072	53.7	51.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 27, 32. Bisections at II, III, IV, V, VI.
7. Bisections at I, VI, VII.
9, 37. Bisections at I, II, III.
10, 38. Bisections at V, VI, VII.
13, 41. Bisections at VI, VII.
14, 19. Bisections at I, VII.
15, 20. Bisections at II, VI.
28. Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+41 5.0	−15 33.9	...	+25 31.1
9	+ 3.3	+15 52.7	...	+15 56.0
10	+ 3.2	−15 52.6	...	−15 49.4
11	+ 2.5	....	+ 0.5	+ 3.0
14	+ 1.7	− 7.0	+ 0.1	− 5.2
15	+ 1.7	+ 7.0	...	+ 8.7
19	+ 6.9	− 6.8	...	+ 0.1
20	+ 6.9	+ 6.8	− 0.2	+ 13.5
27	+43 13.1	−15 25.5	...	+27 47.6
32	+44 45.2	−15 16.9	...	+29 28.3
37	+45 42.8	−15 7.6	...	+30 35.2
38	+45 59.4	+15 7.6	− 0.3	+61 6.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Uranus C, C	9	37 51.06	— 0.17	+ **6.46**	62 18 4.75	29.068	+1 50.8	**37.7**	17 37 57.35	.....	—23 29 18.5	....
2	γ^2 Sagittarii	9	59 31.14	— 0.25	+ 6.51	69 13 54.90	28.025	+2 33.0	37.6	17 59	.....	.. ..	....
	May 12, Br.												
3	ε Serpentis	9	45 54.98	+ 0.11	+ 6.26	34 4 9.02	28.472	+ 39.1	40.3	15 46	.....	.. ..	....
4	δ Scorpii	9	54 32.64	— 0.13	+ 6.30	61 10 7.70	28.100	+1 44.7	39.7	15 54	.....	.. ..	....
5	β^1 Scorpii	9	59 44.52	— 0.11	+ 6.25	58 22 9.18	27.681	+1 33.6	39.1	15 59	.....	.. ..	....
6	ζ Ophiuchi	9	31 45.55	— 0.02	+ 6.20	49 12 15.30	28.022	+1 7.1	39.5	16 31	.....	.. ..	....
7	Moon N	..	.. ..	....	.....	57 14 8.92	26.985	+1 29.8	**39.5**	.. ..	.....	—18 24 1.6	....
8	Moon II, S	6	41 33.18	— 0.10	+ **6.22**	57 44 12.02	27.432	+1 31.6	**39.5**	16 41 39.30	—65.46	—18 54 17.4	....
9	η Ophiuchi	9	4 45.48	— 0.07	+ 6.19	54 26 8.52	27.804	+1 21.0	40.3	17 4	.....	.. ..	....
10	θ Ophiuchi	9	15 59.93	— 0.16	+ 6.24	63 44 11.92	26.030	+1 57.0	38.7	17 16	.....	.. ..	....
11	b Ophiuchi	9	20 23.61	— 0.15	+ 6.13	62 54 10.40	28.331	+1 53.0	38.5	17 20	.....	.. ..	....
12	Uranus C, C	9	37 43.16	— 0.15	+ **6.17**	62 18 9.78	28.878	+1 50.2	**39.5**	17 37 49.18	.....	—23 29 15.8	....
13	γ^2 Sagittarii	9	59 31.48	— 0.22	+ 6.16	69 14 9.25	27.622	+2 32.1	39.6	17 59	.....	.. ..	....
	May 12, R.												
14	α Pegasi	9	59 50.32	+ 0.28	+ 6.03	24 10 9.02	27.015	+ 25.8	38.2	22 59	.....	.. ..	....
15	α Andromedæ	9	3 16.59	+ 0.42	+ 6.04	10 18 10.45	27.092	+ 10.4	39.7	0 3	.....	.. ..	....
16	β Andromedæ	9	4 11.96	+ 0.50	+ 5.97	3 43 59.70	29.642	+ 3.8	38.5	1 4	.....	.. ..	....
	May 13, R.												
17	Sun I, N	9	16 4.81	— 0.31	+ **5.95**	20 22 8.80	28.477	+ 20.9	**39.0**	3 16 11.07	+66.93	+18 28 25.6	....
18	Sun II, S	9	18 18.68	+ 0.31	+ **5.95**	20 54 8.52	27.907	+ 21.5	**39.0**	3 18 24.94	—66.94	+17 56 40.5	....
19	α Tauri	9	30 15.23	+ 0.29	+ 5.88	22 32 9.85	27.655	+ 23.3	37.6	4 30	.....	.. ..	....
20	β Orionis	9	9 46.51	+ 0.07	+ 5.94	47 10 8.50	25.921	+1 0.3	38.5	5 9	.....	.. ..	....
21	β Tauri	3	20 3.61	+ 0.42	+ 5.85	10 20 12.75	26.632	+ 10.3	40.1	5 20	.....	.. ..	....
22	ε Orionis	8	31 11.51	+ 0.13	+ 5.96	40 6 10.20	28.492	+ 47.2	40.1	5 31	.....	.. ..	....
23	Venus I, N	7	0.37.04	+ 0.38	+ **5.88**	13 20 9.95	27.990	+ 13.3	**39.0**	6 0 43.30	+ 0.55	+25 30 45.0	....
24	ε Serpentis	9	45 55.66	+ 0.14	+ 5.56	34 4 3.40	28.684	+ 38.7	40.4	15 46	.....	.. ..	....
25	ζ Ophiuchi	9	31 46.22	0.00	+ 5.53	49 12 6.22	28.398	+1 6.3	40.3	16 31	.....	.. ..	....
26	η Ophiuchi	9	4 46.16	— 0.05	+ 5.51	54 26 2.10	28.088	+1 20.1	41.1	17 4	.....	.. ..	....
27	b Ophiuchi	9	20 24.29	— 0.13	+ 5.45	62 53 59.50	28.752	+1 51.5	38.2	17 20	.....	.. ..	....
28	Moon N	..	.. ..	....	.....	57 50 3.80	29.670	+1 31.0	**40.0**	.. ..	.....	—19 1 12.7	....
29	Moon II, S	9	34 36.33	— 0.08	+ **5.48**	58 20 2.98	29.745	+1 32.8	**40.0**	17 34 41.73	—65.21	—19 31 15.9	....
30	Uranus C, C	9	37 35.50	— 0.12	+ **5.48**	62 18 7.45	28.858	+1 49.0	**40.0**	17 37 40.86	.....	—23 29 11.2	....
31	μ Sagittarii	9	7 55.02	0.10	+ 5.46	59 54 14.00	28.414	+1 38.8	40.0	18 8	.....	.. ..	....
32	η Serpentis	9	16 14.24	+ 0.07	+ 5.45	41 46 11.72	26.895	+ 51.3	40.0	18 16	.....	.. ..	....
	May 14, L.												
33	γ^2 Sagittarii	9	59 33.34	— 0.18	+ 4.32	69 14 15.75	27.498	+2 28.7	39.0	17 59	.....	.. ..	....
34	μ Sagittarii	9	7 56.13	— 0.08	+ 4.35	59 54 12.25	28.514	+1 37.7	40.0	18 8	.....	.. ..	....
35	Moon II, N	9	26 58.71	— 0.06	+ **4.34**	57 32 13.22	29.799	+1 29.0	**38.9**	18 27 2.99	—64.71	—18 43 25.0	....
36	1 Aquilæ	9	29 53.72	+ 0.04	+ 4.34	47 8 12.92	29.084	+1 1.1	38.9	18 29	.....	.. ..	....
37	σ Sagittarii	9	49 13.36	— 0.14	+ 4.35	65 14 11.88	27.409	+2 2.5	37.7	18 49	.....	.. ..	....
38	51 H. Cephei s. p.	7	55 11.29	—11.57	[+ 4.68]	306 .4	......	....	....	6 55	.....	.. ..	....
39	λ Ursæ Minoris	5	18 55.54	+32.34	[+ 3.60]	309 52	......	....	....	19 19	.....	.. ..	....
	May 14, Br.												
40	α Andromedæ	9	3 18.41	+ 0.39	+ 4.30	10 18 5.92	27.363	+ 10.2	42.7	0 3	.....	.. ..	....
41	β Andromedæ	7	4 13.79	+ 0.48	+ 4.21	3 44 0.82	29.505	+ 3.7	38.4	1 4	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
11	18	0	30.068	52.9	51.1
12	15	46	30.110	58.1	56.9
	16	42	......	....	55.4
	17	5	30.096	56.9	55.0
	17	38	......	....	54.7
	18	0	30.094	56.0	54.6
	23	0	30.104	57.2	59.9
	0	3	30.115	61.1	63.0
	1	4	30.118	65.3	66.1
13	3	18	30.094	70.7	71.1
	4	30	30.082	72.7	71.7
	5	10	......	....	72.4
	5	20	......	....	72.1
	5	30	30.066	73.2	....
	5	31	......	....	72.1
	6	1	30.050	74.6	73.4
	15	46	29.940	61.4	59.1
	16	32	29.928	60.2	58.4
	17	5	......	.. .	57.8
	17	20	29.918	59.4	58.5
	17	38	29.916	59.0	57.3
	18	8	......	....	56.8
	18	16	29.910	58.3	56.7
14	18	0	29.744	62.1	60.0
	18	49	29.742	61.4	59.7
	0	3	29.758	64.8	67.6
	1	4	29.766	68.8	70.7

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7, 17, 28.	Bisections at I, II, III.
8, 18, 29.	Bisections at V, VI, VII.
21, 22, 23, 41.	Bisections at VI, VII.
25, 40.	Bisections at I, II, VI.
27.	Bisections at II, VI, VII.
35.	Bisections at II, III, IV, V, VI.
41.	Z. D. thread D_1 used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 0.4	....	...	+ 0.4
7	+46 9.2	—15 0.1	...	+31 9.1
8	+46 25.0	+15 0.1	— 0.2	+61 24.9
12	+ 0.4	....	...	+ 0.4
17	+ 3.0	—15 52.5	...	—15 49.5
18	+ 3.1	+15 52.5	...	+15 55.6
23	+ 1.8	— 7.4	0.0	— 5.6
28	+46 8.6	—14 54.5	...	+31 14.1
29	+46 23.9	+14 54.5	— 1.1	+61 17.3
30	+ 0.4	....	...	+ 0.4
35	+45 44.7	—14 50.0	...	+30 54.7

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READ-ING.	REFRAC-TION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	May 15, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, S	9	23 58.22	+ 0.29	+ **4.20**	20 24 8.95	29.100	+ 20.5	**39.9**	3 24 2.71	+ 67.07	+18 26 9.0	....
2	Sun II, N.........	9	26 12.37	+ 0.29	+ **4.20**	19 52 11.38	29.697	+ 19.9	**39.9**	3 26 16.86	−67.08	+18 57 49.2	....
3	α Orionis..........	9	49 51.07	+ 0.20	+ 4.20	31 28 11.50	26.470	+ 33.4	41.0	5 49	.....	.. ..	....
4	Venus I, C........	9	10 55.72	+ 0.37	+ **4.14**	13 18 8.40	28.731	+ 13.0	**39.9**	6 11 0.23	+ 0.51	+25 32 26.9	....
5	Venus II	9	10 56.48	+ 0.37	+ **4.14**	... .	......	....	....	6 11 0.99	− 0.25	.. ..	....
6	γ Geminorum	9	32 2.56	+ 0.28	+ 4.12	22 22 11.68	27.581	+ 22.5	38.2	6 32	.....	.. ..	....
7	α² Geminorum	9	28 20.87	+ 0.44	+ 4.05	6 46 11.28	25.631	+ 6.5	40.4	7 28	.....	.. ..	....
8	α Canis Minoris....	9	34 9.78	+ 0.20	+ 4.14	33 22 11.95	28.389	+ 36.0	38.6	7 34	.....	.. ..	....
9	b Ophiuchi........	9	20 26.06	− 0.16	+ 3.76	62 54 9.22	28.521	+1 50.5	40.1	17 20	.....	.. ..	....
10	α Ophiuchi........	9	30 24.32	+ 0.18	+ 3.80	26 12 5.00	29.585	+ 28.0	39.3	17 30	.....	.. ..	....
11	Uranus C, C	9	37 20.36	− 0.15	+ **3.77**	62 18 9.15	28.615	+1 47.8	**40.2**	17 37 23.98	.....	−23 29 4.5	....
12	μ Sagittarii........	9	7 56.79	− 0.13	+ 3.77	59 54 8.00	28.705	+1 37.9	41.5	18 8	.....	.. ..	....
13	η Serpentis........	9	16 16.04	+ 0.04	+ 3.73	41 46 7.62	27.078	+ 50.8	40.9	18 16	.....	.. ..	....
14	51 H. Cephei S. P...	7	55 12.72	−11.46	[+ 2.90]	306 4	......	....	....	6 55	.....	.. ..	....
15	ζ Aquilæ..........	9	0 55.31	+ 0.20	+ 3.73	25 8 7.00	26.751	+ 26.8	40.1	19 0	.....	.. ..	....
16	Moon II, N......	9	18 20.01	− 0.10	+ **3.69**	56 24 10.08	26.373	+1 25.8	**40.2**	19 18 23.60	−64.05	−17 33 39.7	....
17	λ Ursæ Minoris....	6	18 54.98	+31.94	[+ 5.34]	309 52	......	....	....	19 19	.....	.. ..	....
18	κ Aquilæ..........	9	31 38.82	0.00	+ 3.72	46 4 10.62	28.929	+ 59.3	40.1	19 31	.....	.. ..	....
19	α Aquilæ..........	9	46 1.18	+ 0.15	+ 3.69	30 14 11.38	27.230	+ 33.3	40.9	19 46	.....	.. ..	....
20	c Sagittarii........	9	56 40.34	− 0.10	+ 3.59	66 48 7.52	26.579	+2 12.6	39.1	19 56	.....	.. ..	....
	May 16, R.												
21	51 H. Cephei S. P...	9	55 13.11	−12.38	[+ 3.19]	306 4	......	....	....	6 55	.....	.. ..	....
22	λ Ursæ Minoris....	9	18 54.78	+34.55	[+ 3.72]	309 52	......	....	....	19 19	.....	.. ..	....
23	β Aquilæ..........	9	50 31.60	+ 0.15	+ 3.15	32 39 59.25	29.252	+ 37.0	39.3	19 50	.....	.. ..	....
24	τ Aquilæ..........	9	59 22.70	+ 0.16	+ 3.18	31 49 58.62	28.510	+ 35.8	40.0	19 59	.....	.. ..	....
25	Moon II, N......	9	8 33.23	− 0.07	+ **3.12**	54 25 55.50	29.834	+1 20.5	**39.5**	20 8 36.28	−63.38	−15 36 59.2	....
26	π Capricorni.......	9	21 45.14	− 0.10	+ 3.06	57 21 58.15	26.385	+1 29.8	39.1	20 21	.....	.. ..	....
27	α Delphini	9	35 6.38	+ 0.25	+ 3.10	23 16	......	....	....	20 35	.....	.. ..	....
	May 17, Br.												
28	ε Delphini	9	28 33.95	+ 0.17	+ 2.44	27 52 10.15	27.994	+ 30.3	39.6	20 28	.....	.. ..	...
29	α Delphini	2	35 7.12	+ 0.22	+ 2.42	23 16 12.58	28.622	+ 24.7	40.5	20 35	.....	.. ..	....
30	Moon II, N......	9	57 44.75	− 0.09	+ **2.40**	51 50 10.35	26.086	+1 12.8	**40.0**	20 57 47.06	−62.82	−12 59 19.0	....
31	β Aquarii..........	9	26 26.32	− 0.01	+ 2.38	44 50 10.80	27.439	+ 57.0	39.2	21 26	.....	.. ..	....
32	α Aquarii..........	9	0 47.03	+ 0.04	+ 2.38	39 38 11.25	27.004	+ 47.4	40.5	22 0	.....	.. ..	....
	May 18, L.												
33	β Aquarii..........	9	26 27.12	+ 0.05	+ 1.55	44 50 5.80	27.604	+ 56.1	38.3	21 26	... .	.. ..	....
34	ε Pegasi...........	9	39 25.04	+ 0.20	+ 1.56	29 24 5.90	29.326	+ 31.8	39.3	21 39	.....	.. ..	....
35	Moon II, N......	9	46 14.45	+ 0.01	+ **1.54**	48 38 8.50	25.712	+1 3.9	**39.3**	21 46 16.00	−62.53	− 9 47 0.7	....
36	α Aquarii..........	9	0 47.83	+ 0.10	+ 1.55	39 38 4.35	27.169	+ 46.6	40.0	22 0	.....	.. ..	....
37	α Pegasi...........	8	59 55.05	+ 0.26	+ 1.49	24 10 9.35	26.921	+ 25.1	38.3	22 59	.....	.. ..	....
	May 19, L.												
38	Sun I, S.........	9	39 51.20	+ 0.33	+ **1.42**	19 30 7.72	27.050	+ 19.4	**39.3**	3 39 52.95	+67.45	+19 21 9.1	....
39	Sun II, N........	9	42 6.09	+ 0.33	+ **1.42**	18 58 6.25	27.897	+ 18.8	**39.3**	3 42 7.84	−67.44	+19 52 46.1	....
40	α Orionis..........	9	49 53.83	+ 0.22	+ 1.41	31 28 7.30	26.526	+ 33.2	40.7	5 49	.....	.. ..	....
41	Venus I, N	9	31 26.11	+ 0.39	+ **1.36**	13 24 6.05	25.808	+ 12.9	**39.3**	6 31 27.86	+ 0.57	+25 27 52.2	....
42	Venus S.........	..	.. ..	....	.....	13 24 6.05	26.300	+ 12.9	**39.3**	.. ..	.....	+25 27 38.0	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
15	3	26	29.765	76.0	77.0
	5	50	29.754	79.1	79.5
	6	11	......	....	79.1
	6	32	.....	....	79.2
	7	34	29.738	79.2	79.1
	17	20	29.802	63.1	61.0
	17	37	......	....	60.7
	18	8	......	....	60.1
	18	16	29.820	61.9	59.3
	19	1	......	....	57.9
	19	32	......	....	57.6
	19	57	29.842	59.9	57.9
16	19	51	30.047	59.6	57.3
	20	9	......	..	57.2
	20	22	......	....	57.3
	20	35	30.058	59.2	57.2
17	20	29	29.922	59.7	57.8
	20	58	29.932	59.4	57.9
	21	26	......	...	58.0
	22	1	29.940	59.8	59.1
18	21	26	29.830	65.1	64.1
	21	39	......	....	64.8
	22	1	29.840	65.7	66.0
	23	0	29.846	67.0	68.8
19	3	42	29.857	80.3	82.2
	5	50	29.828	83.4	84.9
	6	31	......	...	84.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 38.	Bisections at I, II, III.
2, 39.	Bisections at V, VI, VII.
16, 25, 30, 35.	Bisections at II, III, IV, V, VI.
26, 29.	Bisections at VI, VII.
35, 36, 37, 40.	Z. D. thread D_1 used.
41.	Bisections at II, VI.
42.	Bisections at I, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 3.0	+15 50.1	...	+15 53.1
2	+ 3.0	−15 50.1	...	−15 47.1
4	+ 1.8	....	0.0	+ 1.8
11	+ 0.4	....	...	+ 0.4
16	+45 0.7	−14 47.3	...	+30 13.4
25	+43 57.5	−14 47.2	...	+29 10.3
30	+42 35.5	−14 49.8	...	+27 45.7
35	+40 54.0	−14 55.4	...	+25 58.6
38	+ 2.9	+15 48.4	...	+15 51.3
39	+ 2.8	−15 48.5	...	−15 45.7
41	+ 1.8	− 7.1	...	− 5.3
42	+ 1.8	+ 7.1	0.0	+ 8.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Canis Majoris....	9	40 51.13	+ 0.01	+ 1.37	55 24 6.65	30.101	+1 18.4	38.9	6 40	.....	.. ..	....
2	α^2 Geminorum	9	28 23.54	+ 0.48	+ 1.29	6 44 6.40	29.974	+ 6.5	39.1	7 28	.....	.. ..	....
3	β Geminorum	9	39 21.75	+ 0.43	+ 1.34	10 36 9.15	26.575	+ 10.2	40.1	7 39	.....	.. ..	....
	May 19, R.												
4	α Aquarii..........	6	0 48.53	+ 0.07	+ 0.91	39 38 8.08	27.098	+ 46.4	39.5	22 0	.....	.. ..	....
5	Moon II	9	34 32.84	+ 0.01	+ **0.87**	45 12	......	....	....	22 34 33.72	−62.60	.. ..	....
6	α Pegasi..	9	59 55.72	+ 0.24	+ 0.87	24 10 5.35	27.129	+ 25.1	38.1	22 59	.....	.. ..	....
7	α Andromedæ	9	3 22.01	+ 0.40	+ 0.84	10 18 5.62	27.274	+ 10.1	40.1	0 3	.....	.. ..	....
8	β Andromedæ	9	4 17.35	+ 0.49	+ 0.77	3 44 3.68	29.505	+ 3.6	38.4	1 4	.....	.. ..	....
	May 20, R.												
9	Sun I, S..........	9	43 51.08	+ 0.25	+ **0.73**	19 16 8.45	29.340	+ 19.0	**37.7**	3 43 52.06	+67.52	+19 34 1.9	....
10	Sun II, N.........	9	46 6.13	+ 0.25	+ **0.73**	18 44 9.62	29.950	+ 18.4	**37.7**	3 46 7.11	−67.53	+20 5 43.0	....
11	α Tauri............	9	30 20.47	+ 0.22	+ 0.73	22 32 8.55	27.676	+ 22.5	36.3	4 30	.....	.. ..	....
12	β Orionis..........	9	9 51.84	− 0.02	+ 0.69	47 10 6.10	25.992	+ 58.1	36.9	5 9	.....	.. ..	....
13	β Tauri............	9	20 8.91	+ 0.37	+ 0.59	10 20 6.20	26.818	+ 9.9	37.9	5 20	.....	.. ..	....
14	ε Orionis..........	9	31 16.78	+ 0.06	+ 0.74	40 6	......	....	....	5 31	.....	.. ..	....
15	α Orionis..........	9	49 54.62	+ 0.15	+ 0.69	31 28 3.88	26.645	+ 33.0	38.1	5 49	.....	.. ..	....
	May 20, L.												
16	ζ Pegasi...........	9	36 38.74	+ 0.16	− 0.20	28 32 4.98	25.849	+ 30.3	38.1	22 36	.....	.. ..	....
17	α Piscis Australis ..	9	52 18.91	+ 0.30	− 0.24	68 56 1.20	29.305	+2 23.5	38.2	22 52	.....	.. ..	....
18	α Pegasi...........	9	59 56.86	+ 0.21	− 0.21	24 10 3.48	27.185	+ 25.0	37.8	22 59	.....	.. ..	....
19	Moon II, N	9	23 19.74	+ 0.03	− **0.23**	40 56 5.32	27.752	+ 48.0	**38.2**	23 23 19.54	−63.10	− 2 5 40.8	....
20	α Andromedæ	9	3 23.11	+ 0.40	− 0.23	10 18 6.08	27.228	+ 10.1	39.3	0 3	.....	.. ..	....
21	γ Pegasi...........	9	8 15.24	+ 0.23	− 0.24	24 12 3.08	27.896	+ 24.8	37.6	0 8	.....	.. ..	....
	May 21, L.												
22	Sun I, N..........	9	47 51.68	+ 0.33	− **0.38**	18 32 7.32	28.910	+ 18.3	**39.4**	3 47 51.63	+67.63	+20 18 17.7	....
23	Sun II, S	9	50 6.93	+ 0.33	− **0.38**	19 4 5.70	28.200	+ 18.8	**39.4**	3 50 6.88	−67.62	+19 46 38.3	....
24	ε Orionis..........	5	31 18.00	+ 0.12	− 0.54	40 6 6.78	28.606	+ 45.5	41.1	5 31	.....	.. ..	....
25	α Orionis..........	9	49 55.69	+ 0.21	− 0.44	31 28 6.40	26.624	+ 33.1	40.4	5 49	.....	.. ..	....
26	γ Geminorum	9	32 7.03	+ 0.30	− 0.41	22 22 8.52	27.704	+ 22.3	38.3	6 32	.....	.. ..	....
27	Venus I, N.......	9	41 37.58	+ 0.40	− **0.48**	13 30 4.68	26.812	+ 13.0	**40.2**	6 41 37.50	+ 0.58	+25 21 25.7	....
28	Venus S..........	..	.. ..	....	.....	13 30 4.68	27.355	+ 13.0	**40.2**	.. ..	. ...	+25 21 10.1	....
29	α^2 Geminorum	9	28 25.32	+ 0.49	− 0.52	6 44 6.85	30.008	+ 6.4	40.4	7 28	.....	.. ..	....
30	β Geminorum	9	39 23.53	+ 0.44	− 0.47	10 36 2.72	26.822	+ 10.1	40.6	7 39	.....	.. ..	....
	May 28, L.												
31	υ Leonis...........	9	31 58.50	+ 0.08	+ 2.14	39 8 6.42	27.586	+ 45.8	39.8	11 32	.....	.. ....	....
32	β Leonis...........	9	44 6.12	+ 0.23	+ 2.11	23 44 7.55	27.736	+ 24.8	38.9	11 44	.....	.. ..	....
33	π Virginis	9	55 53.72	+ 0.15	+ 2.11	31 42 4.18	26.644	+ 34.8	39.2	11 55	.....	.. ..	....
34	Mars I, N........	9	59 46.01	+ 0.09	+ **2.13**	38 0 4.10	27.800	+ 44.1	**39.4**	11 59 48.23	+ 0.43	+ 0 50 26.4	....
35	Mars II, S	9	59 46.81	+ 0.09	+ **2.13**	38 0 4.10	28.230	+ 44.1	**39.4**	11 59 49.03	− 0.37	+ 0 50 14.2	....
36	6 B. Ursæ Minoris .	6	13 59.65	+19.83	[+ 2.78]	310 38	......	....	....	12 14	.....	.. ..	....
37	η Virginis.	9	14 56.39	+ 0.08	+ 2.15	38 58 1.78	28.486	+ 45.7	39.9	12 14	.....	.. ..	....
38	α Ursæ Minoris S. P.	7	24 12.35	−28.74	[+ 3.02]	307 40	......	....	....	1 23	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
19 6 41	29.816	83.8	85.0
7 28	......	....	85.0
7 39	29.806	84.1	85.0
21 58	29.820	67.6	68.0
23 0	29.837	69.7	70.0
0 3	29.856	72.7	74.0
1 4	29.864	77.4	79.3
20 3 46	29.860	84.3	85.4
4 30	29.856	85.7	87.0
5 10	......	....	88.0
5 20	29.842	87.4	87.8
5 50	29.838	88.1	87.9
22 37	29.882	70.8	72.0
22 52	......	....	72.7
23 0	......	....	72.9
23 23	29.894	72.8	74.7
0 3	29.906	74.0	76.7
0 8	......	....	76.9
21 3 50	29.892	84.1	84.6
5 31	29.868	86.3	87.1
5 50	......	....	85.8
6 32	29.848	86.9	87.0
6 42	......	....	87.1
7 28	......	....	87.3
7 39	29.826	86.9	87.3
28 11 32	29.912	70.0	66.2
12 15	29.908	67.8	65.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4.	Bisections at VI, VII.
9, 22.	Bisections at I, II, III.
10.	Bisections at V, VI, VII.
15, 17.	Bisections at I, II, VI.
19.	Bisections at II, III, IV, V, VI.
19, 21, 24.	Z. D. thread D_1 used.
23.	Bisections at V, VI.
27, 34.	Bisections at II, VI.
28, 35.	Bisections at I, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
9	+ 2.9	+15 50.5	...	+15 53.4
10	+ 2.8	−15 50.5	...	−15 47.7
19	+36 28.2	−15 14.9	...	+21 13.3
22	+ 2.8	−15 49.7	...	−15 46.9
23	+ 2.8	+15 49.7	...	+15 52.5
27	+ 1.9	− 7.8	...	− 5.9
28	+ 1.9	+ 7.8	0.0	+ 9.7
34	+ 6.2	− 6.2	...	0.0
35	+ 6.2	+ 6.2	− 0.2	+ 12.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	June 1, L.		m s	s	s	° ' "	r	' "	"	h m s	s	° ' "	"
1	ε Leonis	9	40 21.01	+ 0.33	+ 0.46	14 38 5.98	27.241	+ 14.8	37.8	9 40	.....	.. ..	....
2	α Leonis	9	3 12.89	+ 0.19	+ 0.52	26 24 5.60	28.559	+ 28.2	38.1	10 3	.....	.. ..	....
3	Moon I, N.......	9	11 8.23	+ 0.14	+ **0.48**	31 38 11.38	27.943	+ 35.0	**37.7**	10 11 8.85	+67.45	+ 7 12 22.4	....
4	γ^1 Leonis	8	14 38.00	+ 0.28	+ 0.46	18 32 9.48	25.535	+ 19.1	37.3	10 14	.....	.. ..	....
	June 2, Br.												
5	ρ Leonis	9	27 43.18	+ 0.16	+ 0.24	29 2 6.98	28.701	+ 31.3	38.4	10 27	.....	.. ..	....
6	46 Leonis Minoris ..	9	47 53.94	+ 0.45	+ 0.16	4 6 6.08	29.551	+ 4.1	39.0	10 47	.....	.. ..	....
7	Moon I, N.......	9	6 2.16	+ 0.09	+ **0.20**	36 4 7.15	27.318	+ 41.2	**38.9**	11 6 2.45	+66.11	+ 2 46 39.5	....
8	υ Leonis	9	32 0.40	+ 0.06	+ 0.21	39 8 6.55	27.532	+ 46.1	39.0	11 32	.....	.. ..	....
9	β Leonis	9	44 7.99	+ 0.20	+ 0.21	23 44 6.82	27.706	+ 25.0	38.0	11 44	.....	.. ..	....
10	Mars I, N	9	3 54.45	+ 0.06	+ **0.21**	38 38 7.98	26.295	+ 45.3	**38.9**	12 3 54.72	+ 0.37	+ 0 13 3.7	....
11	Mars II, S.......	9	3 55.12	+ 0.06	+ **0.21**	38 38 7.98	26.682	+ 45.4	**38.9**	12 3 55.39	− 0.30	+ 0 12 52.6	....
12	6 B. Ursæ Minoris .	7	14 0.08	+19.52	[− 0.28]	310 38	......	....	....	12 14	.....	.. ..	....
13	δ^2 Corvi	9	24 52.74	− 0.11	+ 0.26	54 48 6.85	29.051	+1 20.5	39.9	12 24	.....	.. ..	....
14	31 Comæ Berenices .	9	46 59.77	+ 0.35	+ 0.17	10 46 12.40	29.436	+ 10.9	40.0	12 47	.....	.. ..	....
15	ε Virginis.........	9	57 22.57	+ 0.16	+ 0.21	27 22 5.60	27.626	+ 29.6	38.5	12 57	.....	.. ..	....
16	θ Virginis.........	9	4 57.71	− 0.01	+ 0.20	43 52 7.80	27.024	+ 54.8	38.1	13 4	.....	.. ..	....
17	α Ursæ Minoris S.P.	7	24 18.76	−29.05	[+ 0.71]	307 40	......	....	....	1 23	.....	.. ..	....
	June 2, R.												
18	β Andromedæ	9	4 18.46	+ 0.50	+ 0.06	3 43 59.48	29.604	+ 3.8	37.5	1 4	.....	.. ..	....
19	α Arietis	9	1 42.56	+ 0.31	+ 0.10	15 50 1.88	29.351	+ 16.1	37.2	2 1	.....	.. ..	....
	June 3, R.												
20	Sun I, N.........	9	40 32.49	+ 0.32	+ **0.04**	16 20 3.85	30.682	+ 16.4	**37.9**	4 40 32.85	+68.39	+22 29 30.9	....
21	Sun II, S	9	42 49.28	+ 0.32	+ **0.04**	16 52 4.55	29.728	+ 17.0	**37.9**	4 42 49.64	−68.40	+21 57 56.1	....
22	α Orionis..........	9	49 55.22	+ 0.16	+ 0.09	31 28 3.65	26.608	+ 34.0	39.0	5 49	.....	.. ..	....
23	γ Geminorum	7	32 6.60	+ 0.26	+ 0.04	22 22 4.65	27.737	+ 22.9	36.4	6 32	.....	.. ..	....
24	α^2 Geminorum	9	28 24.79	+ 0.46	− 0.05	6 44 2.05	30.106	+ 6.6	37.9	7 28	.....	.. ..	....
25	β Geminorum	9	39 23.03	+ 0.41	− 0.05	10 36 6.10	26.668	+ 10.4	39.5	7 39	.....	.. ..	....
26	Venus I, N.......	9	45 52.97	+ 0.35	**0.00**	15 16 4.52	26.300	+ 15.2	**37.9**	7 45 53.32	+ 0.63	+23 35 35.8	....
27	Venus II, S......	9	45 53.82	+ 0.35	**0.00**	15 16 4.52	26.898	+ 15.2	**37.9**	7 45 54.17	− 0.22	+23 35 18.9	....
28	τ Leonis	9	22 58.56	+ 0.09	− 0.06	35 28 3.22	26.272	+ 39.8	37.8	11 22	.....	.. ..	....
29	υ Leonis	9	32 0.66	+ 0.05	− 0.05	39 8 2.12	27.661	+ 45.5	37.8	11 32	.....	.. ..	....
30	β Leonis	9	44 8.23	+ 0.21	− 0.05	23 44 4.20	27.791	+ 24.7	37.5	11 44	.....	.. ..	....
31	Moon I, N.......	9	59 11.53	+ 0.03	− **0.06**	40 32 7.15	30.261	+ 48.0	**37.5**	11 59 11.50	+65.23	− 1 42 52.5	....
32	Mars I, N	9	4 49.98	+ 0.05	− **0.06**	38 46 8.28	26.375	+ 45.1	**37.5**	12 4 49.97	+ 0.39	+ 0 5 0.0	....
33	Mars II, S.......	9	4 50.69	+ 0.05	− **0.06**	38 46 8.28	26.758	+ 45.1	**37.5**	12 4 50.68	− 0.32	+ 0 4 49.0	....
34	6 B. Ursæ Minoris .	6	13 58.40	+20.56	[− 0.28]	310 38	......	....	....	12 14	.....	.. ..	....
35	η Virginis.........	9	14 58.54	+ 0.05	− 0.03	38 58 8.75	28.194	+ 45.5	36.8	12 14	.....	.. ..	....
36	θ Virginis.........	9	4 58.02	− 0.01	− 0.12	43 52 4.28	27.156	+ 54.2	37.8	13 4	.....	.. ..	....
37	α Ursæ Minoris S.P.	7	24 19.48	−30.32	[+ 2.06]	307 40	......	....	....	1 23	.....	.. ..	....
	June 3, L.												
38	α Andromedæ	9	3 23.82	+ 0.37	− 0.47	10 18 6.38	27.121	+ 10.4	38.3	0 3	.....	.. ..	....
39	γ Pegasi...........	9	8 15.92	+ 0.19	− 0.48	24 11 55.12	28.098	+ 25.6	35.9	0 8	.....	.. ..	....
40	γ Andromedæ	9	57 57.43	+ 0.60	− 0.54	357 0	......	....	....	1 57	.....	.. ..	....
41	β Persei...........	4	1 52.04	+ 0.57	− 0.66	358 15 57.32	28.775	− 1.6	39.0	3 1	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
1 9 40	30.042	67.3	65.0
10 3	......	....	64.6
10 15	30.044	65.1	64.3
2 10 28	30.064	70.0	68.8
11 6	30.062	68.2	67.2
11 32	......	....	66.1
11 44	30.060	67.0	65.9
12 4	.....	....	65.0
12 25	......	....	64.2
13 5	30.066	64.1	63.0
1 4	30.068	60.9	65.9
2 2	30.070	65.1	66.7
3 4 43	30.048	72.7	73.8
5 50	30.028	74.8	75.7
6 32	30.018	76.1	76.0
7 28	......	....	76.6
7 39	......	....	76.5
7 46	29.996	77.5	76.5
11 23	29.966	72.3	71.7
11 44	......	....	70.1
12 5	......	....	68.8
12 38	29.958	68.5	67.0
13 5	29.960	67.6	66.1
0 3	29.966	59.7	63.0
3 2	30.026	75.9	75.7

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 7, 31.	Bisections at II, III, IV, V, VI.
4.	Bisections at VI, VII.
10, 26, 32.	Bisections at I, VII.
11, 27, 33.	Bisections at II, VI.
20.	Bisections at I, II, III.
21.	Bisections at V, VI, VII.
23.	Bisections at II, VI, VII.
41.	Z. D. thread D_1 used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	' "	' "	"	' "
3	+30 47.1	−16 5.6	...	+14 41.5
7	+34 10.6	−15 54.5	...	+18 16.1
10	+ 6.0	− 5.6	...	+ 0.4
11	+ 6.0	+ 5.6	− 0.1	+ 11.5
20	+ 2.4	−15 47.3	...	−15 44.9
21	+ 2.5	+15 47.4	...	+15 49.9
26	+ 2.3	− 8.5	...	− 6.2
27	+ 2.3	+ 8.5	− 0.1	+ 10.7
31	+37 19.2	−15 43.7	...	+21 35.5
32	+ 6.0	− 5.6	...	+ 0.4
33	+ 6.0	+ 5.6	− 0.2	+ 11.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	June 4, L.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, S.........	9	44 39.13	+ 0.31	— **0.59**	16 46 4.80	26.715	+ 16.7	**38.3**	4 44 38.85	+68.52	+22 5 23.1	....
2	Sun II, N........	9	46 56.17	+ 0.31	— **0.59**	16 14 6.82	27.590	+ 16.1	**38.3**	4 46 55.89	—68.52	+22 36 56.1	....
3	α Orionis..........	9	49 55.91	+ 0.16	— 0.60	31 28 7.22	26.499	+ 33.7	39.2	5 49	.....	.. ..	....
4	α² Geminorum	9	28 25.43	+ 0.44	— 0.68	6 44 8.10	29.920	+ 6.6	38.6	7 28	.....	.. ..	....
5	α Canis Minoris....	9	34 14.42	+ 0.16	— 0.62	33 22 6.95	28.464	+ 36.2	37.1	7 34	.....	.. ..	....
6	β Geminorum	9	39 23.59	+ 0.40	— 0.60	10 36 8.28	26.605	+ 10.3	39.8	7 39	.....	.. ..	....
7	Venus I, N.......	9	50 40.11	+ 0.34	— **0.63**	15 28 6.62	27.172	+ 15.3	**38.3**	7 50 39.82	+ 0.64	+23 23 9.4	....
8	Venus S..........	..	.. ..	....	.....	15 28 6.62	27.728	+ 15.3	**38.3**	.. ..	.....	+23 22 53.3	....
9	β Leonis	9	44 8.82	+ 0.23	— 0.67	23 44 13.18	27.495	+ 24.5	37.9	11 44	.....	.. ..	....
10	π Virginis	9	55 56.45	+ 0.15	— 0.69	31 42 11.88	26.330	+ 34.4	38.1	11 55	.....	.. ..	....
11	o Virginis	9	0 18.33	+ 0.17	— 0.63	29 34 12.70	28.522	+ 31.6	38.9	12 0	.....	.. ..	....
12	Mars I, N........	9	5 47.51	+ 0.09	— **0.66**	38 54 10.88	26.750	+ 44.9	**38.7**	12 5 46.94	+ 0.40	— 0 3 11.9	....
13	Mars II, S	9	5 48.24	+ 0.09	— **0.66**	38 54 10.88	27.102	+ 44.9	**38.7**	12 5 47.67	— 0.33	— 0 3 22.0	....
14	6 B. Ursæ Minoris..	6	14 0.40	+18.69	[— 1.09]	310 38	......	....	....	12 14	.....	.. ..	....
15	η Virginis	9	14 59.03	+ 0.09	— 0.57	38 58 12.30	28.092	+ 45.1	39.0	12 14	.....	.. ..	....
16	δ² Corvi	9	24 53.55	— 0.06	— 0.62	54 48 7.75	29.048	+1 19.0	39.2	12 24	.....	.. ..	....
17	31 Comæ Berenices .	9	47 0.61	+ 0.37	— 0.72	10 46 11.28	29.465	+ 10.7	39.8	12 47	.....	.. ..	....
18	Moon I, N.......	9	51 21.44	+ 0.03	— **0.64**	44 52 11.90	28.255	+ 55.6	**38.7**	12 51 20.83	+64.77	— 6 2 6.5	....
19	ε Virginis	9	57 23.41	+ 0.19	— 0.67	27 22 12.70	27.390	+ 29.0	38.5	12 57	.....	.. ..	....
20	θ Virginis	9	4 58.50	+ 0.04	— 0.66	43 52 10.60	26.954	+ 53.7	37.9	13 4	.....	.. ..	....
21	α Ursæ Minoris S. P.	5	24 19.50	—27.04	[— 0.38]	307 40	......	....	....	1 23	.....	.. ..	....
	June 8, L.												
22	δ Scorpii	9	54 41.61	— 0.14	— 2.42	61 10 9.20	28.171	+1 41.0	38.8	15 54	.....	.. ..	....
23	β¹ Scorpii	9	59 53.51	— 0.11	— 2.48	58 22 9.05	27.818	+1 30.3	39.4	15 59	.....	.. ..	....
24	δ Ophiuchi.........	9	9 21.01	+ 0.05	— 2.47	42 16 10.55	29.664	— 50.7	39.5	16 9	.....	.. ..	....
25	Moon I, N	9	20 20.48	— 0.10	— **2.47**	56 48 10.28	26.561	+1 25.2	**39.6**	16 20 17.91	+65.22	—17 57 45.3	....
26	κ Ophiuchi.........	9	53 9.66	+ 0.18	— 2.49	29 18 12.20	29.710	+ 31.5	39.7	16 53	.....	.. ..	....
27	η Ophiuchi.........	9	4 54.62	— 0.07	— 2.54	54 26 7.92	27.891	+1 18.2	40.4	17 4	.....	.. ..	....
28	θ Ophiuchi	9	16 9.16	— 0.17	— 2.50	63 44 9.10	26.319	+1 52.9	39.6	17 16	.....	.. ..	....
29	b Ophiuchi.........	9	20 32.77	— 0.16	— 2.53	62 54 10.40	28.498	+1 49.0	39.0	17 20	.....	.. ..	....
30	Uranus C, C	9	33 31.67	— 0.16	— **2.52**	62 16 9.68	28.619	+1 46.2	**39.6**	17 33 28.99	.....	—23 27 4.2	....
31	μ Sagittarii........	9	8 3.57	— 0.13	— 2.51	59 54 7.85	28.692	+1 36.3	40.0	18 8	.....	.. ..	....
	June 9, Br.												
32	κ Ophiuchi.........	9	53 10.02	+ 0.12	— 2.78	29 18 10.22	29.842	+ 31.2	41.4	16 53	.....	.. ..	....
33	η Ophiuchi	9	4 54.93	— 0.14	— 2.77	54 26 7.00	28.008	+1 17.5	42.1	17 4	.....	.. ..	....
34	Moon I, N.	9	13 13.37	— 0.17	— **2.77**	57 46 5.98	29.837	+1 27.9	**40.8**	17 13 10.43	+65.13	—18 57 15.9	....
35	Moon II	9	15 23.64	— 0.17	— **2.77**	58 2	......	....	....	17 15 20.70	—65.14	.. ..	....
36	b Ophiuchi.........	9	20 33.14	— 0.23	— 2.82	62 54 10.18	28.598	+1 48.1	40.8	17 20	.....	.. ..	....
37	α Ophiuchi.........	9	30 31.24	+ 0.15	— 2.72	26 12 9.02	29.291	+ 27.4	39.1	17 30	.....	.. ..	....
	June 10, R.												
38	b Ophiuchi.........	9	20 33.49	— 0.21	— 3.18	62 54 1.48	28.845	+1 49.0	40.0	17 20	.....	.. ..	....
39	Uranus C, C	9	33 11.15	— 0.21	— **3.17**	62 16 1.85	28.490	+1 46.1	**40.2**	17 33 7.77	.....	—23 26 52.0	....
40	γ² Sagittarii........	9	59 41.54	— 0.30	— 3.17	69 14 16.52	27.579	+2 26.7	39.5	17 59	.....	.. ..	....
41	Moon II, N	9	7 57.32	— 0.16	— **3.18**	57 52 7.62	26.496	+1 28.9	**40.2**	18 7 53.98	—64.82	—19 1 43.9	....
42	η Serpentis.........	9	16 23.49	+ 0.02	— 3.20	41 46 10.65	26.888	+ 50.0	40.9	18 16	.....	.. ..	....
43	λ Sagittarii	9	22 5.73	— 0.23	— 3.12	64 18 2.58	27.002	+1 55.9	39.4	18 22	.....	.. ..	....
44	1 Aquilæ..........	8	30 1.94	— 0.04	— 3.22	47 8 5.60	29.312	+1 0.4	40.5	18 29	.....	.. ..	....
45	51 H. Cephei S. P ...	9	55 15.94	—13.21	[— 3.53]	306 4	......	....	....	6 54	.....	.. ..	....
46	λ Ursæ Minoris....	9	19 14.94	+36.80	[— 2.06]	309 52	......	....	....	19 19	.....	.. ..	....
47	β Sagittæ	9	36 47.14	+ 0.24	— 3.22	21 36	......	....	....	19 36	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
4 4 47	30.026	78.0	78.8
5 50	30.026	79.6	80.0
7 28	......	....	80.7
7 39	......	....	80.4
7 51	30.024	81.2	80.6
11 44	30.018	76.7	75.1
12 15	30.018	75.1	73.7
12 25	......	....	73.1
13 5	30.020	73.3	71.8
8 15 55	29.710	68.8	67.9
16 53	29.708	67.4	66.1
17 34	......	....	66.2
18 8	29.706	67.2	66.2
9 16 53	29.802	73.0	72.0
17 21	......	....	72.0
17 45	29.786	72.3	71.1
10 17 21	29.804	70.1	68.2
17 33	......	....	67.8
18 8	29.788	69.0	67.3
18 22	......	....	67.0
18 30	29.782	68.4	66.7

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1.	Bisections at I, II, III.
2.	Bisections at V, VI, VII.
7, 12.	Bisections at II, VI.
8, 13.	Bisections at I, VII.
18, 25, 34, 41.	Bisections at II, III, IV, V, VI.
44.	Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 2.5	+15 46.4	...	+15 48.9
2	+ 2.4	—15 46.5	...	—15 44.1
7	+ 2.4	— 8.1	...	— 5.7
8	+ 2.4	+ 8.1	— 0.1	+ 10.4
12	+ 6.0	— 5.1	...	+ 0.9
13	+ 6.0	+ 5.1	— 0.1	+ 11.0
18	+40 4.0	—15 33.3	...	+24 30.7
25	+45 51.4	—15 0.2	...	+30 51.2
30	+ 0.4	....	...	+ 0.4
34	+46 4.3	—14 54.3	...	+31 10.0
39	+ 0.4	....	...	+ 0.4
41	+45 52.2	—14 49.7	...	+31 2.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	π Capricorni	9	21 52.18	− 0.15	− 3.20	57 22 1.88	26.275	+1 27.5	40.0	20 21	.....	.. ..	....
2	ψ Capricorni	9	40 27.26	− 0.23	− 3.20	64 26 4.12	28.044	+1 56.9	41.5	20 40	.....	.. ..	....
3	Saturn I, N	4	46 8.83	− 0.15	− **3.22**	57 22 4.88	29.048	+1 27.5	**40.2**	20 46 5.46	+ 0.58	−18 32 52.3	....
4	Saturn II, S	5	46 9.98	− 0.15	− **3.22**	57 22 4.88	29.622	+1 27.6	**40.2**	20 46 6.61	− 0.57	−18 33 8.9	....
5	ζ Capricorni	9	21 13.57	− 0.20	− 3.24	61 39 50.68	26.231	+1 43.8	40.0	21 21	.....	.. ..	....
	June 11, Br.*												
6	β Arietis	9	49 21.37	+ 0.25	− 3.82	18 30 3.40	29.645	+ 18.9	39.9	1 49	.....	.. ..	....
7	α Arietis	9	1 46.69	+ 0.29	− 3.78	15 50 3.08	29.379	+ 16.0	39.9	2 1	.....	.. ..	....
8	α Ceti	..	.. ..	....	.....	35 8 5.05	27.760	+ 39.3	40.6	2 57	.....	.. ..	....
9	β Persei	6	1 55.42	+ 0.60	− 3.86	358 16 4.58	28.682	− 1.6	40.8	3 1	.....	.. ..	....
	June 12, Br.												
10	Sun I, N	9	17 42.89	+ 0.30	− **3.87**	15 28 6.08	28.785	+ 15.4	**40.3**	5 17 39.32	+68.80	+23 22 26.1	....
11	Sun II	9	20 0.48	+ 0.30	− **3.87**	15 44	......	....	....	5 19 56.91	−68.79	.. ..	....
12	α Orionis	9	49 59.25	+ 0.10	− 3.83	31 28 6.30	26.571	+ 33.9	41.2	5 49	.....	.. ..	....
13	α² Geminorum	9	28 28.68	+ 0.44	− 3.95	6 44 5.10	30.105	+ 6.6	40.7	7 28	.....	.. ..	....
14	β Geminorum	9	39 26.90	+ 0.38	− 3.92	10 36 6.58	26.729	+ 10.4	41.4	7 39	.....	.. ..	....
15	Venus I, N	9	27 52.36	+ 0.28	− **3.92**	17 26 3.85	29.515	+ 17.5	**40.3**	8 27 48.72	+ 0.67	+21 24 5.0	....
16	Venus S	..	.. ..	....	.....	17 26 3.85	30.152	+ 17.5	**40.3**	.. ..	.....	+21 23 47.0	....
17	α Lyncis	9	15 13.00	+ 0.48	− 3.92	4 2 1.78	29.976	+ 4.0	38.2	9 15	.....	.. ..	....
	June 14, Br.												
18	α² Capricorni	9	12 48.26	− 0.18	− 4.93	51 40 3.25	28.784	+1 12.2	39.3	20 12	.....	.. ..	....
19	π Capricorni	9	21 54.11	− 0.24	− 4.94	57 22 3.65	26.078	+1 29.0	38.1	20 21	.....	.. ..	....
20	ε Delphini	9	28 42.13	+ 0.09	− 4.90	27 52 4.00	27.942	+ 30.2	37.4	20 28	.....	.. ..	....
21	α Delphini	9	35 15.29	+ 0.14	− 4.90	23 16 8.15	28.514	+ 24.6	38.5	20 35	.....	.. ..	....
22	Saturn I, S	4	45 35.18	− 0.24	− **4.93**	57 26 5.58	27.055	+1 29.2	**38.3**	20 45 30.01	+ 0.65	−18 35 59.8	....
23	Saturn II, N	5	45 36.47	− 0.24	− **4.93**	57 26 5.58	26.445	+1 29.2	**38.3**	20 45 31.30	− 0.64	−18 35 42.5	....
24	ι Pegasi	9	17 43.24	+ 0.19	− 4.97	19 28 4.05	26.384	+ 20.2	38.1	21 17	.....	.. ..	....
25	Moon II, N	9	28 33.49	− 0.16	− **4.96**	50 4 7.18	27.968	+1 8.2	**38.3**	21 28 28.37	−62.32	−11 14 6.6	....
26	ξ Aquarii	9	32 42.73	− 0.13	− 4.96	47 8 5.00	26.151	+1 1.5	38.1	21 32	.....	.. ..	....
27	μ Capricorni	9	48 7.88	− 0.19	− 4.98	52 50 3.78	28.079	+1 15.3	38.1	21 48	.....	.. ..	....
28	α Aquarii	9	0 55.31	− 0.04	− 4.98	39 38 4.12	27.011	+ 47 3	38.5	22 0	.....	.. ..	....
	June 14, L.												
29	β Arietis	9	49 22.82	+ 0.29	− 5.22	18 30 3.65	29.511	+ 18.9	36.8	1 49	.....	.. ..	....
30	α Arietis	9	1 48.21	+ 0.32	− 5.24	15 50 4.30	29.241	+ 16.0	37.5	2 1	.....	.. ..	....
	June 15, L.												
31	Sun N	..	.. ..	....	.....	15 18 4.50	28.017	+ 15.4	**37.2**	.. ..	.....	+23 32 46.4	....
32	Sun II, S	9	32 28.90	+ 0.32	− **5.27**	15 49 58.45	27.115	+ 15.9	**37.2**	5 32 23.95	−68.93	+23 1 17.2	....
33	α² Geminorum	2	28 29.96	+ 0.44	− 5.23	6 44 3.12	30.015	+ 6.7	38.0	7 28	.....	.. ..	....
34	α Canis Minoris	9	34 19.12	+ 0.12	− 5.31	33 22 2.62	28.550	+ 36.7	36.5	7 34	.....	.. ..	....
35	Venus I, N	9	41 18.12	+ 0.29	− **5.31**	18 20 2.12	27.135	+ 18.4	**37.2**	8 41 13.10	+ 0.68	+20 31 10.7	....
36	Venus S	..	.. ..	....	.....	18 20 2.12	27.770	+ 18.4	**37.2**	.. ..	.....	+20 30 52.5	....
37	α Hydræ	6	22 55.47	− 0.02	− 5.33	47 4 3.30	29.332	+ 59.5	37.4	9 22	.....	.. ..	....
38	α Leonis	9	3 18.60	+ 0.19	− 5.35	26 23 59.50	28.732	+ 27.6	37.1	10 3	.....	.. ..	....
39	γ¹ Leonis	9	14 43.62	+ 0.29	− 5.33	18 32 5.80	25.652	+ 18.6	36.8	10 14	.....	.. ..	....
40	α Aquarii	9	0 55.97	0.00	− 5.65	39 38 1.62	27.082	+ 46.9	37.8	22 0	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
10 20 22	29.753	67.0	65.4
20 46	....	....	65.1
21 21	29.736	66.3	65.0
11 1 49	29.536	61.2	61.0
2 5	....	....	61.8
3 2	29.516	64.5	63.7
12 5 18	29.510	67.1	66.4
5 50	29.500	67.9	68.1
6 41	29.504	69.1	67.9
7 28	....	....	67.2
7 39	29.504	69.2	67.9
8 28	29.490	69.1	67.2
9 15	29.490	68.9	66.7
14 20 13	29.528	54.2	53.3
20 46	29.534	54.1	53.1
21 18	....	....	53.1
22 1	29.550	54.0	53.0
1 49	29.590	58.8	60.0
2 2	....	....	60.9
15 5 32	29.622	64.2	64.7
6 41	29.618	66.0	66.3
7 28	....	....	66.8
7 34	....	....	67.6
8 41	29.606	67.0	68.7
9 23	29.598	68.8	69.7
10 3	....	....	69.3
10 15	29.598	68.8	69.6
22 1	29.580	58.8	57.7

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 15, 22, 36.	Bisections at I, VII.
4, 16, 23, 35.	Bisections at II, VI.
8.	Bisection at VI.
9.	Bisections at I, II, VI.
10.	Bisection at I.
13, 37.	Bisections at VI, VII.
25.	Bisections at II, III, IV, V, VI.
31.	Bisections at I, II, III.
32.	Bisections at V, VI, VII.
33.	Bisections at I, II, VII.
33.	Z. D. thread D_1 used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 0.8	− 8.3	...	− 7.5
4	+ 0.8	+ 8.3	...	+ 9.1
10	+ 2.3	−15 46.5	...	−15 44.2
15	+ 2.8	− 9.1	...	− 6.3
16	+ 2.8	+ 9.1	− 0.2	+ 11.7
22	+ 0.8	+ 8.6	...	+ 9.4
23	+ 0.8	− 8.7	...	− 7.9
25	+41 28.4	−14 48.6	...	+26 39.8
31	+ 2.3	−15 44.5	...	−15 42.2
32	+ 2.4	+15 44.6	...	+15 47.0
35	+ 3.1	− 9.2	...	− 6.1
36	+ 3.1	+ 9.2	− 0.2	+ 12.1

No.	Date, Observer, and Object.	Thds.	Mean Thread.	Inst. Corr.	Clock Corr.	Circle Reading.	Microm. Reading.	Refraction.	Eq. Pt. from Stars.	Apparent R. A.	Misc. Corr.	Apparent Decl.	Misc. Corr.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	θ Aquarii	9	11 50.78	− 0.08	− 5.67	47 6 3.12	27.531	+1 1.0	37.9	22 11	.....	.. ..	....
2	Moon II, N	7	16 25.18	− 0.07	− **5.65**	46 36 6.00	28.535	+ 59.9	**37.6**	22 16 19.46	−62.09	− 7 46 14.0	....
3	π Aquarii	9	20 27.08	+ 0.02	− 5.64	37 58 6.08	25.825	+ 44.2	37.3	22 20	.....	.. ..	....
4	η Aquarii	9	30 29.98	0.00	− 5.63	39 28 3.20	26.159	+ 46.7	37.5	22 30	.....	.. ..	....
	June 15, Br.												
5	α Ceti	9	57 18.67	+ 0.01	− 5.58	35 8 6.55	27.630	+ 39.2	38.7	2 57	.....	.. ..	....
6	β Persei	9	1 57.48	+ 0.50	− 5.70	358 16 3.18	28.666	− 1.6	39.0	3 1	.....	.. ..	....
7	η Tauri	8	41 49.16	+ 0.24	− 5.68	15 2 2.00	29.305	+ 14.9	37.7	3 41	.....	.. ..	....
8	ζ Persei	9	48 7.99	+ 0.35	− 5.63	7 16 2.65	26.654	+ 7.1	39.3	3 48	.....	.. ..	....
9	α Tauri	9	30 27.20	+ 0.14	− 5.61	22 32 1.40	27.912	+ 22.9	37.4	4 30	.....	.. ..	....
	June 16, Br.												
10	Sun I, S	9	34 20.72	+ 0.24	− **5.67**	15 46 10.48	29.578	+ 15.6	**38.3**	5 34 15.29	+68.87	+23 3 56.8	....
11	Sun II, N	9	36 38.47	+ 0.24	− **5.67**	15 14 10.55	30.597	+ 15.1	**38.3**	5 36 33.04	−68.88	+23 35 27.8	....
12	Venus I, N	9	45 42.62	+ 0.24	− **5.71**	18 38 10.68	28.015	+ 18.4	**38.3**	8 45 37.15	+ 0.68	+20 12 38.1	....
13	Venus S	..	.. ..	....	.....	18 38 10.68	28.688	+ 18.4	**38.3**	.. ..	.....	+20 12 19.0	....
14	α Lyncis	9	15 14.82	+ 0.44	− 5.74	4 2 11.55	29.599	+ 3.9	37.0	9 15	.....	.. ..	....
15	α Hydræ	9	22 55.86	− 0.04	− 5.71	47 4 11.78	29.105	+ 58.7	38.5	9 22	.....	.. ..	....
16	ε Leonis	9	40 27.11	+ 0.30	− 5.76	14 38 8.42	27.198	+ 14.3	38.7	9 40	.....	.. ..	....
17	α Leonis	9	3 18.95	+ 0.17	− 5.69	26 24 9.78	28.429	+ 27.1	38.3	10 3	.....	.. ..	....
	June 17, R.												
18	φ Aquarii	9	9 26.16	− 0.06	− 6.36	45 24 2.08	28.455	+ 58.3	38.7	23 9	.....	.. ..	....
19	Jupiter I, N	8	33 31.73	− 0.03	− **6.40**	43 0 1.50	27.290	+ 53.6	**38.5**	23 33 25.30	+ 1.34	− 4 9 26.8	....
20	Jupiter II, S	8	33 34.40	− 0.03	− **6.40**	43 0 1.50	28.605	+ 53.6	**38.5**	23 33 27.97	− 1.33	− 4 10 4.3	....
21	Moon II, N	9	52 33.62	+ 0.02	− **6.40**	38 42 0.58	27.698	+ 46.0	**38.5**	23 52 27.24	−62.95	+ 0 8 30.0	....
22	α Andromedæ	9	3 30.26	+ 0.39	− 6.47	10 18 2.80	27.221	+ 10.5	39.7	0 3	.....	.. ..	....
23	γ Pegasi	9	8 22.24	+ 0.20	− 6.38	24 12 1.42	27.826	+ 25.8	37.0	0 8	.....	.. ..	....
	June 17, L.												
24	β Arietis	9	49 24.34	+ 0.28	− 6.64	18 30 0.95	29.629	+ 19.0	37.9	1 49	.....	.. ..	....
25	α Arietis	9	1 49.73	+ 0.31	− 6.66	15 50 0.80	29.339	+ 16.1	37.1	2 1	.....	.. ..	....
26	α Ceti	9	57 19.70	+ 0.08	− 6.63	35 8 5.40	27.614	+ 39.7	37.9	2 57	.....	.. ..	....
27	ζ Persei	9	48 9.06	+ 0.42	− 6.72	7 16 7.90	26.468	+ 7.2	39.3	3 48	.....	.. ..	....
	June 18, L.												
28	Sun I, S	9	42 40.63	+ 0.30	− **6.72**	15 42 6.60	29.622	+ 15.7	**38.1**	5 42 34.21	+68.89	+23 7 59.2	....
29	Sun II, N	9	44 58.42	+ 0.30	− **6.72**	15 10 4.72	30.748	+ 15.2	**38.1**	5 44 52.00	−68.90	+23 39 29.0	....
30	α² Geminorum	9	28 31.56	+ 0.41	− 6.80	6 44 5.52	30.040	+ 6.6	38.6	7 28	.....	.. ..	....
31	β Geminorum	9	39 29.72	+ 0.36	− 6.73	10 36 7.95	26.624	+ 10.4	39.5	7 39	.....	.. ..	....
32	Venus I, S	9	54 25.58	+ 0.26	− **6.78**	19 16 6.95	29.582	+ 19.4	**38.1**	8 54 19.06	+ 0.69	+19 33 56.1	....
33	Venus N	..	.. ..	....	.....	19 16 6.95	28.930	+ 19.4	**38.1**	.. ..	.....	+19 34 14.5	....
34	α Lyncis	9	15 15.80	+ 0.46	− 6.76	4 2 6.15	29.779	+ 4.0	36.7	9 15	.....	.. ..	....
35	ε Leonis	9	40 28.09	+ 0.32	− 6.78	14 38 4.65	27.292	+ 14.5	37.8	9 40	.....	.. ..	....
	June 18, Br.												
36	α Ceti	9	57 20.11	+ 0.02	− 6.96	35 8 8.45	27.538	+ 39.1	38.4	2 57	.....	.. ..	....
37	β Persei	9	1 58.82	+ 0.53	− 6.98	358 16 6.02	28.560	− 1.6	38.8	3 1	.....	.. ..	....

Time. d	h	m	Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
15	22	30	29.586	58.6	57.7
	2	38	29.640	65.0	67.1
	3	2	29.648	67.6	68.9
	3	42	......	....	70.3
	4	30	29.658	72.3	72.8
16	5	37	29.654	73.5	74.0
	8	46	29.624	77.0	77.6
	9	15	......	....	77.1
	9	23	29.618	77.1	77.2
	9	40	......	....	77.8
	10	3	29.608	78.0	78.1
17	23	9	29.708	55.5	52.7
	23	34	......	....	53.0
	23	53	......	....	53.7
	0	4	......	...	54.1
	0	19	29.710	55.7	55.0
	1	49	29.744	59.0	60.0
	2	2	......	....	61.0
	2	57	29.762	62.8	63.3
	3	48	29.774	68.8	66.0
18	5	45	29.770	69.2	69.1
	7	29	29.758	71.6	71.1
	7	39	......	....	71.0
	8	54	29.756	73.5	72.3
	9	15	......	....	72.4
	9	40	29.752	73.8	73.0
	2	57	29.708	67.8	69.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

2.	Bisections at II, III, IV, V, VI.
10, 28.	Bisections at I, II, III.
11, 29.	Bisections at V, VI, VII.
12, 19, 33.	Bisections at I, VII.
13, 20, 32.	Bisections at II, VI.
21.	Bisections at II, III, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+39 32.2	−14 54.1	...	+24 38.1
10	+ 2.3	+15 45.5	...	+15 47.8
11	+ 2.3	−15 45.5	...	−15 43.2
12	+ 3.2	− 9.7	...	− 6.5
13	+ 3.2	+ 9.7	− 0.3	+ 12.6
19	+ 1.2	− 18.8	...	− 17.6
20	+ 1.2	+ 18.7	...	+ 19.9
21	+34 43.5	−15 13.3	...	+19 30.2
28	+ 2.3	+15 44.9	...	+15 47.2
29	+ 2.3	−15 44.9	...	−15 42.6
32	+ 3.3	+ 9.3	− 0.2	+ 12.4
33	+ 3.3	− 9.3	...	− 6.0

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Tauri	6	41 50.58	+ 0.26	− 7.05	15 2 4.70	29.112	+ 14.9	37.7	3 41	.....	.. ..	....
2	α Tauri	9	30 28.64	+ 0.17	− 7.03	22 32 2.28	27.865	+ 22.9	37.2	4 30	.....	.. ..	....
	June 19, Br.												
3	Sun I, N	9	46 50.44	+ 0.26	− **7.06**	15 10 4.82	27.727	+ 14.9	**38.4**	5 46 43.64	+68.98	+23 40 56.0	....
4	Sun II, S........	9	49 8.39	+ 0.26	− **7.06**	15 42 7.88	26.560	+ 15.4	**38.4**	5 49 1.59	−68.97	+23 9 25.3	....
5	α^2 Geminorum	9	28 31.87	+ 0.39	− 7.09	6 44 5.98	29.992	+ 6.5	40.0	7 28	.....	.. ..	...
6	Venus I, S.......	9	58 43.83	+ 0.23	− **7.14**	19 36 5.40	29.230	+ 19.5	**38.9**	8 58 36.92	+ 0.70	+19 14 8.2	....
7	Venus N	..	.. ..	....	.....	19 36 5.40	28.552	+ 19.5	**38.9**	.. ..	.....	+19 14 27.6	....
8	ε Leonis	9	40 28.44	+ 0.29	− 7.11	14 38 5.75	27.305	+ 14.3	39.1	9 40	.....	.. ..	....
9	γ^1 Leonis	5	14 45.53	+ 0.25	− 7.24	18 32 7.38	25.554	+ 18.3	37.7	10 14	.....	.. ..	....
	June 21, L.												
10	α Ceti............	9	57 21.46	+ 0.14	− 8.36	35 8 6.62	27.485	+ 39.2	38.4	2 57	.....	.. ..	....
11	η Tauri	9	41 51.92	+ 0.38	− 8.44	15 2 6.88	29.079	+ 14.9	38.8	3 41	.....	.. ..	....
12	α Tauri	9	30 29.92	+ 0.29	− 8.37	22 32 8.75	27.620	+ 23.0	37.2	4 30	.....	.. ..	....
13	β Orionis..........	9	10 1.14	+ 0.03	− 8.42	47 10 8.20	25.700	+ 59.5	37.9	5 9	.....	.. ..	....
	June 22, L.												
14	Sun I, N	9	59 20.66	+ 0.38	− **8.40**	15 8 7.15	28.258	+ 14.9	**38.4**	5 59 12.64	+68.96	+23 42 38.6	....
15	Sun II, S........	9	1 38.58	+ 0.38	− **8.40**	15 40 9.35	27.083	+ 15.5	**38.4**	6 1 30.56	−68.96	+23 11 8.8	....
16	α^2 Geminorum	4	28 33.03	+ 0.50	− 8.35	6 44	......	....	....	7 28	.....	.. ..	....
17	β Geminorum	9	39 31.34	+ 0.45	− 8.44	10 36 12.45	26.485	+ 10.3	39.8	7 39	.....	.. ..	....
	June 23, Br.												
18	β Lyræ............	9	46 41.24	+ 0.39	[− 8.81]	5 36	......	....	....	18 46	.....	.. ..	....
19	51 H. Cephei s. p...	7	55 21.31	−13.33	[− 9.40]	306 4	......	....	....	6 54	.....	.. ..	....
20	ζ Aquilæ..........	9	1 8.71	+ 0.13	[− 8.84]	25 8	......	....	....	19 1	.....	.. ..	....
	June 29, L.												
21	η Ophiuchi........	9	5 10.05	− 0.12	−17.78	54 26 5.85	27.961	+1 18.0	40.8	17 4	.....	.. ..	....
22	θ Ophiuchi........	9	16 24.66	− 0.23	−17.76	63 44 5.70	26.469	+1 52.7	39.9	17 16	.....	.. ..	....
23	b Ophiuchi........	9	20 48.29	− 0.22	−17.81	62 54 8.22	28.598	+1 48.8	39.3	17 20	.....	.. ..	....
24	Uranus C, C	9	30 5.49	− 0.21	−**17.80**	62 14 6.70	28.119	+1 45.8	**40.2**	17 29 47.48	.....	−23 24 46.0	....
25	μ Sagittarii........	9	8 19.22	− 0.18	−17.83	59 54 8.40	28.691	+1 36.3	41.0	18 8	.....	.. ..	....
26	51 H. Cephei s. p...	7	55 30.03	−13.40	[−17.71]	306 4	......	....	....	6 54	.....	.. ..	....
27	λ Ursæ Minoris....	5	19 33.94	+37.38	[−17.75]	309 52	......		....	19 19	.....	.. ..	....
	June 29, Br.												
28	α Tauri	9	30 39.68	+ 0.18	−17.86	22 32 5.85	27.799	+ 23.1	39.9	4 30	.....	.. ..	....
29	β Orionis..........	9	10 10.73	− 0.08	−17.78	47 8 7.52	29.946	+ 59.5	39.7	5 9	.....	.. ..	....
30	β Tauri	8	20 27.87	+ 0.35	−17.91	10 20	......	....	....	5 20	.....	.. ..	....
	June 30, Br.												
31	Sun I, S.........	9	32 44.91	+ 0.28	−**17.87**	15 52 3.12	30.415	+ 15.6	**40.0**	6 32 27.32	+68.82	+22 57 42.0	....
32	Sun II, N	9	35 2.54	+ 0.28	−**17.87**	15 20 9.32	31.258	+ 15.0	**40.0**	6 34 44.95	−68.81	+23 29 12.0	....
33	α Canis Minoris ...	9	34 31.74	+ 0.10	−17.87	33 22 10.02	28.388	+ 35.8	39.6	7 34	.....	.. ..	....
34	β Geminorum	9	39 41.02	+ 0.35	−17.98	10 36 10.08	26.581	+ 10.2	42.1	7 39	.....	.. ..	....
35	α Lyncis	9	15 26.93	+ 0.45	−17.96	4 2 6.15	29.766	+ 3.9	37.8	9 15	.....	.. ..	....
36	α Hydræ..........	9	23 7.87	− 0.02	−17.82	47 4 7.05	29.311	+ 58.2	40.7	9 22	.....	.. ..	....
37	Venus I, N	9	43 48.53	+ 0.21	−**17.91**	23 38 7.32	26.791	+ 23.7	**40.0**	9 43 30.83	+ 0.76	+15 13 12.8	....
38	α Leonis	9	3 31.00	+ 0.18	−17.86	26 24 7.75	28.551	+ 27.0	40.1	10 3	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
18 3 42	......	....	72.2
4 30	29.714	74.3	74.4
19 5 47	29.696	75.8	76.5
7 29	29.672	77.0	77.1
8 59	29.654	78.2	78.6
9 40	29.644	78.8	78.9
10 15	29.636	78.3	77.8
21 2 57	29.734	68.8	69.0
3 42	29.728	71.7	71.4
4 30	29.732	73.7	73.0
5 10	29.732	74.7	73.7
22 5 59	29.714	75.2	75.0
7 40	29.684	76.3	75.1
29 17 5	29.744	69.8	67.7
17 21	......	....	67.7
18 8	29.746	69.0	66.8
4 31	29.834	74.3	71.8
5 10	29.838	75.2	75.1
5 20	......	....	76.0
30 6 35	29.830	79.2	81.2
7 35	......	....	84.0
7 40	29.830	82.1	84.1
9 15	......	....	85.0
9 23	29.796	85.0	85.1
9 44	29.800	85.3	85.0
10 4	29.802	85.0	83.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 5, 9, 10, 11, 34, 35.	Z. D. thread D_1 used.
1, 10, 12.	Bisections at VI, VII.
3, 14, 31.	Bisections at I, II, III.
4, 15, 32.	Bisections at V, VI, VII.
5.	Bisections at I, VI, VII.
6.	Bisections at I, VI.
7.	Bisections at II, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 2.3	−15 45.3	...	−15 43.0
4	+ 2.3	+15 45.4	...	+15 47.7
6	+ 3.4	+ 9.9	− 0.4	+ 12.9
7	+ 3.4	− 9.9	...	− 6.5
14	+ 2.3	−15 44.9	...	−15 42.6
15	+ 2.3	+15 44.9	...	+15 47.2
24	+ 0.4	....	...	+ 0.4
31	+ 2.4	+15 45.0	...	+15 47.4
32	+ 2.3	−15 44.9	...	−15 42.6
37	+ 4.5	− 11.0	...	− 6.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Ophiuchi	9	5 10.32	− 0.13	−18.04	54 26 8.22	27.935	+1 17.0	41.4	17 4	.....	.. ..	....
2	θ Ophiuchi	9	16 24.92	− 0.23	−18.02	63 44 7.15	26.468	+1 51.4	40.0	17 16	.....	.. ..	....
3	b Ophiuchi	9	20 48.52	− 0.22	−18.04	62 54 9.90	28.625	+1 47.6	40.6	17 20	.....	.. ..	....
4	Uranus C, C	9	29 55.53	− 0.21	**−18.05**	62 14 9.58	27.820	+1 44.6	**40.6**	17 29 37.27	.....	−23 24 38.7	....
5	μ Sagittarii	9	8 19.49	− 0.19	−18.08	59 54 9.80	28.656	+1 35.4	40.5	18 8	.....	.. ..	....
6	β Lyræ	9	46 50.59	+ 0.41	−18.11	5 36	......	....	....	18 46	.....	.. ..	....
7	51 H. Cephei S. P.	7	55 30.24	−12.50	[−18.80]	306 4	......	....	....	6 54	.....	.. ..	....
8	ζ Aquilæ	9	1 17.97	+ 0.17	−18.03	25 8	......	....	....	19 1	.....	.. ..	....
9	λ Ursæ Minoris	6	19 35.97	+34.81	[−17.11]	309 52	......	....	....	19 19	.....	.. ..	....
	June 30, R.												
10	β Trianguli	..	.. ..	....	.....	4 20 4.38	26.640	+ 4.2	39.4	2 3	.....	.. ..	....
11	η Tauri	9	42 1.86	+ 0.33	−18.10	15 2 2.50	29.295	+ 14.7	38.5	3 41	.....	.. ..	....
12	α Tauri	9	30 39.97	+ 0.24	−18.19	22 32 6.00	27.772	+ 22.5	38.7	4 30	.....	.. ..	....
13	Mercury II, C.	9	5 15.93	+ 0.29	**−18.13**	18 40 5.62	27.525	+ 18.3	**39.8**	5 4 58.09	− 0.27	+20 10 58.7	....
14	β Orionis	9	10 10.98	− 0.02	−18.08	47 10 3.90	25.891	+ 58.3	39.5	5 9	.....	.. ..	....
15	β Tauri	9	20 28.08	+ 0.40	−18.15	10 20 5.75	26.941	+ 9.9	39.7	5 20	.....	.. ..	....
	July 1, R.												
16	Sun I, S.	9	36 53.68	+ 0.33	**−18.15**	15 56 8.30	29.288	+ 15.4	**39.8**	6 36 35.86	+68.77	+22 54 8.9	....
17	Sun II, N.	9	39 11.22	+ 0.33	**−18.15**	15 24 6.28	30.397	+ 14.9	**39.8**	6 38 53.40	−68.77	+23 25 39.5	....
18	β Geminorum	9	39 41.18	+ 0.40	−18.19	10 36 4.38	26.839	+ 10.1	41.2	7 39	.....	.. ..	....
19	α Lyncis	9	15 27.06	+ 0.50	−18.15	4 2 3.10	29.985	+ 3.9	38.4	9 15	.....	.. ..	....
20	α Hydræ	9	23 8.18	+ 0.02	−18.18	47 4 5.38	29.372	+ 57.6	40.3	9 22	.....	.. ..	....
21	Venus I	9	47 40.31	+ 0.25	**−18.20**	24 2	......	....	....	9 47 22.36	+ 0.76	.. ..	....
22	α Leonis	9	3 31.26	+ 0.22	−18.16	26 24 6.72	28.606	+ 26.6	40.4	10 3	.....	.. ..	....
23	γ^1 Leonis	9	14 56.32	+ 0.31	−18.20	18 32 4.00	25.832	+ 18.0	39.8	10 14	.....	.. ..	....
24	Moon I, N.	9	35 44.41	+ 0.07	**−18.31**	43 20 7.50	28.136	+ 50.7	**39.8**	12 35 26.17	+65.34	− 4 29 52.7	....
25	Mars I, C.	9	41 43.89	+ 0.07	**−18.32**	43 28 8.95	29.904	+ 51.0	**39.8**	12 41 25.64	+ 0.31	− 4 38 44.8	....
26	α Canum Venat.	9	51 48.55	+ 0.56	−18.36	0 0 7.02	28.900	+ 0.1	40.2	12 51	.....	.. ..	....
27	ε Virginis	9	57 40.75	+ 0.23	−18.33	27 22 5.42	27.648	+ 27.9	39.9	12 57	.....	.. ..	....
28	α Virginis	9	20 25.39	+ 0.02	−18.30	49 30 4.18	27.000	+1 3.1	41.0	13 20	.....	.. ..	....
	July 1, L.												
29	η Tauri	9	42 2.54	+ 0.35	−18.77	15 2 4.15	29.241	+ 14.5	38.5	3 41	.....	.. ..	....
30	ζ Persei	9	48 21.47	+ 0.46	−18.80	7 16 9.20	26.460	+ 6.9	40.3	3 48	.....	.. ..	....
31	α Tauri	9	30 40.64	+ 0.27	−18.86	22 32 9.60	27.622	+ 22.4	38.0	4 30	.....	.. ..	....
32	Mercury C, C	9	10 18.05	+ 0.33	**−18.81**	18 22 8.90	27.159	+ 17.9	**39.5**	5 9 59.57	− 0.11	+20 29 6.0	....
33	β Tauri	9	20 28.70	+ 0.44	−18.79	10 20 8.72	26.849	+ 9.8	40.0	5 20	.....	.. ..	....
	July 2, L.												
34	Sun I, S.	9	41 2.54	+ 0.38	**−18.83**	16 0 10.28	29.083	+ 15.4	**40.1**	6 40 44.09	+68.77	+22 50 13.1	....
35	Sun II, N.	9	43 20.07	+ 0.38	**−18.83**	15 28 8.18	30.247	+ 14.9	**40.1**	6 43 1.62	−68.76	+23 21 42.2	....
36	β Geminorum	8	39 41.84	+ 0.45	−18.89	10 36 16.48	26.438	+ 10.0	41.8	7 39	.....	.. ..	....
37	α Hydræ	9	23 8.76	+ 0.06	−18.80	47 4 9.15	29.261	+ 57.3	40.8	9 22	.....	.. ..	....
38	ε Leonis	9	40 40.05	+ 0.41	−18.94	14 38 9.20	27.195	+ 14.0	41.2	9 40	.....	.. ..	....
39	α Leonis	9	3 31.84	+ 0.28	−18.81	26 24 8.80	28.535	+ 26.5	40.3	10 3	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
30 17 5	29.786	75.1	74.9
17 21	......	....	74.1
17 30	......	....	74.0
18 8	29.780	73.2	72.1
2 4	29.790	72.8	76.9
3 42	29.810	79.0	81.3
4 31	29.809	82.7	84.0
5 5	......	....	84.8
5 10	29.808	84.8	85.1
5 20	......	....	85.2
1 6 39	29.788	86.4	87.0
7 40	29.778	88.0	88.5
9 15	......	....	88.0
9 23	29.745	89.2	88.6
10 4	......	....	89.0
10 15	29.733	90.0	89.1
12 36	29.714	88.0	86.6
12 52	......	....	85.8
12 58	.. ..	....	85.6
13 4	29.713	87.0	....
13 20	29.710	86.2	84.9
3 42	29.740	82.3	86.0
3 48	......	....	86.2
4 31	29.758	87.3	87.3
5 10	29.760	87.7	88.2
5 20	......	...	88.3
2 6 43	29.760	89.7	90.2
7 40	29.750	90.8	91.2
9 23	29.760	92.7	92.1
9 41	......	....	91.3
10 4	29.760	92.8	92.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

10. Bisections at VI, VII.
16, 34. Bisections at I, II, III.
17, 35. Bisections at V, VI, VII.
19. Bisections at I, II.
24. Bisections at II, III, IV, V, VI.
38. Z. D. thread D_1 used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 0.4	....	...	+ 0.4
13	+ 3.1	....	− 0.3	+ 2.8
16	+ 2.4	+15 45.3	...	+15 47.7
17	+ 2.3	−15 45.2	...	−15 42.9
24	+39 23.7	−15 43.2	...	+23 40.5
25	+ 5.4	....	− 0.1	+ 5.3
32	+ 2.9	....	− 0.3	+ 2.6
34	+ 2.4	+15 44.5	...	+15 46.9
35	+ 2.3	−15 44.5	...	−15 42.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	July 2, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Tauri	8	42 2.98	+ 0.27	−19. 10	15 2 9.50	28.975	+ 14.6	38. 8	3 41	.....	.. ..	....
2	ζ Persei	9	48 21.87	+ 0.38	−19. 09	7 16 17.00	26.215	+ 6.9	41. 1	3 48	.....	.. ..	....
3	α Tauri	9	30 40.98	+ 0.17	−19. 08	22 32 2.48	27.896	+ 22.5	38. 9	4 30	.....	.. ..	....
4	β Orionis	9	10 12.15	− 0.10	−19. 13	47 10 2.00	25.998	+ 58.2	41. 0	5 9	.....	.. ..	....
5	Mercury C, C	9	15 38.02	+ 0.22	**−19.11**	18 4 2.65	27.064	+ 17.6	**40.0**	5 15 19.13	− 0.11	+20 47 15.7	....
	July 3, Br.												
6	Sun I, N	9	45 11.01	+ 0.26	**−19.13**	15 32 4.10	30.993	+ 15.0	**40.0**	6 44 52.14	+68.70	+23 17 25.1	....
7	Sun II, S	9	47 28.40	+ 0.26	**−19.13**	16 4 2.55	30.028	+ 15.5	**40.0**	6 47 9.53	−68.69	+22 45 53.4	....
8	α Lyncis	8	15 28.14	+ 0.43	−19. 17	4 2 5.70	29.861	+ 3.8	39. 8	9 15	.....	.. ..	....
9	α Hydræ	8	23 9.23	− 0.06	−19. 16	47 4 8.68	29.255	+ 57.5	40. 3	9 22	.....	.. ..	....
10	ε Leonis	..	.. ..	....	.....	14 38 10.28	27.205	+ 14.0	40. 0	9 40	.....	.. ..	....
11	Venus I, N	9	55 17.06	+ 0.17	**−19.16**	24 50 9.22	26.380	+ 24.8	**40.0**	9 54 58.07	+ 0.78	+14 1 21.5	....
12	α Leonis	9	3 32.34	+ 0.16	−19. 19	26 24 10.90	28.449	+ 26.6	40. 1	10 3	.....	.. ..	....
13	γ^1 Leonis	9	14 57.31	+ 0.24	−19. 13	18 32 9.88	25.630	+ 18.0	39. 9	10 14	.....	.. ..	....
	July 6, L.												
14	β Libræ	9	12 10.61	− 0.08	−20. 61	47 52 3.05	27.219	+1 0.7	39. 6	15 11	.....	.. ..	....
15	B. D.−3° 3809...	9	33 35.52	− 0.03	**−20.65**	42 32 10.10	34.034	+ 50.6	**39.6**	15 33 14.84	− 2.77	− 3 44 43.5	−1.6
16	B. D.−3° 3818...	5	38 43.74	− 0.03	**−20.65**	42 32 8.88	19.460	+ 50.4	**39.6**	15 38 23.06	− 2.79	− 3 37 47.1	−2.0
17	B. D.−3° 3824...	6	41 48.72	− 0.03	**−20.65**	42 32 8.65	35.498	+ 50.6	**39.6**	15 41 28.04	− 2.80	− 3 45 24.0	−2.2
18	ε Coronæ Borealis..	9	53 57.03	+ 0.30	−20. 68	11 42 11.75	26.040	+ 11.5	38. 9	15 53	.....	.. ..	....
19	β^1 Scorpii	9	0 11.80	− 0.19	−20. 70	58 22 8.62	27.851	+1 29.3	39. 1	15 59	.....	.. ..	....
20	δ Ophiuchi	9	9 39.23	− 0.03	−20. 61	42 16 9.18	29.650	+ 50.2	39. 7	16 9	.....	.. ..	....
21	ζ Ophiuchi	9	32 12.84	− 0.10	−20. 62	49 12 9.70	28.230	+1 4.0	39. 8	16 31	.....	.. ..	....
22	κ Ophiuchi	9	53 27.94	+ 0.10	−20. 61	29 18 8.05	29.726	+ 31.1	40. 3	16 53	.....	.. ..	....
23	Moon I, N	9	56 27.72	− 0.18	**−20.65**	57 30 7.15	27.160	+1 26.6	**39.6**	16 56 6.89	+65.00	−18 40 0.6	....
24	η Ophiuchi	9	5 12.97	− 0.15	−20. 66	54 26 5.98	27.968	+1 17.3	40. 6	17 4	.....	.. ..	....
25	B. D.−18° 4503..	9	16 19.94	− 0.18	**−20.64**	57 22 1.38	30.660	+1 26.4	**39.6**	17 15 59.12	− 3.43	−18 33 34.0	−6.5
26	B. D.−18° 4507..	9	17 5.40	− 0.18	**−20.64**	57 22 1.38	29.000	+1 26.3	**39.6**	17 16 44.58	− 3.43	−18 32 47.2	−6.5
27	b Ophiuchi	9	20 51.16	− 0.24	−20. 64	62 54 3.18	28.798	+1 47.9	38. 9	17 20	.....	.. ..	....
28	Uranus C, C	9	28 58.65	− 0.23	**−20.64**	62 14 3.72	26.540	+1 44.8	**39.6**	17 28 37.78	.....	−23 23 57.6	....
29	γ^2 Sagittarii	9	59 59.38	− 0.32	−20. 69	69 14 7.20	27.996	+2 25.3	39. 6	17 59	.....	.. ..	....
	July 6, Br.												
30	η Tauri	9	42 4.74	+ 0.23	−20. 71	15 2 6.28	29.146	+ 14.9	38. 6	3 41	.....	.. ..	....
31	ζ Persei	9	48 23.67	+ 0.34	−20. 73	7 16 7.85	26.484	+ 7.1	40. 0	3 48	.....	.. ..	....
32	α Tauri	9	30 42.78	+ 0.13	−20. 75	22 32 7.68	27.694	+ 23.0	39. 1	4 30	.....	.. ..	....
33	ι Aurigæ	7	51 1.96	+ 0.35	−20. 76	5 50 5.52	28.732	+ 5.7	39. 7	4 50	.....	.. ..	....
34	β Orionis	9	10 13.86	− 0.13	−20. 74	47 10 8.45	25.655	+ 59.6	39. 7	5 9	.....	.. ..	....
35	Mercury II, C	9	39 57.69	+ 0.19	**−20.74**	16 54 7.98	27.992	+ 16.8	**39.5**	5 39 37.14	− 0.23	+21 56 44.3	....
	July 7, Br.												
36	Sun I, S	9	1 41.51	+ 0.20	**−20.74**	16 26 7.88	28.460	+ 16.3	**39.5**	7 1 20.97	+68.51	+22 24 31.7	....
37	Sun II, N	9	3 58.53	+ 0.21	**−20.74**	15 54 3.20	29.648	+ 15.8	**39.5**	7 3 38.00	−68.52	+22 56 2.8	....
38	α Lyncis	9	15 29.79	+ 0.38	−20. 78	4 2 2.85	30.016	+ 3.9	38. 9	9 15	.....	.. ..	....
39	α Hydræ	9	23 10.80	− 0.10	−20. 70	47 4 5.95	29.255	+ 59.0	39. 7	9 22	.....	.. ..	....
40	ε Leonis	9	40 42.03	+ 0.24	−20. 76	14 38 4.65	27.379	+ 14.4	39. 9	9 40	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
2	3	42	29.876	85.0	86.1
	3	48	....	....	86.5
	4	31	29.886	88.9	87.2
	5	10	....	....	87.9
	5	16	29.888	89.0	88.0
3	6	47	29.871	90.6	90.1
	9	15	....	....	92.3
	9	23	29.826	93.0	91.8
	9	41	....	....	92.1
	9	55	29.820	93.0	91.3
	10	4	29.818	92.8	91.0
	10	15	29.816	92.8	91.6
6	15	12	29.938	81.4	79.3
	15	54	....	....	78.1
	16	10	29.950	79.4	77.3
	16	32	....	....	76.4
	16	56	....	....	76.3
	17	29	....	....	75.6
	18	0	29.954	76.8	75.2
	3	42	30.006	74.7	76.6
	3	48	....	....	76.1
	4	31	30.020	77.1	76.6
	4	51	....	....	77.3
	5	10	30.034	80.8	77.4
	5	40	30.030	79.8	78.1
7	7	4	30.020	80.2	79.3
	9	15	....	....	80.9
	9	23	29.996	82.0	81.0
	9	41	....	....	81.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 8.	Z. D. thread D_1 used.
6, 36.	Bisections at I, II, III.
7, 37.	Bisections at V, VI, VII.
9.	Bisections at I, II, VI.
10, 25.	Bisections at I, II.
16, 17, 26, 33.	Bisections at VI, VII.
23.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 2.8	....	− 0.3	+ 2.5
6	+ 2.3	−15 45.8	...	−15 43.5
7	+ 2.4	+15 45.8	...	+15 48.2
11	+ 4.9	− 11.3	...	− 6.4
23	+45 54.8	−14 53.9	...	+31 0.9
28	+ 0.4	....	...	+ 0.4
35	+ 2.4	....	− 0.1	+ 2.3
36	+ 2.4	+15 45.5	...	+15 47.9
37	+ 2.4	−15 45.6	...	−15 43.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Leonis	2	3 33.90	+ 0.11	−20.73	26 24 4.50	28.658	+ 27.3	40.2	10 3	.....	.. ..	....
2	Venus I, N	9	10 1.68	+ 0.12	**−20.75**	26 28 7.78	27.956	+ 27.3	**39.5**	10 9 41.05	+ 0.80	+12 22 35.1	....
3	γ^1 Leonis	9	14 58.93	+ 0.20	−20.74	18 32 8.50	25.645	+ 18.4	39.4	10 14	.....	.. ..	....
4	β Libræ..........	9	12 10.85	− 0.13	−20.80	47 52 7.42	27.031	+1 1.0	39.0	15 11	.....	.. ..	....
5	B. D. − 3° 3809...	9	33 35.78	− 0.08	**−20.82**	42 34 10.02	29.852	+ 50.9	**39.9**	15 33 14.88	− 2.76	− 3 44 44.0	−1.7
6	B. D. − 3° 3818...	9	38 43.92	− 0.08	**−20.82**	42 28 11.95	27.773	+ 50.7	**39.9**	15 38 23.02	− 2.78	− 3 37 46.5	−2.1
7	B. D. − 3° 3824...	9	41 48.93	− 0.08	**−20.82**	42 36 10.95	27.018	+ 51.0	**39.9**	15 41 28.03	− 2.80	− 3 45 24.5	−2.2
8	ε Serpentis........	9	46 22.27	0.00	−20.81	34 4 12.20	28.199	+ 37.5	41.1	15 46	.....	.. ..	....
9	ε Coronæ Borealis .	9	53 57.29	+ 0.25	−20.90	11 42 7.08	26.200	+ 11.5	39.0	15 53	.....	.. ..	....
10	β^1 Scorpii..........	9	0 11.96	− 0.24	−20.82	58 22 12.28	27.724	+1 29.9	39.7	15 59	.....	.. ..	....
11	δ Ophiuchi........	9	9 39.47	− 0.08	−20.80	42 18 10.30	25.366	+ 50.5	39.1	16 9	.....	.. ..	....
12	η Ophiuchi........	9	5 13.22	− 0.20	−20.86	54 26 8.90	27.852	+1 17.8	40.7	17 4	.....	.. ..	....
13	B. D. − 18° 4503..	9	16 20.17	− 0.22	**−20.87**	57 22 10.82	30.287	+1 26.9	**39.9**	17 15 59.08	− 3.43	−18 33 33.1	−6.5
14	B. D. − 18° 4507..	8	17 5.68	− 0.22	**−20.87**	57 22 11.02	28.663	+1 26.9	**39.9**	17 16 44.59	− 3.43	−18 32 47.4	− 6.5
15	Uranus C, C	9	28 49.25	− 0.28	**−20.88**	62 12 12.08	30.166	+1 45.6	**39.9**	17 28 28.09	.....	−23 23 49.8	....
16	Moon I, N.......	9	48 48.94	− 0.23	**−20.89**	57 54 9.32	29.595	+1 28.8	**39.9**	17 48 27.82	+64.79	−19 5 14.1	....
17	γ^2 Sagittarii........	9	59 59.64	− 0.36	−20.91	69 14 13.02	27.770	+2 26.3	39.9	17 59	.....	.. ..	....
18	μ Sagittarii........	9	8 22.42	− 0.25	−20.90	59 54 10.45	28.605	+1 36.1	40.5	18 8	.....	.. ..	....
19	η Serpentis........	9	16 41.58	− 0.07	−20.92	41 46 10.35	26.759	+ 49.8	40.1	18 16	.....	.. ..	....
20	1 Aquilæ..........	9	30 20.03	− 0.12	−20.90	47 8 11.48	29.022	+1 0.2	40.2	18 29	.....	.. ..	....
21	β Lyræ	9	46 53.52	+ 0.33	−20.92	5 36	......	....	....	18 46	.....	.. ..	....
22	51 H. Cephei S.P....	7	55 34.01	−12.53	[−22.04]	306 4	......	...	....	6 54	.....	.. ..	....
23	ι Lyræ	9	4 14.04	+ 0.37	−20.89	2 54	......	....	....	19 3	.....	.. ..	....
24	λ Ursæ Minoris....	6	19 39.43	+34.63	[−20.51]	309 52	......	....	....	19 19	.....	.. ..	....
	July 7, R.												
25	α Ceti............	9	57 34.61	+ 0.01	−20.95	35 8 7.15	27.482	+ 39.0	38.5	2 57	.....	.. ..	....
26	η Tauri	9	42 4.99	+ 0.25	−20.95	15 2 4.82	29.160	+ 14.9	37.7	3 41	.....	.. ..	....
27	ζ Persei..........	9	48 23.89	+ 0.36	−20.94	7 16 8.90	26.415	+ 7.1	39.2	3 48	.....	.. ..	....
28	α Tauri	9	30 42.92	+ 0.16	−20.89	22 32 7.00	27.656	+ 22.9	37.3	4 30	.....	.. ..	....
29	ι Aurigæ..........	9	51 2.15	+ 0.38	−20.96	5 50 3.50	28.755	+ 5.7	38.0	4 50	.....	.. ..	....
30	β Orionis..........	9	10 14.03	− 0.09	−20.93	47 10 7.38	25.656	+ 59.1	38.4	5 9	.....	.. ..	....
31	β Tauri............	9	20 31.11	+ 0.32	−20.95	10 20 3.82	26.989	+ 10.0	39.2	5 20	.....	.. ..	....
32	Mercury II, C....	9	46 46.39	+ 0.24	**−20.95**	16 38 4.52	28.846	+ 16.4	**38.7**	5 46 25.68	− 0.23	+22 12 23.0	....
	July 8, R.												
33	Sun I, N.........	8	5 48.12	+ 0.25	**−20.97**	16 0 1.90	30.352	+ 15.7	**39.0**	7 5 27.40	+68.44	+22 49 43.9	....
34	Sun II, S........	9	8 5.00	+ 0.25	**−20.97**	16 32 2.68	29.293	+ 16.2	**39.1**	7 7 44.28	−68.44	+22 18 12.6	....
35	α Lyncis	9	15 30.00	+ 0.42	−21.03	4 2 3.38	29.988	+ 3.9	38.6	9 15	.....	.. ..	....
36	α Hydræ..........	9	23 11.07	− 0.06	−21.02	47 4 6.72	29.270	+ 58.4	40.4	9 22	.....	.. ..	....
37	α Leonis	9	3 34.08	+ 0.14	−20.94	26 24 6.22	28.581	+ 27.0	39.8	10 3	.....	.. ..	....
38	Venus I, N.......	9	13 36.57	+ 0.13	**−21.00**	26 54 5.50	26.162	+ 27.5	**39.9**	10 13 15.70	+ 0.82	+11 57 28.7	....
39	δ Leonis	9	9 18.83	+ 0.23	−20.97	17 48 6.25	27.042	+ 17.4	40.5	11 8	.....	.. ..	....
40	ν Ursæ Majoris	9	13 35.98	+ 0.40	−21.06	5 14 5.00	27.150	+ 5.0	40.0	11 13	.....	.. ..	....
41	β Libræ..........	9	12 11.11	− 0.12	−21.08	47 52 9.12	27.005	+1 0.8	39.8	15 11	.....	.. ..	....
42	B. D. − 3° 3809...	9	33 36.04	− 0.07	**−21.10**	42 34 7.62	29.952	+ 50.6	**40.5**	15 33 14.87	− 2.75	− 3 44 43.8	−1.7
43	B. D. − 3° 3818...	9	38 44.19	− 0.07	**−21.10**	42 28 8.20	27 932	+ 50.4	**40.5**	15 38 23.02	− 2.78	− 3 37 46.3	−2.1
44	B. D. − 3° 3824...	9	41 49.30	− 0.07	**−21.11**	42 36 8.50	27.162	+ 50.6	**40.5**	15 41 28.12	− 2.79	− 3 45 24.9	−2.3
45	ε Serpentis........	9	46 22.56	+ 0.01	−21.11	34 4 7.72	28.356	+ 37.3	41.0	15 46	.....	.. ..	....
46	β^1 Scorpii..........	9	0 12.24	− 0.22	−21.12	58 22 8.75	27.902	+1 29.3	40.7	15 59	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
7 10 10	......	....	81.3
10 15	29.984	82.9	81.2
15 12	29.958	78.0	76.9
15 46	......	....	75.1
16 0	......	....	75.0
16 10	29.970	75.9	74.2
17 5	29.966	74.3	73.2
17 29	......	....	72.1
17 49	......	....	72.0
18 0	29.960	73.0	71.9
18 30	29.966	72.9	71.6
2 58	29.974	72.4	75.6
3 42	29.978	75.3	77.0
3 48	......	....	77.1
4 31	29.976	77.9	79.5
4 51	......	....	79.8
5 10	......	...	80.8
5 21	29.982	81.2	81.1
5 47	29.986	82.7	81.5
8 7 8	29.974	83.9	83.8
9 16	29.944	86.3	85.2
9 23	......	....	85.7
10 4	29.924	87.1	85.9
10 14	......	....	85.9
11 14	29.908	87.3	86.2
15 12	29.866	79.2	77.3
15 46	......	....	77.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 43, 44. Bisections at I, II.
5, 6, 13, 33. Bisections at I, II, III.
14. Bisections at II, VI, VII.
16. Bisections at II, III, IV, V, VI.
34. Bisections at V, VI, VII.
38, 40. Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 5.4	− 11.9	...	− 6.5
15	+ 0.4	....	...	+ 0.4
16	+45 52.8	−14 49.0	...	+31 3.8
32	+ 2.3	....	− 0.1	+ 2.2
33	+ 2.4	−15 45.6	...	−15 43.2
34	+ 2.5	+15 45.6	...	+15 48.1
38	+ 5.5	− 12.0	...	− 6.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Ophiuchi	9	9 39.78	− 0.07	−21.13	42 16 10.32	29.644	+ 50.2	40.8	16 9	.....	.. ..	....
2	η Ophiuchi	9	5 13.54	− 0.18	−21.20	54 26 8.45	27.908	+1 17.1	41.3	17 4	.....	.. ..	....
3	α^1 Herculis	9	10 37.36	+ 0.11	−21.18	24 20 8.02	28.769	+ 25.0	39.0	17 10	.....	.. ..	....
4	B. D.—18° 4503	8	16 20.55	− 0.21	**−21.18**	57 22	......	....	....	17 15 59.16	− 3.43	.. ..	....
5	B. D.—18° 4507	9	17 5.92	− 0.21	**−21.19**	57 22 8.12	28.795	+1 26.1	**40.5**	17 16 44.52	− 3.43	−18 32 47.0	−6.6
6	b Ophiuchi	7	20 51.76	− 0.27	−21.20	62 54 5.35	28.760	+1 47.6	39.9	17 20	.....	.. ..	....
7	Uranus C, C	9	28 39.98	− 0.26	**−21.19**	62 12 7.85	30.141	+1 44.6	**40.5**	17 28 18.53	.....	−23 23 43.2	....
8	μ Herculis	9	43 3.45	+ 0.26	−21.17	11 4 11.10	27.908	+ 10.9	41.2	17 42	.....	.. ..	....
9	γ^2 Sagittarii	9	59 59.86	− 0.34	−21.14	69 14 6.50	28.046	+2 25.0	40.0	17 59	.....	.. ..	....
10	μ Sagittarii	9	8 22.68	− 0.24	−21.17	59 54 7.38	28.766	+1 35.3	41.2	18 8	.....	.. ..	....
11	1 Aquilæ	..	.. ....	....	.....	47 8 6.18	29.241	+ 59.7	40.8	18 29	.....	.. ..	....
12	Moon I, N	9	40 43.92	− 0.22	**−21.16**	57 26 4.30	28.806	+1 26.6	**40.5**	18 40 22.54	+64.34	−18 36 43.8	....
13	σ Sagittarii	9	49 40.17	− 0.30	−21.17	65 14 10.25	27.592	+1 59.6	39.0	18 49	.....	.. ..	....
14	51 H. Cephei S. P	7	55 34.26	−12.21	[−22.45]	306 4	......	....	....	6 54	.....	.. ..	....
15	λ Ursæ Minoris	7	19 40.07	+33.77	[−20.55]	309 52	......	....	....	19 19	.....	.. ..	....
16	κ Aquilæ	9	32. 4.96	− 0.10	−21.18	46 4 3.48	29.038	+ 57.6	41.3	19 31	....	.. ..	....
	July 8, L.												
17	η Tauri	9	42 5.68	+ 0.25	−21.61	15 2 7.12	29.108	+ 14.8	38.5	3 41	.....	.. ..	....
18	ζ Persei	9	48 24.62	+ 0.35	−21.63	7 16 14.30	26.266	+ 7.0	40.3	3 48	.....	.. ..	....
19	α Tauri	9	30 43.67	+ 0.16	−21.62	22 32 9.10	27.626	+ 22.7	38.5	4 30	.....	.. ..	....
20	β Tauri	9	20 31.84	+ 0.31	−21.65	10 20 13.38	26.684	+ 10.0	40.0	5 20	.....	.. ..	....
21	Mercury II, C	9	53 52.76	+ 0.23	**−21.62**	16 24 10.52	27.459	+ 16.0	**39.8**	5 53 31.37	− 0.22	+22 26 58.0	....
	July 9, L.												
22	Sun I, N	9	9 54.71	+ 0.24	**−21.62**	16 8 15.65	27.268	+ 15.7	**39.8**	7 9 33.33	+68.45	+22 42 58.8	....
23	Sun II, S	9	12 11.60	+ 0.24	**−21.62**	16 40 10.22	26.353	+ 16.2	**39.8**	7 11 50.22	−68.44	+22 11 29.6	....
24	β Geminorum	9	39 44.76	+ 0.31	−21.62	10 36 12.72	26.491	+ 10.1	41.6	7 39	.....	.. ..	....
25	α Hydræ	9	23 11.62	− 0.07	−21.56	47 4 11.08	29.121	+ 57.9	40.1	9 22	.....	.. ..	....
26	α Leonis	9	3 34.75	+ 0.14	−21.62	26 24 10.68	28.418	+ 26.8	39.4	10 3	.....	.. ..	....
27	γ^1 Leonis	9	14 59.81	+ 0.22	−21.65	18 32 11.20	25.578	+ 18.1	39.6	10 14	.....	.. ..	....
28	Venus I, N	9	17 9.24	+ 0.13	**−21.64**	27 18 12.80	28.608	+ 27.8	**39.8**	10 16 47.73	+ 0.82	+11 32 11.3	....
29	η Ophiuchi	9	5 14.20	− 0.19	−21.85	54 26 7.18	27.958	+1 16.5	40.8	17 4	.....	.. ..	....
30	α^1 Herculis	9	10 38.02	+ 0.11	−21.84	24 20 11.55	28.634	+ 24.8	38.6	17 10	.....	.. ..	....
31	B. D.—18° 4503	9	16 21.09	− 0.22	**−21.83**	57 22 10.45	30.345	+1 25.5	**39.7**	17 15 59.04	− 3.43	−18 33 33.2	−6.5
32	B. D.—18° 4507	9	17 6.61	− 0.22	**−21.83**	57 22 10.45	28.720	+1 25.4	**39.7**	17 16 44.56	− 3.43	−18 32 47.3	−6.6
33	b Ophiuchi	9	20 52.42	− 0.28	−21.85	62 54 12.05	28.541	+1 46.7	39.2	17 20	.....	.. ..	....
34	Uranus C, C	9	28 31.19	− 0.27	**−21.83**	62 14 12.05	25.569	+1 43.6	**39.7**	17 28 9.09	.....	−23 23 36.9	....
35	α Ophiuchi	9	30 50.50	+ 0.09	−21.77	26 12 11.95	28.978	+ 27.0	38.4	17 30	.....	.. ..	....
36	51 H. Cephei S. P	6	55 34.53	−13.08	[−21.69]	306 4	......	....	....	6 54	.....	.. ..	....
37	ζ Aquilæ	9	1 21.91	+ 0.10	−21.82	25 8 11.92	26.189	+ 25.8	39.7	19 1	.....	.. ..	....
38	d Sagittarii	9	12 23.14	− 0.23	−21.84	57 58 13.15	25.448	+1 27.7	40.9	19 12	.....	.. ..	....
39	λ Ursæ Minoris	5	19 38.46	+36.13	[−21.60]	309 52	......	....	....	19 19	.....	.. ..	....
40	δ Aquilæ	9	21 1.46	− 0.01	−21.80	35 56 12.52	25.398	+ 39.9	40.2	19 20	.....	.. ..	....
41	Moon II, N	9	33 57.56	− 0.21	**−21.82**	56 8 10.42	25.592	+1 21.9	**39.7**	19 33 35.53	−63.72	−17 17 14.4	....
42	γ Aquilæ	9	42 3.76	+ 0.07	−21.82	28 28 7.75	27.311	+ 29.9	39.8	19 41	.....	.. ..	....
	July 9, Br.												
43	ζ Persei	9	48 24.97	+ 0.30	−21.90	7 16 7.22	26.535	+ 7.0	41.2	3 48	.....	.. ..	....
44	α Tauri	9	30 43.91	+ 0.11	−21.79	22 32 8.88	27.658	+ 22.5	39.1	4 30	.....	.. ..	....
45	β Orionis	9	10 14.95	− 0.15	−21.75	47 10 8.18	25.690	+ 58.1	39.6	5 9	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
8 16 10	29.880	77.8	76.5
17 0	29.880	77.3	....
17 5	......	....	76.2
17 29	......	....	75.6
17 43	......	....	75.1
18 8	29.880	75.7	74.4
18 30	......	....	74.1
18 41	......	....	74.1
19 2	29.880	75.0	....
19 32	29.872	74.4	73.3
3 42	29.870	77.2	80.1
3 48	......	....	80.3
4 31	29.876	80.4	82.3
5 21	29.876	83.4	84.0
5 54	29.880	84.8	85.1
9 7 12	29.876	86.8	87.2
7 40	......	....	87.8
9 23	29.856	89.0	88.4
10 4	......	....	88.9
10 17	29.850	89.8	89.0
17 5	29.828	80.1	79.0
17 31	29.824	79.8	79.1
19 1	29.820	78.4	77.0
19 42	29.820	77.5	75.5
3 48	29.820	79.1	83.0
4 31	29.822	82.7	85.1
5 10	29.830	86.4	87.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

5, 6, 32, 43.	Bisections at VI, VII.
12, 41.	Bisections at II, III, IV, V, VI.
22, 31.	Bisections at I, II, III.
23.	Bisections at V, VI, VII.
24.	Z. D. thread D_1 used.
27.	Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+ 0.4	....	...	+ 0.4
12	+45 28.2	−14 45.7	...	+30 42.5
21	+ 2.2	....	− 0.1	+ 2.1
22	+ 2.4	−15 44.6	...	−15 42.2
23	+ 2.5	+15 44.5	...	+15 47.0
28	+ 5.7	− 12.2	...	− 6.5
34	+ 0.4	....	...	+ 0.4
41	+44 41.8	−14 44.0	...	+29 57.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	July 10, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Sun I, N.........	9	14 0.47	+ 0.22	**−21.85**	16 14 3.70	29.970	+ 15.7	**40.2**	7 13 38.84	+68.38	+22 35 54.1	....
2	Sun II, S.........	9	16 17.23	+ 0.22	**−21.85**	16 46 4.75	28.882	+ 16.2	**40.2**	7 15 55.60	−68.38	+22 4 23.4	....
3	α Hydræ..........	9	23 11.88	− 0.08	−21.81	47 4 7.55	29.261	+ 57.3	40.1	9 22	.....	.. ..	....
4	α Leonis	9	3 35.02	+ 0.13	−21.88	26 24 5.60	28.674	+ 26.5	41.3	10 3	.....	.. ..	...
5	γ¹ Leonis	6	15 0.18	+ 0.22	−22.03	18 32 7.45	25.725	+ 17.9	39.8	10 14	.....	.. ..	....
6	Venus I, N	9	20 39.16	+ 0.12	**−21.90**	27 44 5.92	27.636	+ 28.0	**40.2**	10 20 17.38	+ 0.83	+11 6 46.1	....
7	δ Leonis	9	9 19.71	+ 0.23	−21.87	17 48 5.90	27.056	+ 17.2	40.4	11 8	.....	.. ..	....
8	51 H. Cephei S. P....	7	55 35.06	−13.66	[−21.48]	306 4	......	....	....	6 54	.....	.. ..	....
9	ζ Aquilæ..........	9	1 22.09	+ 0.06	−21.95	25 8	......	....	....	19 ·1	.....	.. ..	....
10	ι Lyræ............	9	4 15.17	+ 0.36	−21.99	2 54	......	....	....	19 3	.....	.. ..	....
11	λ Ursæ Minoris	6	19 39.17	+37.60	[−24.07]	309 52	......	....	....	19 19	.....	.. ..	....
12	τ Aquilæ...........	9	59 49.17	− 0.01	−21.92	31 50 10.05	27.824	+ 34.2	41.0	19 59	.....	.. ..	....
13	θ Aquilæ...........	9	6 43.28	− 0.10	−21.99	39 56 11.22	29.058	+ 46.1	41.1	20 6	.....	.. ..	....
14	Moon II, N	9	23 58.77	− 0.26	**−21.95**	54 2 10.15	27.017	+1 15.8	**40.6**	20 23 36.56	−63.01	−15 11 46.4	....
15	Saturn I, N.......	4	40 5.80	− 0.29	**−21.96**	57 50 10.90	28.895	+1 27.4	**40.6**	20 39 43.55	+ 0.71	−19 0 53.4	....
16	Saturn II, S	5	40 7.21	− 0.29	**−21.96**	57 50 10.90	29.475	+1 27.4	**40.6**	20 39 44.96	− 0.70	−19 1 10.1	....
17	μ Aquarii..........	9	47 50.64	− 0.18	−21.96	48 10 11.38	29.034	+1 1.5	40.5	20 47	.....	.. ..	....
18	ζ Capricorni.......	9	21 33.18	− 0.34	−21.90	61 40 13.65	25.408	+1 41.6	40.0	21 21	.....	.. ..	....
	July 10, R.												
19	ε Persei	8	51 43.55	+ 0.50	−21.96	359 8 2.58	26.920	− 0.8	40.2	3 51	.....	.. ..	....
20	α Tauri	9	30 44.03	+ 0.14	−21.91	22 32 4.78	27.769	+ 22.4	38.1	4 30	.....	.. ..	....
21	ι Aurigæ..........	9	51 3.22	+ 0.38	−21.95	5 50 6.28	28.695	+ 5.6	39.3	4 50	.....	.. ..	....
22	β Orionis..........	9	10 15.09	− 0.13	−21.89	47 10 5.80	25.760	+ 58.1	39.4	5 9	.....	.. ..	....
23	ε Orionis..........	9	31 39.98	− 0.04	−21.87	40 6 4.30	28.534	+ 45.3	41.2	5 31	.....	.. ..	....
24	α Orionis..........	9	50 17.71	+ 0.06	−21.87	31 28 4.45	26.571	+ 32.9	41.1	5 49	.....	.. ..	....
25	Mercury II, C.....	9	8 53.84	+ 0.24	**−21.91**	15 58 4.20	29.590	+ 15.4	**40.0**	6 8 32.17	− 0.22	+22 52 4.4	...
	July 11, R.												
26	Sun I, S.........	9	18 5.85	+ 0.24	**−21.91**	16 54 5.95	27.767	+ 16.3	**40.0**	7 17 44.18	+68.25	+21 56 53.9	...
27	Sun II, N.........	9	20 22.35	+ 0.24	**−21.91**	16 22 7.12	28.703	+ 15.7	**40.0**	7 20 0.68	−68.25	+22 28 26.4	....
28	α Hydræ..........	9	23 11.91	− 0.06	−21.86	47 4 5.15	29.372	+ 57.1	40.9	9 22	.....	.. ..	....
29	α Leonis	9	3 35.02	+ 0.14	−21.90	26 24 5.00	28.662	+ 26.4	40.4	10 3	.....	.. ..	....
30	γ¹ Leonis	9	15 0.11	+ 0.23	−21.97	18 32 7.30	25.718	+ 17.8	39.7	10 14	.....	.. ..	....
31	Venus I, N	9	24 6.35	+ 0.13	**−21.92**	28 10 5.68	26.610	+ 28.4	**40.0**	10 23 44.56	+ 0.84	+10 41 14.9	....
32	51 H. Cephei S. P...	9	55 35.83	−13.84	[−21.93]	306 4	......	....	....	6 55	.....	.. ..	....
33	λ Ursæ Minoris....	9	19 34.83	+38.02	[−20.41]	309 52	......	....	....	19 19	.....	.. ..	....
34	β Sagittæ	9	37 6.63	+ 0.12	−22.10	21 36	......	....	....	19 36	.....	.. ..	....
35	γ Aquilæ.........	9	42 3.98	+ 0.04	−21.99	28 28	......	....	....	19 41	.....	.. ..	....
36	α² Capricorni.......	9	13 5.93	− 0.21	−22.03	51 40 7.15	28.724	+1 9.8	41.8	20 12	.....	.. ..	....
37	π Capricorni.......	9	22 11.78	− 0.28	−21.99	57 22 2.60	26.255	+1 26.1	41.2	20 21	.....	.. ..	....
38	Saturn I, N......	4	39 49.51	− 0.28	**−22.05**	57 52 4.45	27.320	+1 27.7	**41.1**	20 39 27.18	+ 0.65	−19 2 1.9	....
39	Saturn II, S	5	39 50.81	− 0.28	**−22.05**	57 52 4.45	27.890	+1 27.7	**41.1**	20 39 28.48	− 0.65	−19 2 18.3	....
40	μ Aquarii.........	9	47 50.77	− 0.18	−22.07	48 10 4.60	29.266	+1 1.7	40.7	20 47	.....	.. ..	....
41	Moon II, N......	9	12 54.06	− 0.22	**−22.06**	51 18 5.38	25.770	+1 8.9	**41.1**	21 12 31.78	−62.37	−12 27 0.1	....
42	β Aquarii..........	9	26 52.41	− 0.15	−22.07	44 50 2.85	27.505	+ 54.9	40.3	21 26	.....	.. ..	....
43	ξ Aquarii.........	9	33 0.53	− 0.17	−22.05	47 8 3.05	26.260	+ 59.5	41.4	21 32	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
10 7 16	29.826	89.6	90.6
9 23	29.788	92.9	93.0
10 4	29.778	93.8	93.0
10 15	....	....	92.5
10 21	29.778	93.6	92.9
11 9	29.790	93.5	92.9
20 0	29.758	77.2	75.1
20 24	29.750	77.0	74.8
20 40	....	....	75.0
20 48	29.744	76.9	75.1
21 22	29.740	77.0	75.8
3 52	29.730	81.2	83.4
4 31	....	....	84.7
4 51	29.733	84.4	85.5
5 10	....	....	86.1
5 32	....	....	86.7
5 50	29.728	88.3	87.3
6 9	29.724	88.9	88.0
11 7 20	29.710	90.3	90.7
9 23	29.668	92.8	92.1
10 4	....	....	92.6
10 15	29.664	93.8	92.6
10 24	....	...	92.7
20 13	29.664	73.6	71.8
20 22	....	....	71.7
20 48	29.648	73.3	71.7
21 13	....	....	71.2
21 33	29.640	72.9	71.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 26.	Bisections at I, II, III.
2, 27.	Bisections at V, VI, VII.
5.	Bisection at I.
14.	Bisections at II, III, IV.
15, 31, 38.	Bisections at I, VII.
16, 39.	Bisections at II, VI.
19, 28, 42.	Bisections at II, VI, VII.
21.	Bisections at VI, VII.
41.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+ 2.4	−15 45.3	...	−15 42.9
2	+ 2.5	+15 45.3	...	+15 47.8
6	+ 5.8	− 12.3	...	− 6.5
14	+43 33.5	−14 43.8	...	+28 49.7
15	+ 0.8	− 8.4	...	− 7.6
16	+ 0.8	+ 8.3	...	+ 9.1
25	+ 2.1	....	0.0	+ 2.1
26	+ 2.5	+15 46.2	...	+15 48.7
27	+ 2.4	−15 46.2	...	−15 43.8
31	+ 6.0	− 12.5	...	− 6.5
38	+ 0.8	− 8.2	...	− 7.4
39	+ 0.8	+ 8.2	...	+ 9.0
41	+42 3.6	−14 45.3	...	+27 18.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	July 13, L.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	ε Delphini	9	29 0.42	+ 0.04	−22.57	27 52 5.52	27.725	+ 29.7	38.5	20 28	.....	.. ..	....
2	α Delphini	9	35 33.60	+ 0.10	−22.59	23 16 1.25	28.556	+ 24.2	39.2	20 35	.....	.. ..	....
3	Saturn I, N......	4	39 16.63	− 0.30	**−22.61**	57 54 0.22	27.998	+1 29.2	**38.6**	20 38 53.72	+ 0.66	−19 4 21.1	....
4	Saturn II, S	5	39 17.94	− 0.30	**−22.61**	57 54 0.22	28.552	+1 29.2	**38.6**	20 38 55.03	− 0.65	−19 4 36.8	....
5	μ Aquarii..........	9	47 51.33	− 0.18	−22.60	48 10 1.65	29.248	+1 2.6	38.3	20 47	.....	.. ..	....
6	ζ Cygni...........	9	9 14.03	+ 0.29	−22.67	9 2 3.10	25.855	+ 9.0	38.6	21 8	.....	.. ..	....
7	η Aquarii..........	9	30 47.83	− 0.09	−22.62	39 28 5.38	25.974	+ 46.2	39.1	22 30	.....	.. ..	....
8	ζ Pegasi...........	9	37 2.84	+ 0.03	−22.60	28 30 13.55	29.398	+ 30.5	38.9	22 36	.....	.. ..	....
9	λ Pegasi...........	9	42 16.88	+ 0.19	−22.66	15 48 10.38	26.328	+ 15.9	38.8	22 41	.....	.. ..	....
10	Moon II, N......	9	48 27.02	− 0.14	**−22.63**	44 20 8.62	27.026	+ 54.8	**38.6**	22 48 4.25	−61.82	− 5 29 27.5	....
11	α Pegasi...........	7	0 21.03	+ 0.09	−22.65	24 10 6.48	26.686	+ 25.2	37.5	22 59	.....	.. ..	....
	July 13, Br.												
12	η Tauri............	9	42 6.82	+ 0.18	−22.53	15 2 6.88	29.101	+ 15.0	38.7	3 41	.....	.. ..	....
13	ζ Persei...........	9	48 25.76	+ 0.29	−22.56	7 16 9.92	26.391	+ 7.1	39.8	3 48	.....	.. ..	....
14	α Tauri............	9	30 44.78	+ 0.08	−22.52	22 32 8.08	27.629	+ 23.1	38.3	4 30	.....	.. ..	....
15	ι Aurigæ..........	9	51 3.97	+ 0.32	−22.56	5 50 6.82	28.688	+ 5.7	39.5	4 50	.....	.. ..	....
16	β Orionis..........	9	10 15.82	− 0.20	−22.49	47 10	......	....	....	5 9	.....	.. ..	....
17	Mercury II, C....	9	33 18.01	+ 0.18	**−22.55**	15 34 3.42	28.534	+ 15.4	**39.0**	6 32 55.64	− 0.20	+23 16 34.3	....
	July 14, Br.												
18	Sun I, S..........	9	30 19.33	+ 0.16	**−22.56**	17 18 7.78	29.203	+ 17.2	**39.0**	7 29 56.93	+68.13	+21 32 9.2	....
19	Sun II, N	9	32 35.59	+ 0.16	**−22.56**	16 46 4.58	30.357	+ 16.6	**39.0**	7 32 13.19	−68.13	+22 3 40.0	....
20	α Hydræ	9	23 12.69	− 0.17	−22.54	47 4 4.10	29.262	+ 58.8	38.7	9 22	.....	.. ..	....
21	α Leonis	4	3 35.80	+ 0.06	−22.61	26 24 3.55	28.640	+ 27.2	39.3	10 3	.....	.. ..	....
22	γ¹ Leonis	9	15 0.83	+ 0.15	−22.62	18 32 3.88	25.770	+ 18.4	38.2	10 14	.....	.. ..	....
23	Venus I, N	9	34 12.78	+ 0.02	**−22.59**	29 26 5.68	29.024	+ 30.9	**39.0**	10 33 50.21	+ 0.87	+ 9 24 2.7	....
24	δ Leonis	9	9 20.43	+ 0.16	−22.56	17 48 3.98	27.072	+ 17.6	39.3	11 8	.....	.. ..	....
25	φ Aquarii..........	9	9 43.42	− 0.17	−22.73	45 24 9.08	28.088	+ 57.6	39.3	23 9	.....	.. ..	....
26	θ Piscium	9	23 28.19	− 0.03	−22.73	33 0 11.58	26.564	+ 36.9	39.2	23 23	.....	.. ..	....
27	Moon II, N......	9	36 1.77	− 0.12	**−22.75**	40 22 10.95	29.474	+ 48.4	**39.0**	23 35 38.90	−62.14	− 1 32 32.8	....
28	Jupiter I, S......	5	37 52.10	− 0.15	**−22.75**	42 42 10.20	29.672	+ 52.5	**39.0**	23 37 29.20	+ 1.50	− 3 52 41.8	....
29	Jupiter II, N.....	5	37 55.10	− 0.15	**−22.75**	42 42 10.20	28.132	+ 52.5	**39.0**	23 37 32.20	− 1.50	− 3 51 57.9	....
30	ω Piscium	9	54 44.99	− 0.03	−22.71	32 30 12.38	29.112	+ 36.3	39.2	23 54	.....	.. ..	....
31	33 Piscium	9	0 47.46	− 0.18	−22.74	45 4 10.22	29.538	+ 57.1	38.3	0 0	.....	.. ..	....
32	6 B. Ursæ Minoris S. P.	6	14 37.72	−23.29	[−23.33]	307 8	......	....	....	12 13	.....	.. ..	....
33	π Andromedæ	9	32 7.05	+ 0.32	−22.78	5 40	......	....	....	0 31	.....	.. ..	....
34	β Andromedæ	9	4 42.97	+ 0.35	−22.84	3 44	......	....	....	1 4	.....	.. ..	....
35	α Ursæ Minoris	7	24 22.81	+33.04	[−23.45]	310 6	......	....	....	1 24	.....	.. ..	....
	July 14, L.												
36	α Tauri............	9	30 45.16	+ 0.14	−22.93	22 32 5.98	27.632	+ 23.3	36.6	4 30	.....	.. ..	....
37	ι Aurigæ..........	9	51 4.37	+ 0.38	−22.98	5 50 6.38	28.631	+ 5.8	37.6	4 50	.....	.. ..	....
38	β Orionis..........	9	10 16.20	− 0.14	−22.91	47 10 5.98	25.590	+1 0.3	37.7	5 9	.....	.. ..	....
39	α Orionis..........	9	50 18.84	+ 0.03	−22.90	31 28 6.82	26.342	+ 34.2	38.9	5 49	.....	.. ..	....
	July 15, L.												
40	Sun I, S..........	9	34 23.11	+ 0.20	**−22.96**	17 28 10.85	27.000	+ 17.6	**38.2**	7 34 0.35	+68.07	+21 23 7.6	....
41	Sun II, N........	9	36 39.26	+ 0.20	**−22.96**	16 56 9.28	28.123	+ 17.0	**38.2**	7 36 16.50	−68.08	+21 54 37.7	....
42	α Leonis	9	3 36.11	+ 0.07	−22.94	26 24 8.40	28.441	+ 27.7	38.9	10 3	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
13 20 29	29.682	66.3	64.7
20 48	......	....	64.7
21 9	29.684	66.1	64.5
22 31	29.680	65.8	64.0
23 0	29.682	65.4	63.7
3 42	......	....	68.8
3 48	29.710	68.0	70.0
4 31	29.716	70.0	70.3
4 51	......	....	70.9
5 10	29.724	72.6	72.0
6 33	29.720	75.4	75.0
14 7 33	29.718	76.4	75.3
9 23	29.694	78.1	77.5
10 4	29.690	78.8	77.1
10 15	......	....	77.7
10 34	29.692	79.1	77.6
11 9	29.690	79.2	77.2
23 10	29.714	60.9	58.5
23 55	......	....	57.9
0 1	29.708	59.9	57.7
4 31	29.750	66.1	66.7
4 51	......	....	68.0
5 10	......	....	67.4
5 50	29.776	70.4	68.3
15 7 37	29.774	71.0	70.0
10 4	29.786	71.8	70.2

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 29. Bisections at II, VI.
4, 28. Bisections at I, VII.
6. Bisections at I, II, VI.
10, 27. Bisections at II, III, IV, V, VI.
18, 40. Bisections at I, II, III.
19, 41. Bisections at V, VI, VII.
21. Bisections at II, VI, VII.
39. Bisections at VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 0.8	− 7.9	...	− 7.1
4	+ 0.8	+ 7.8	...	+ 8.6
10	+38 1.5	−14 54.1	...	+23 7.4
17	+ 2.0	....	0.0	+ 2.0
18	+ 2.6	+15 45.4	...	+15 48.0
19	+ 2.5	−15 45.3	...	−15 42.8
23	+ 6.5	− 12.9	...	− 6.4
27	+35 32.9	−15 1.9	...	+20 31.0
28	+ 1.4	+ 22.0	...	+ 23.4
29	+ 1.4	− 21.9	...	− 20.5
40	+ 2.6	+15 45.0	...	+15 47.6
41	+ 2.5	−15 45.0	...	−15 42.5

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ^{1} Leonis	9	15 1.24	+ 0.17	−23.06	18 32 9.78	25.557	+ 18.7	38.2	10 14	.....	.. ..	....
2	Venus I, N	9	37 29.88	+ 0.03	**−23.00**	29 52 11.35	28.540	+ 32.0	**38.8**	10 37 6.91	+ 0.88	+ 8 58 9.5	....
3	δ Leonis	9	9 20.81	+ 0.17	−22.96	17 48 11.90	26.766	+ 17.9	38.7	11 8	.....	.. ..	....
4	ν Ursæ Majoris	9	13 37.94	+ 0.36	−23.06	5 14 14.82	26.704	+ 5.2	39.5	11 13	.....	.. ..	....
	July 15, R.												
5	φ Aquarii	9	9 43.71	− 0.15	−23.01	45 24 4.12	28.238	+ 58.1	39.3	23 9	.....	.. ..	....
6	θ Piscium	9	23 28.44	− 0.01	−22.97	33 0 0.72	26.905	+ 37.2	38.5	23 23	.....	.. ..	....
7	Jupiter I, N	8	37 51.67	− 0.13	**−22.98**	42 42 6.00	29.098	+ 52.9	**38.1**	23 37 28.56	+ 1.48	− 3 52 22.5	....
8	Jupiter II, S	8	37 54.63	− 0.13	**−22.98**	42 42 6.00	30.595	+ 53.0	**38.1**	23 37 31.52	− 1.48	− 3 53 5.3	....
9	ω Piscium	9	54 45.27	− 0.03	−22.96	32 30 4.72	29.315	+ 36.6	37.8	23 54	.....	.. ..	....
10	33 Piscium	9	0 47.69	− 0.18	−22.94	45 4 5.98	29.636	+ 57.5	37.4	0 0	.....	.. ..	....
11	6 B. Ursæ Minoris s. p.	9	14 35.22	−23.00	[−21.72]	307 8	......	....	....	12 13	.....	.. ..	....
12	Moon II, N	9	24 22.28	− 0.09	**−22.98**	36 18 5.92	28.754	+ 42.2	**38.1**	0 23 59.21	−62.94	+ 2 31 58.0	....
13	δ Piscium	9	44 4.23	− 0.05	−23.01	31 47 57.12	25.812	+ 35.6	38.0	0 43	....	.. ..	....
14	ε Piscium	9	58 19.67	− 0.06	−22.97	31 28 7.42	28.344	+ 35.1	37.8	0 57	....	.. ..	....
15	α Ursæ Minoris	8	24 25.36	+31.48	[−23.43]	310 6	......	....	....	1 24	.....	.. ..	....
	July 15, L.												
16	α Tauri	9	30 45.57	+ 0.13	−23.31	22 32 1.68	27.748	+ 23.4	35.8	4 30	.....	.. ..	....
17	ι Aurigæ	9	51 4.73	+ 0.36	−23.30	5 50 5.90	28.626	+ 5.8	37.0	4 50	.....	.. ..	....
18	β Orionis	9	10 16.58	− 0.16	−23.25	47 10 6.45	25.529	+1 0.5	36.9	5 9	.....	.. ..	....
19	β Tauri	9	20 33.65	+ 0.29	−23.27	10 20 10.02	26.716	+ 10.3	38.0	5 20	.....	.. ..	....
20	Mercury I, C	4	50 35.84	+ 0.20	**−23.31**	15 28 10.82	29.462	+ 15.5	**37.2**	6 50 12.73	+ 0.17	+23 21 58.5	....
21	Mercury II	5	50 36.23	+ 0.20	**−23.31**	... .	......	....	....	6 50 13.12	− 0.22	.. ..	....
	July 16, L.												
22	Sun I, N	9	38 26.45	+ 0.18	**−23.32**	17 4 6.78	31.015	+ 17.2	**37.4**	7 38 3.31	+67.99	+21 45 16.9	....
23	Sun II, S	9	40 42.42	+ 0.18	**−23.32**	17 36 6.92	29.955	+ 17.7	**37.4**	7 40 19.28	−67.98	+21 13 46.4	....
24	α Leonis	9	3 36.50	+ 0.10	−23.36	26 24 11.58	28.304	+ 27.5	37.9	10 3	.....	.. ..	...
25	γ^{1} Leonis	4	15 1.55	+ 0.20	−23.40	18 30	......	....	....	10 14	.....	.. ..	....
26	Venus I, N	9	40 44.18	+ 0.07	**−23.37**	30 18 8.60	28.528	+ 32.4	**37.9**	10 40 20.88	+ 0.89	+ 8 32 11.3	....
27	δ Leonis	9	9 21.12	+ 0.21	−23.32	17 48 7.68	26.901	+ 17.8	38.2	11 8	.....	.. ..	....
28	ν Ursæ Majoris	9	13 38.23	+ 0.38	−23.38	5 14 7.72	27.000	+ 5.1	38.4	11 13	.....	.. ..	....
29	β Leonis	..	.. ..	....	.....	23 44 9.85	27.512	+ 24.4	37.3	11 44	.....	.. ..	....
30	τ Pegasi	9	16 16.40	+ 0.18	−23.60	15 38 6.00	28.072	+ 15.9	38.6	23 15	.....	.. ..	....
31	θ Piscium	9	23 29.12	− 0.04	−23.60	33 0 5.90	26.748	+ 36.8	39.1	23 23	.....	.. ..	....
32	ι Piscium	9	35 23.84	− 0.04	−23.55	33 44 8.25	28.188	+ 37.9	38.4	23 35	.....	.. ..	....
33	Jupiter I, N	5	37 50.67	− 0.14	**−23.57**	42 44 6.75	25.972	+ 52.4	**38.6**	23 37 26.96	+ 1.52	− 3 52 53.2	....
34	Jupiter II, S	5	37 53.70	− 0.14	**−23.57**	42 44 6.75	27.485	+ 52.4	**38.6**	23 37 29.99	− 1.51	− 3 53 36.3	....
35	ω Piscium	9	54 45.88	− 0.03	−23.54	32 30 9.85	29.172	+ 36.2	38.7	23 54	.....	.. ..	....
36	6 B. Ursæ Minoris s. p.	8	14 34.80	−22.67	[−22.27]	307 8	.....	....	....	12 13	.....	.. ..	....
37	δ Piscium	9	44 4.81	− 0.02	−23.59	31 48 6.22	25.538	+ 35.2	39.1	0 43	.....	.. ..	....
38	ε Piscium	9	58 20.26	− 0.02	−23.57	31 28 7.18	28.385	+ 34.8	38.6	0 57	.....	.. ..	....
39	Moon II, N	9	14 16.31	− 0.03	**−23.61**	32 16 8.40	27.511	+ 35.8	**38.6**	1 13 52.67	−64.24	+ 6 34 37.8	....
40	θ^{2} Ceti	9	19 36.14	− 0.20	−23.64	47 32 5.70	25.429	+1 1.9	37.8	1 19	.....	.. ..	....
41	α Ursæ Minoris	6	24 25.78	+32.50	[−23.79]	310 6	......	....	....	1 24	.....	.. ..	....
42	ν Piscium	9	36 48.58	− 0.04	−23.65	33 50 6.90	28.870	+ 38.1	38.1	1 36	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
15 10 15	......	....	70.7
10 37	......	....	71.0
11 9	......	....	71.1
11 14	29.788	72.4	71.1
23 10	29.824	58.7	56.3
23 23	......	....	56.1
23 38	......	....	55.9
0 1	29.824	58.0	56.0
0 24	......	....	55.8
0 44	......	....	56.0
0 58	29.834	57.7	56.1
4 31	29.870	64.6	66.3
4 51	......	....	67.0
5 10	......	....	67.7
5 21	29.882	68.0	68.1
6 51	29.876	71.4	70.8
16 7 41	29.872	72.1	71.4
10 4	29.864	75.7	75.0
10 41	......	....	74.0
11 9	......	....	74.9
11 14	29.858	75.8	74.7
11 45	29.858	76.0	74.7
23 16	29.842	62.1	61.8
23 55	29.856	62.4	61.7
0 44	29.874	62.5	62.3
1 37	29.868	62.6	61.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1. Bisections at I, II, VI.
4. Z. D. thread D_1 used.
7, 34. Bisections at I, VII.
8, 33. Bisections at II, VI.
12, 39. Bisections at II, III, IV, V, VI.
22. Bisections at I, II, III.
23. Bisections at V, VI, VII.
32. Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 6.6	− 13.1	...	− 6.5
7	+ 1.4	− 21.4	...	− 20.0
8	+ 1.4	+ 21.4	...	+ 22.8
12	+32 50.3	−15 11.9	...	+17 38.4
20	+ 1.9	....	0.0	+ 1.9
22	+ 2.5	−15 45.2	...	−15 42.7
23	+ 2.6	+15 45.2	...	+15 47.8
26	+ 6.8	− 13.3	...	− 6.5
33	+ 1.4	− 21.6	...	− 20.2
34	+ 1.4	+ 21.5	...	+ 22.9
39	+29 59.4	−15 24.1	...	+14 35.3

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	July 16, Br.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Tauri............	9	30 45.83	+ 0.09	−23.50	22 32 7.65	27.615	+ 23.1	37.8	4 30	.....	.. ..	....
2	ι Aurigæ..........	9	51 5.03	+ 0.34	23.55	5 50 7.28	28.648	+ 5.7	38.9	4 50	.....	.. ..	....
3	β Orionis..........	9	10 16.86	− 0.20	−23.46	47 10 7.75	25.556	+ 59.7	38.2	5 9	.....	.. ..	....
4	β Tauri	9	20 33.99	+ 0.27	−23.57	10 20 8.72	26.815	+ 10.1	39.3	5 20	.....	.. ..	....
5	Mercury C, C	9	59 29.49	+ 0.20	**−23.55**	15 30 4.55	27.621	+ 15.3	**38.8**	6 59 6.14	− 0.02	+23 20 59.0	....
	July 17, Br.												
6	Sun I, N..........	9	42 29.20	+ 0.18	**−23.56**	17 14 4.25	30.560	+ 17.1	**38.8**	7 42 5.82	+67.84	+21 35 33.9	....
7	Sun II, S	7	44 44.88	+ 0.18	**−23.56**	17 46 6.55	29.492	+ 17.7	**38.8**	7 44 21.50	−67.84	+21 4 1.4	....
8	α Hydræ	..	.. ..	....	.....	47 4 6.45	29.172	+ 59.0	39.4	9 22	.....	.. ..	....
9	ε Leonis	7	40 44.87	+ 0.22	−23.61	14 38 8.70	27.210	+ 14.4	38.8	9 40	.....	.. ..	....
10	α Leonis...........	9	3 36.71	+ 0.09	−23.56	26 24 6.52	28.519	+ 27.2	38.8	10 3	.....	.. ..	....
11	γ¹ Leonis...........	9	15 1.78	+ 0.18	−23.61	18 32 6.28	25.708	+ 18.4	38.7	10 14	.....	.. ..	....
12	Venus I, N.......	9	43 55.71	+ 0.05	**−23.61**	30 44 9.50	28.491	+ 32.6	**38.8**	10 43 32.15	+ 0.90	+ 8 6 12.2	....
13	δ Leonis	9	9 21.44	+ 0.19	−23.62	17 48 9.05	26.891	+ 17.6	39.1	11 8	.....	.. ..	....
	July 19, L.												
14	η Tauri	9	42 9.33	+ 0.24	−24.92	15 2 4.05	29.164	+ 14.9	38.1	3 41	.....	.. ..	....
15	ε Persei	9	51 46.82	+ 0.49	−24.91	359 8 6.65	26.735	− 0.8	39.1	3 51	.....	.. ..	....
16	Moon II.........	9	0 50.82	+ 0.15	**−24.95**	22 42	......	....	....	4 0 26.02	−70.28	.. ..	....
17	α Tauri............	9	30 47.22	+ 0.16	−24.88	22 32 7.12	27.615	+ 22.8	37.3	4 30	.....	.. ..	....
18	ι Aurigæ..........	9	51 6.58	+ 0.38	−25.05	5 50 7.70	28.579	+ 5.7	39.7	4 50	.....	.. ..	....
19	β Orionis..........	9	10 18.36	− 0.10	−25.00	47 10 7.18	25.598	+ 59.0	38.7	5 9	.....	.. ..	....
20	Mercury I, C.....	4	26 46.10	+ 0.25	**−24.97**	15 48 8.10	29.881	+ 15.4	**38.9**	7 26 21.38	+ 0.25	+23 1 51.1	....
21	Mercury II	5	26 46.61	+ 0.25	**−24.97**	... .	......	....	....	7 26 21.89	− 0.26	.. ..	....
	July 20, L.												
22	Sun I, S	9	54 34.78	+ 0.22	**−24.97**	18 18 8.20	28.153	+ 18.0	**38.9**	7 54 10.03	+67.66	+20 32 37.7	....
23	Sun II, N.........	9	56 50.10	+ 0.22	**−24.97**	17 46 10.10	29.068	+ 17.4	**38.9**	7 56 25.35	−67.66	+21 4 10.3	....
24	γ¹ Leonis	9	15 3.12	+ 0.22	−25.00	18 32 8.28	25.652	+ 18.1	38.8	10 14	.....	.. ..	....
25	Venus I, N.......	9	53 14.02	+ 0.07	**−24.98**	32 2 5.78	28.738	+ 33.9	**38.9**	10 52 49.11	+ 0.93	+ 6 48 7.6	....
26	δ Leonis	9	9 22.71	+ 0.23	−24.96	17 48 6.88	26.979	+ 17.4	39.3	11 8	.....	.. ..	....
27	ν Ursæ Majoris	9	13 39.81	+ 0.39	−25.01	5 14 7.68	27.061	+ 5.0	39.7	11 13	.....	.. ..	....
28	β Leonis	9	44 32.67	+ 0.16	−24.96	23 44 6.18	27.735	+ 23.8	39.1	11 44	.....	.. ..	....
	July 20, Br.												
29	α Tauri............	9	30 47.61	+ 0.11	−25.20	22 32 9.18	27.572	+ 23.1	38.5	4 30	....	.. ..	....
30	ι Aurigæ..........	9	51 6.79	+ 0.35	−25.20	5 50 6.88	28.706	+ 5.7	40.1	4 50	.....	.. ..	....
31	Moon II.........	9	3 14.50	+ 0.12	**−25.19**	21 4	......	..:.	....	5 2 49.43	−72.12	.. ..	....
32	β Orionis..........	9	10 18.64	− 0.19	−25.17	47 10 8.02	25.565	+ 59.7	39.5	5 9	.....	.. ..	....
33	β Tauri	9	20 35.73	+ 0.27	−25.21	10 20 9.75	26.844	+ 10.1	41.2	5 20	.....	.. ..	....
34	δ Orionis..........	9	27 29.12	− 0.10	−25.15	39 14 7.52	25.025	+ 45.2	40.6	5 27	.....	.. ..	....
	July 21, Br.												
35	Sun I, S	9	58 35.49	+ 0.14	**−25.22**	18 30 8.10	26.348	+ 18.4	**40.0**	7 58 10.41	+67.57	+20 21 30.0	....
36	Sun II, N	9	0 50.62	+ 0.14	**−25.22**	17 58 3.98	27.520	+ 17.9	**40.0**	8 0 25.54	−67.56	+20 53 1.2	....
37	α Lyncis	9	15 34.38	+ 0.36	−25.35	4 2 6.28	29.965	+ 3.9	39.8	9 15	.....	.. ..	....
38	α Hydræ..........	9	23 15.28	− 0.14	−25.16	47 4 9.28	29.112	+ 58.9	40.6	9 22	.....	.. ..	....
39	α Leonis	9	3 38.36	+ 0.08	−25.21	26 24 7.22	28.559	+ 27.2	40.6	10 3	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
16 4 31	29.894	69.7	73.3
4 51	......	....	74.0
5 10	29.904	72.9	75.0
5 21	29.908	74.0	75.0
6 59	29.906	76.8	77.8
17 7 42	29.897	78.0	78.4
9 23	29.872	79.1	78.7
9 41	29.868	79.7	79.5
10 4	29.870	80.1	80.0
10 15	29.874	80.8	80.0
10 44	29.876	81.0	79.4
11 9	29.872	80.9	80.0
19 3 42	29.670	70.7	73.0
3 52	......	....	74.0
4 31	29.678	73.0	75.1
4 51	......	....	76.0
5 10	29.684	74.8	76.8
7 27	29.682	80.6	81.3
20 7 57	29.674	81.2	81.6
10 15	29.642	83.9	83.0
10 53	......	....	81.9
11 9	29.634	82.9	82.0
11 45	29.632	83.3	82.1
4 31	29.820	70.6	72.2
5 10	29.828	72.8	73.3
5 21	29.830	73.7	73.8
5 27	29.832	74.0	73.9
21 8 1	29.834	78.3	77.3
9 16	......	....	78.6
9 23	29.818	79.8	79.0
10 4	29.820	80.9	79.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

6, 22.	Bisections at I, II, III.
7, 23, 36.	Bisections at V, VI, VII.
8, 34, 37.	Bisections at VI, VII.
18.	Z. D. thread D₁ used.
28.	Bisections at I, II.
35.	Bisections at I, III.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
5	+ 1.9	....	0.0	+ 1.9
6	+ 2.6	−15 46.3	...	−15 43.7
7	+ 2.6	+15 46.2	...	+15 48.8
12	+ 7.0	− 13.4	...	− 6.4
20	+ 1.8	....	0.0	+ 1.8
22	+ 2.7	+15 46.2	...	+15 48.9
23	+ 2.6	−15 46.3	...	−15 43.7
25	+ 7.6	− 13.9	...	− 6.3
35	+ 2.7	+15 45.6	...	+15 48.3
36	+ 2.7	−15 45.6	...	−15 42.9

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	γ¹ Leonis	9	15 3.41	+ 0.17	−25.25	18 32 5.98	25.762	+ 18.4	39.9	10 14	.....	.. ..	....
2	Venus I, N	9	56 14.09	+ 0.03	**−25.25**	32 28 8.40	28.720	+ 34.7	**40.0**	10 55 48.87	+ 0.94	+ 6 22 5.8	....
3	β Leonis	9	44 32.96	+ 0.13	−25.23	23 44 5.38	27.768	+ 24.0	39.7	11 44	.....	.. ..	....
	July 22, L.												
4	β Orionis	9	9 48.79	− 0.10	+ 4.64	47 10 5.35	25.620	+ 59.9	38.9	5 9	.....	.. ..	....
5	β Tauri	9	20 5.94	+ 0.32	+ 4.58	10 20 7.70	26.869	+ 10.2	39.9	5 20	.....	.. ..	....
6	δ Orionis	9	26 59.31	− 0.02	+ 4.63	39 12 7.00	29.155	+ 45.3	37.9	5 27	.....	.. ..	....
7	α Orionis	9	49 51.41	+ 0.06	+ 4.66	31 28 11.10	26.232	+ 33.9	40.3	5 49	.....	.. ..	....
8	Mercury I, C	4	53 48.47	+ 0.22	+ **4.66**	16 32 6.78	29.018	+ 16.4	**39.8**	7 53 53.35	+ 0.26	+22 18 17.1	....
9	Mercury II	5	53 48.99	+ 0.22	+ **4.66**	... .	......	....	....	7 53 53.87	− 0.26	.. ..	....
	July 23, L.												
10	Sun I, N	9	6 4.67	+ 0.19	+ **4.66**	18 20 7.55	30.273	+ 18.3	**39.8**	8 6 9.52	+67.46	+20 29 38.5	....
11	Sun II, S	9	8 19.60	+ 0.19	+ **4.66**	18 52 9.35	29.178	+ 18.8	**39.9**	8 8 24.45	−67.47	+19 58 7.6	....
12	α Leonis	9	3 8.41	+ 0.11	+ 4.70	26 24 8.82	28.478	+ 27.2	40.0	10 3	.....	.. ..	....
13	γ¹ Leonis	9	14 33.48	+ 0.20	+ 4.65	18 32 6.52	25.690	+ 18.4	41.0	10 14	.....	.. ..	....
14	Venus I, N	9	1 35.02	+ 0.04	+ **4.69**	33 20 9.20	28.528	+ 36.0	**40.5**	11 1 39.75	+ 0.96	+ 5 30 9.7	....
15	δ Leonis	9	8 53.01	+ 0.22	+ 4.73	17 48 10.45	26.882	+ 17.6	40.2	11 8	.....	.. ..	....
16	ν Ursæ Majoris	9	13 10.08	+ 0.40	+ 4.68	5 14 9.48	26.947	+ 5.1	40.5	11 13	.....	.. ..	....
	July 23, Br.												
17	α Tauri	9	30 17.52	+ 0.11	+ 4.97	22 32 15.78	27.335	+ 22.9	38.6	4 30	.....	.. ..	....
18	ι Aurigæ	9	50 36.76	+ 0.33	+ 4.94	5 50 2.62	28.834	+ 5.7	39.5	4 50	.....	.. ..	....
19	β Orionis	9	9 48.50	− 0.17	+ 5.02	47 9 59.22	25.872	+ 59.4	39.7	5 9	.....	.. ..	....
20	β Tauri	9	20 5.64	+ 0.26	+ 4.97	10 20 9.48	26.828	+ 10.1	40.4	5 20	.....	.. ..	....
	July 24, Br.												
21	Sun I, N	9	10 3.09	+ 0.13	+ **5.01**	18 32 5.92	30.660	+ 18.4	**39.4**	8 10 8.23	+67.35	+20 17 28.6	....
22	Sun II, S	9	12 17.78	+ 0.13	+ **5.01**	19 4 7.28	29.663	+ 18.9	**39.4**	8 12 22.92	−67.34	+19 45 55.2	....
23	α Hydræ	9	22 45.07	− 0.15	+ 5.07	47 4 7.78	29.149	+ 58.6	40.1	9 22	.....	.. ..	....
24	ε Leonis	4	40 16.35	+ 0.20	+ 4.93	14 38 9.38	27.240	+ 14.3	39.7	9 40	.....	.. ..	....
25	γ¹ Leonis	9	14 33.11	+ 0.16	+ 5.06	18 32 6.42	25.705	+ 18.3	38.6	10 14	.....	.. ..	....
26	β Leonis	9	44 2.63	+ 0.11	+ 5.09	23 44 8.08	27.618	+ 24.0	38.2	11 44	.....	.. ..	....
27	α¹ Herculis	9	10 10.93	+ 0.06	+ 5.22	24 20 7.12	28.678	+ 25.0	38.0	17 10	.....	.. ..	....
28	θ Ophiuchi	9	16 1.77	− 0.35	+ 5.21	63 44 11.18	26.276	+1 51.4	38.2	17 16	.....	.. ..	....
29	δ Ophiuchi	9	20 25.44	− 0.34	+ 5.14	62 54 10.45	28.559	+1 47.6	38.8	17 20	.....	.. ..	....
30	Uranus C, C	9	25 56.77	− 0.33	+ **5.20**	62 12 6.20	26.598	+1 44.4	**39.2**	17 26 1.64	.....	−23 22 1.7	....
31	μ Herculis	9	42 36.99	+ 0.22	+ 5.25	11 4 6.98	27.886	+ 10.9	39.9	17 42	.....	.. ..	....
32	μ Sagittarii	9	7 56.41	− 0.31	+ 5.20	59 54 6.85	28.776	+1 35.3	40.9	18 8	.....	.. ..	....
33	51 H. Cephei S. P ...	7	55 11.13	−12.92	[+ 4.29]	306 4	......	....	....	6 55	.....	.. ..	....
34	ζ Aquilæ	9	0 54.98	+ 0.06	+ 5.21	25 8	......	....	....	19 1	.....	.. ..	....
35	ι Lyræ	9	3 47.95	+ 0.34	+ 5.27	2 54	......	....	....	19 3	.....	.. ..	....
36	λ Ursæ Minoris	7	19 5.84	+35.64	[+ 6.32]	309 52	......	....	....	19 19	.....	.. ..	....
	July 24, R.												
37	α Tauri	9	30 17.03	+ 0.12	+ 5.48	22 32 3.42	27.699	+ 23.0	36.7	4 30	.....	.. ..	....
38	ι Aurigæ	9	50 36.22	+ 0.36	+ 5.48	5 50 5.40	28.674	+ 5.7	37.7	4 50	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
21 10 15	......	....	80.1
10 56	29.816	82.0	81.0
11 45	29.814	82.0	81.1
22 5 10	29.832	72.1	72.3
5 20	......	....	72.7
5 27	......	....	73.0
5 50	29.838	73.4	73.7
7 54	......	....	77.1
23 8 8	29.838	77.5	77.6
10 3	29.826	80.1	79.3
10 15	......	....	79.4
11 2	.. ..	. ..	79.1
11 9	......	....	79.7
11 13	29.818	80.3	79.6
4 30	29.880	74.0	76.2
4 51	......	....	76.8
5 10	29.888	76.2	77.1
5 [illegible]	29.890	76.9	77.8
24 8 12	29.908	82.0	82.2
9 23	29.908	83.2	83.2
9 40	29.908	83.9	83.9
10 15	29.904	84.1	84.0
11 44	29.896	84.1	82.8
17 10	29.932	78.8	77.2
17 26	29.940	78.1	77.0
18 8	29.948	77.0	76.0
4 30	30.014	73.7	77.0
4 51	......	....	77.6

Micrometer bisections are made at I, II, VI, VII, except as noted below.

8, 22. Bisections at V, VI, VII.
10, 21. Bisections at I, II, III.
11. Bisections at V, VI.
13. Bisection at VI.
13, 16. Z. D. thread D₁ used.
16, 17. Bisections at II, VI, VII.
24. Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 7.8	− 14.1	...	− 6.3
8	+ 1.9	....	0.0	+ 1.9
10	+ 2.7	−15 45.4	...	−15 42.7
11	+ 2.8	+15 45.4	...	+15 48.2
14	+ 8.2	− 14.5	...	− 6.3
21	+ 2.7	−15 46.7	...	−15 44.0
22	+ 2.8	+15 46.6	...	+15 49.4
30	+ 0.4	....	...	+ 0.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Orionis	9	9 48.04	− 0.16	+ 5.49	47 10 4.20	25.638	+ 59.5	38.2	5 9	.....	.. ..	....
2	β Tauri	9	20 5.13	+ 0.29	+ 5.47	10 20 3.25	26.999	+ 10.1	39.1	5 20	.....	.. ..	....
3	ε Orionis	9	31 12.82	− 0.08	+ 5.62	40 6 4.12	28.364	+ 46.5	39.5	5 31	.....	.. ..	....
	July 25, R.												
4	Sun I, N	9	14 0.77	+ 0.18	+ **5.58**	18 46 5.82	27.602	+ 18.6	**38.9**	8 14 6.53	+67.23	+20 4 55.2	....
5	Sun II, S	9	16 15.24	+ 0.18	+ **5.58**	19 18 5.10	26.613	+ 19.2	**38.9**	8 16 21.00	−67.24	+19 33 23.5	....
6	α Leonis	9	3 7.52	+ 0.10	+ 5.60	26 24 7.00	28.522	+ 27.0	39.3	10 3	.....	.. ..	....
7	γ¹ Leonis	8	14 32.51	+ 0.20	+ 5.62	18 32 6.15	25.741	+ 18.3	39.2	10 14	.....	.. ..	....
8	Venus I, N	9	7 12.51	+ 0.03	+ **5.65**	34 12 9.72	27.864	+ 36.9	**39.5**	11 7 18.19	+ 0.99	+ 4 38 26.2	....
9	β Leonis	9	44 1.98	+ 0.14	+ 5.70	23 44 7.15	27.706	+ 23.9	39.7	11 44	.....	.. ..	....
10	η Ophiuchi	9	4 46.61	− 0.22	+ 5.71	54 26 6.80	27.932	+1 16.9	40.6	17 4	.....	.. ..	....
11	θ Ophiuchi	7	16 1.20	− 0.32	+ 5.75	63 44 5.22	26.532	+1 51.2	39.5	17 16	.....	.. ..	....
12	b Ophiuchi	4	20 24.78	− 0.31	+ 5.77	62 54 9.52	28.618	+1 47.4	39.7	17 20	.....	.. ..	....
13	Uranus C, C	9	25 48.87	− 0.30	+ **5.74**	62 12 3.98	26.510	+1 44.2	**40.3**	17 25 54.31	.....	−23 21 55.7	....
14	μ Sagittarii	9	7 55.85	− 0.27	+ 5.72	59 54 5.65	28.841	+1 35.1	41.4	18 8	.....	.. ..	....
15	1 Aquilæ	9	29 53.46	− 0.14	+ 5.74	47 8 8.55	29.108	+ 59.6	40.5	18 29	.....	.. ..	....
16	51 H. Cephei S. P.	7	55 9.49	−12.84	[+ 6.11]	306 4	......	....	....	6 55	.....	.. ..	....
17	ζ Aquilæ	9	0 54.38	+ 0.08	+ 5.79	25 8	......	....	....	19 1	.....	.. ..	....
18	λ Ursæ Minoris	7	19 5.63	+35.51	[+ 6.10]	309 52	......	....	....	19 19	.....	.. ..	....
19	β Sagittæ	4	36 38.86	+ 0.12	+ 5.76	21 36	......	....	....	19 36	.....	.. ..	....
	July 27, Br.												
20	α Tauri	9	30 15.63	+ 0.09	+ 6.99	22 32 7.98	27.558	+ 23.4	37.9	4 30	.....	.. ..	....
21	ι Aurigæ	9	50 34.88	+ 0.34	+ 6.93	5 50 4.60	28.740	+ 5.8	39.0	4 50	.....	.. ..	....
22	β Orionis	9	9 46.64	− 0.20	+ 7.01	47 10 4.52	25.586	+1 0.7	38.7	5 9	.....	.. ..	....
23	β Tauri	9	20 3.73	+ 0.26	+ 6.98	10 20 4.05	26.984	+ 10.3	39.8	5 20	.....	.. ..	....
	July 28, Br.												
24	Sun I, S	9	25 49.98	+ 0.14	+ **7.12**	19 56 2.50	29.952	+ 20.2	**39.3**	8 25 57.24	+67.03	+18 53 50.3	....
25	Sun II, N	9	28 4.03	+ 0.14	+ **7.13**	19 24 6.72	30.762	+ 19.6	**39.3**	8 28 11.30	−67.03	+19 25 23.7	....
26	α Leonis	9	3 5.99	+ 0.06	+ 7.17	26 24 3.95	28.641	+ 27.4	40.0	10 3	.....	.. ..	....
27	γ¹ Leonis	9	14 31.02	+ 0.16	+ 7.14	18 32 5.18	25.771	+ 18.5	39.2	10 14	.....	.. ..	....
28	δ Leonis	9	8 50.50	+ 0.17	+ 7.26	17 48 5.18	27.051	+ 17.7	39.7	11 8	.....	.. ..	....
29	Venus I, N	9	15 13.71	− 0.04	+ **7.24**	35 28 3.78	29.911	+ 39.1	**39.7**	11 15 20.91	+ 1.03	+ 3 21 31.8	....
30	Moon I, N	9	14 53.02	− 0.10	+ **7.29**	41 24 4.28	26.348	+ 48.3	**39.9**	12 15 0.21	+66.65	− 2 32 56.1	....
31	δ² Corvi	8	24 45.14	− 0.24	+ 7.36	54 48 3.68	29.134	+1 17.6	39.8	12 24	.....	.. ..	....
	July 29, L.												
32	ι Aurigæ	9	50 34.01	+ 0.35	+ 7.85	5 49 56.22	29.036	+ 5.6	38.9	4 50	.....	.. ..	....
33	β Orionis	9	9 45.79	− 0.15	+ 7.85	47 10 4.40	25.660	+ 58.7	39.1	5 9	.....	.. ..	....
34	β Tauri	8	20 2.87	+ 0.28	+ 7.88	10 20 0.32	27.126	+ 10.0	39.8	5 20	.....	.. ..	....
35	ε Orionis	9	31 10.63	− 0.08	+ 7.92	40 6 3.60	28.395	+ 45.8	39.7	5 31	.....	.. ..	....
	July 30, L.												
36	Sun I, S	9	33 39.95	+ 0.16	+ **7.89**	20 24 2.05	29.905	+ 20.0	**39.5**	8 33 48.00	+66.92	+18 25 52.5	....
37	Sun II, N	9	35 53.78	+ 0.16	+ **7.89**	19 52 2.05	30.868	+ 19.4	**39.5**	8 36 1.83	−66.91	+18 57 25.7	....
38	Mercury I, C	4	55 14.10	+ 0.17	+ **7.90**	19 38 3.18	27.255	+ 19.1	**39.5**	8 55 22.17	+ 0.20	+19 13 7.8	....
39	Mercury II	5	55 14.49	+ 0.17	+ **7.90**	... .	......	....	....	8 55 22.56	− 0.19	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
24	5	10	30.020	76.0	78.1
	5	20	......	....	78.2
	5	31	30.022	76.9	78.5
25	8	16	30.004	83.1	83.0
	10	3	29.975	86.0	85.6
	10	15	......	....	85.3
	11	14	29.970	87.2	86.0
	11	44	29.960	87.4	86.2
	17	5	29.932	79.3	78.0
	17	26	29.930	78.8	77.2
	18	8	......	....	76.7
	18	30	29.924	77.6	76.1
27	4	30	29.922	65.8	66.0
	4	51	......	....	66.7
	5	10	29.922	67.4	66.9
	5	20	29.926	68.0	67.0
28	8	26	29.915	74.6	74.3
	9	23	29.900	76.5	76.0
	10	3	29.890	77.8	77.2
	10	15	29.890	78.1	77.8
	11	9	......	....	79.0
	11	15	29.876	79.8	79.0
	12	15	......	....	80.0
	12	25	29.866	80.2	79.8
29	4	51	29 736	77.0	80.2
	5	10	......	....	80.9
	5	20	......	....	81.2
	5	31	29.746	79.3	81.9
30	8	34	29.742	87.5	89.0
	8	55	29.740	88.0	89.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

4, 24, 36.	Bisections at I, II, III.
5, 25, 37.	Bisections at V, VI, VII.
11.	Bisections at II, VI, VII.
12.	Bisections at VI, VII.
30.	Bisections at II, III, IV, V, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 2.8	−15 45.8	...	−15 43.0
5	+ 2.9	+15 45.8	...	+15 48.7
8	+ 8.6	− 14.9	...	− 6.3
13	+ 0.4	....	...	+ 0.4
24	+ 3.0	+15 46.7	...	+15 49.7
25	+ 2.9	−15 46.6	...	−15 43.7
29	+ 9.2	− 15.5	...	− 6.3
30	+38 43.5	−16 2.4	...	+22 41.1
36	+ 3.0	+15 46.5	...	+15 49.5
37	+ 2.9	−15 46.6	...	−15 43.7
38	+ 2.2	....	0.0	+ 2.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	δ Leonis..........	4	8 49.82	+ 0.20	+ 7.89	17 48	......	....	....	11 8	.....	.. ..	....
2	Venus I, N.......	9	20 17.24	0.00	+ **7.91**	36 20 1.62	27.046	+ 39.2	**39.5**	11 20 25.15	+ 1.06	+ 2 30 55.4	....
3	β Leonis	9	43 59.72	+ 0.13	+ 7.93	23 44 1.58	27.923	+ 23.5	39.8	11 44	.....	.. ..	....
	August 4, R.												
4	α Orionis..........	9	49 40.81	+ 0.03	+15.59	31 28 4.28	26.444	+ 33.7	40.6	5 49	.....	.. ..	....
5	α Canis Majoris....	9	40 37.67	− 0.26	+15.58	55 24 5.08	29.599	+1 19.5	39.0	6 40	.....	.. ..	....
6	α Canis Minoris....	9	33 58.77	− 0.02	+15.58	33 22 4.58	28.400	+ 36.1	37.6	7 34	.....	.. ..	....
7	β Geminorum......	9	39 7.97	+ 0.27	+15.57	10 36	......	....	....	7 39	.....	.. ..	....
	August 5, R.												
8	Sun I, S.........	9	56 49.92	+ 0.11	+**15.59**	21 56 3.32	27.745	+ 22.0	**39.1**	8 57 5.62	+66.28	+ 16 54 50.2	....
9	Sun II, N........	9	59 2.47	+ 0.11	+**15.59**	21 24 6.18	28.615	+ 21.4	**39.1**	8 59 18.17	−66.27	+ 17 26 23.4	....
10	Venus I, N.......	9	33 47.47	− 0.06	+**15.59**	38 46 3.78	28.650	+ 43.7	**39.1**	11 34 3.00	+ 1.16	+ 0 4 2.6	....
11	α Virginis.........	9	19 51.24	− 0.16	+15.61	49 30 6.45	26.775	+1 3.5	39.6	13 20	.....	.. ..	....
12	η Bootis...........	9	49 49.64	+ 0.16	+15.62	19 58 6.85	27.174	+ 19.8	39.0	13 50	.....	.. ..	....
13	α Bootis...........	9	10 59.97	+ 0.17	+15.56	19 10 9.32	26.650	+ 18.9	38.7	14 11	.....	.. ..	....
	August 5, L.												
14	1 Aquilæ..........	9	29 43.90	− 0.16	+15.29	47 8 8.25	29.051	+ 59.7	39.3	18 29	.....	.. ..	....
15	51 H. Cephei s. p...	7	55 4.39	−14.32	[+15.63]	306 4	......	....	....	6 55	.....	.. ..	....
16	d Sagittarii........	9	11 46.23	− 0.29	+15.26	57 58 6.18	25.616	+1 28.5	39.9	19 12	.....	.. ..	....
17	Moon I, N.......	9	14 45.96	− 0.29	+**15.27**	56 34 5.98	29.975	+1 24.0	**39.2**	19 15 0.94	+63.92	− 17 45 15.7	....
18	Moon S..........	..	.. ..	....	.....	57 4 5.15	29.178	+1 25.6	**39.2**	.. ..	.....	− 18 14 57.2	....
19	λ Ursæ Minoris....	5	18 45.08	+40.01	[+15.61]	309 52	......	....	....	19 19	.....	.. ..	....
20	κ Aquilæ..........	9	31 28.75	− 0.16	+15.25	46 4 6.38	28.770	+ 57.7	39.1	19 31	.....	.. ..	....
21	β Aquilæ..........	9	50 20.96	− 0.02	+15.29	32 40 7.20	28.485	+ 35.7	38.7	19 50	.....	.. ..	....
	August 6, Br.												
22	ε Orionis..........	9	31 3.50	− 0.12	+15.29	40 6 10.80	28.131	+ 46.8	41.5	5 31	.....	.. ..	....
23	α Orionis..........	9	49 41.18	− 0.02	+15.32	31 28 10.90	26.235	+ 34.0	41.8	5 49	.....	.. ..	....
24	γ Geminorum	9	31 52.34	+ 0.10	+15.28	22 22 4.28	27.789	+ 22.9	39.6	6 32	.....	.. ..	....
25	β Geminorum	9	39 8.36	+ 0.26	+15.22	10 36 3.30	26.945	+ 10.4	41.4	7 39	.....	.. ..	....
	August 7, Br.												
26	Sun I, N.........	9	4 31.04	+ 0.10	+**15.26**	21 56 5.30	29.945	+ 22.2	**40.5**	9 4 46.40	+66.15	+ 16 53 46.9	....
27	Sun II, S........	9	6 43.34	+ 0.10	+**15.26**	22 28 6.82	28.985	+ 22.8	**40.5**	9 6 58.70	−66.15	+ 16 22 12.3	....
28	δ Leonis	8	8 42.46	+ 0 17	+15.25	17 48 4.32	27.126	+ 17.7	40.6	11 8	.....	.. ..	....
29	ν Ursæ Majoris....	9	12 59.48	+ 0.36	+15.22	5 14 2.70	27.312	+ 5.1	40.3	11 13	.....	.. ..	....
30	Venus I, N	9	37 45.34	− 0.08	+**15.24**	39 32 6.02	30.255	+ 45.4	**39.9**	11 38 0.50	+ 1.19	− 0 42 46.3	....
31	β Leonis	9	43 52.29	+ 0.10	+15.34	23 44 5.52	27.756	+ 24.2	39.7	11 44	.....	.. ..	....
32	α Canum Venat....	9	51 14.51	+ 0.46	+15.15	0 0 5.55	28.940	+ 0.1	39.1	12 51	.....	.. ..	....
33	β Lyræ............	9	46 17.31	+ 0.35	+15.19	5 36	......	....	....	18 46	.....	.. ..	....
34	51 H. Cephei s. p...	8	55 6.85	−15.08	[−14.61]	306 4	......	....	....	6 55	.....	.. ..	....
35	ι Lyræ............	9	3 37.91	+ 0.40	+15.17	2 54	......	....	....	19 3	.....	.. ..	....
36	λ Ursæ Minoris....	7	18 41.80	+41.68	[+15.58]	309 52	......	....	....	19 19	.....	.. ..	....
37	α^2 Capricorni.......	9	12 29.02	− 0.26	+15.18	51 40 7.65	28.500	+1 11.4	39.1	20 12	.....	.. ..	....
38	π Capricorni.......	9	21 34.93	− 0.33	+15.19	57 22 3.50	26.020	+1 28.0	38.1	20 21	.....	.. ..	....
39	Saturn I, S	4	31 12.67	− 0.34	+**15.19**	58 24 6.88	27.055	+1 31.6	**38.6**	20 31 27.52	+0.74	−19 34 3.2	....
40	Saturn II, N.....	5	31 14.15	− 0.34	+**15.19**	58 24 6.88	26.488	+1 31.6	**38.6**	20 31 29.00	−0.74	−19 33 47.2	....
41	ψ Capricorni.......	9	40 10.13	− 0.42	+15.22	64 26 6.58	27.801	+1 57.6	39.0	20 40	.....	.. ..	....
42	μ Aquarii..........	9	47 13.89	− 0.22	+15.16	48 10 5.32	29.029	+1 3.1	38.4	20 47	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
30 11 20	29.700	91.8	91.3
11 44	29.682	92.2	91.3
4 5 50	29.714	73.2	74.7
6 41	29.730	76.0	76.6
7 34	......	....	78.2
7 43	29.737	78.7	....
5 8 59	29.740	79.7	79.3
11 34	29.728	82.3	81.1
13 20	29.714	83.0	81.7
13 50	......	....	81.7
14 8	29.714	82.4	82.0
18 30	29.758	74.2	72.0
19 12	......	....	70.9
19 50	29.760	72.3	69.9
6 5 31	29.754	69.3	70.2
5 50	29.750	70.6	71.0
6 32	29.770	72.6	72.1
7 39	29.778	74.0	73.5
7 9 7	29.770	75.4	75.1
11 9	......	....	76.5
11 13	29.770	77.9	76.6
11 38	......	...	76.9
11 44	29.776	78.0	76.7
12 51	29.778	77.6	75.5
20 12	29.846	66.0	64.1
20 40	......	....	64.1

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3.	Bisections at I, II, VI.
6.	Bisections at II, VI, VII.
8.	Bisection at I.
9.	Bisection at VII.
17, 26.	Bisections at I, II, III.
18, 27.	Bisections at V, VI, VII.
39.	Bisections at I, VII.
40.	Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
2	+ 9.7	− 15.9	...	− 6.2
8	+ 3.2	+15 46.6	...	+15 49.8
9	+ 3.2	−15 46.6	...	−15 43.4
10	+ 11.2	− 17.4	...	− 6.2
17	+44 57.5	−14 43.1	...	+30 14.4
18	+45 13.0	+14 43.1	− 0.2	+59 55.9
26	+ 3.2	−15 47.3	...	−15 44.1
27	+ 3.3	+15 47.2	...	+15 50.5
30	+ 11.8	− 17.9	...	− 6.1
39	+ 0.8	+ 8.0	...	+ 8.8
40	+ 0.8	− 8.0	...	− 7.2

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	Moon I, N.......	9	54 33.48	− 0.28	**+15.19**	52 16 10.05	28.678	+1 12.9	**38.6**	20 54 48.39	+62.61	−13 26 34.1	....
2	ζ Capricorni.......	9	20 56.59	− 0.39	+15.20	61 40 6.38	25.482	+1 44.4	38.2	21 21	.....	.. ..	....
	August 9, Br.												
3	α² Capricorni.......	7	12 29.34	− 0.25	+14.85	51 40 8.75	28.538	+1 10.0	40.2	20 12	.....	.. ..	....
4	π Capricorni.......	9	21 35.22	− 0.32	+14.89	57 22 5.50	26.044	+1 26.3	39.1	20 21	.....	.. ..	....
5	Saturn I, N......	4	30 37.41	− 0.33	**+14.88**	58 26 6.92	27.130	+1 29.9	**39.9**	20 30 51.96	+ 0.70	−19 36 2.4	....
6	Saturn II, S	5	30 38.82	− 0.33	**+14.88**	58 26 6.92	27.710	+1 30.0	**39.9**	20 30 53.37	− 0.71	−19 36 19.1	....
7	ψ Capricorni.......	9	40 10.45	− 0.40	+14.90	64 26 10.00	27.804	+1 55.4	40.3	20 40	.....	.. ..	....
8	μ Aquarii..........	9	47 14.19	− 0.21	+14.87	48 10 7.18	29.038	+1 1.9	39.6	20 47	.....	.. ..	....
9	Moon II, N......	9	33 0.85	− 0.19	**+14.85**	45 38 6.55	29.359	+ 56.9	**39.9**	22 33 15.51	−61.81	−6 48 32.7	....
10	λ Aquarii..........	9	47 21.88	− 0.20	+14.83	46 56 7.88	26.756	+ 59.5	40.3	22 47	.....	.. ..	....
11	φ Aquarii..........	9	9 6.44	− 0.18	+14.85	45 24 8.00	28.058	+ 56.4	39.6	23 9	.....	.. ..	....
12	θ Piscium	9	22 51.27	− 0.05	+14.81	33 0 5.12	26.680	+ 36.2	40.2	23 23	.....	.. ..	....
13	Jupiter I, N	4	33 6.74	− 0.16	**+14.83**	43 16 7.28	29.530	+ 52.4	**39.9**	23 33 21.41	+ 1.60	− 4 26 33.8	....
14	Jupiter II, S	5	33 9.94	− 0.16	**+14.83**	43 16 7.28	31.150	+ 52.4	**39.9**	23 33 24.61	− 1.60	− 4 27 20.0	....
15	i¹ Aquarii..........	9	38 58.72	− 0.32	+14.86	57 38 6.20	28.240	+1 27.7	39.8	23 39	.....	.. ..	....
	August 9, L.												
16	α Orionis..........	9	49 41.83	+ 0.05	+14.67	31 28 7.50	26.281	+ 34.7	40.7	5 49	.....	.. ..	....
17	μ Geminorum	9	16 52.08	+ 0.23	+14.64	16 18 3.35	26.200	+ 16.2	38.8	6 17	.....	.. ..	....
18	γ Geminorum	9	31 52.92	+ 0.16	+14.71	22 22 5.25	27.686	+ 22.7	37.6	6 32	.....	.. ..	....
19	β Geminorum	9	39 9.00	+ 0.31	+14.59	10 36 7.75	26.760	+ 10.3	40.3	7 39	.....	.. ..	....
	August 10, L.												
20	Sun I, N.........	9	15 58.50	+ 0.15	**+14.63**	22 48 5.42	27.638	+ 23.0	**39.7**	9 16 13.28	+65.91	+16 2 50.9	....
21	Sun II, S	9	18 10.32	+ 0.15	**+14.63**	23 20 5.62	26.780	+ 23.5	**39.7**	9 18 25.10	−65.91	+15 31 14.8	....
22	δ Leonis	9	8 43.04	+ 0.21	+14.62	17 48 7.68	26.944	+ 17.5	40.7	11 8	.....	.. ..	....
23	Venus I, N	9	43 5.60	− 0.04	**+14.60**	40 40 7.58	29.345	+ 46.7	**40.0**	11 43 20.16	+ 1.25	− 1 50 23.2	....
24	ζ Virginis	9	29 32.07	− 0.03	+14.55	38 56 5.40	28.775	+ 44.0	40.9	13 29	.....	.. ..	....
25	η Bootis...........	9	49 50.57	+ 0.18	+14.60	19 58 11.98	27.015	+ 19.8	39.6	13 50	.....	.. ..	....
26	α Bootis...........	9	11 0.84	+ 0.19	+14.59	19 10 11.15	26.611	+ 19.0	39.5	14 11	.....	.. ..	....
	August 11, Br.												
27	φ Aquarii..........	9	9 6.96	− 0.20	+14.38	45 24 4.65	28.148	+ 56.4	39.0	23 9	.....	.. ..	....
28	θ Piscium	9	22 51.73	− 0.06	+14.40	33 0 6.02	26.601	+ 36.2	39.2	23 23	.....	.. ..	....
29	Jupiter I, S......	5	32 29.86	− 0.18	**+14.40**	43 22 3.80	28.180	+ 52.6	**39.3**	23 32 44.08	+ 1.62	− 4 31 52.7	....
30	Jupiter II, N.....	5	32 33.11	− 0.18	**+14.40**	43 22 3.80	26.512	+ 52.6	**39.3**	23 32 47.33	− 1.63	− 4 31 5.2	....
31	i¹ Aquarii..........	9	38 59.23	− 0.35	+14.42	57 38 1.62	28.396	+1 27.8	39.9	23 39	.....	.. ..	....
32	ω Piscium	9	54 8.58	− 0.05	+14.41	32 30 4.05	29.252	+ 35.6	39.3	23 54	.....	.. ..	....
33	Moon II, N......	9	8 38.78	− 0.12	**+14.41**	37 46 4.32	29.000	+ 43.3	**39.3**	0 8 53.07	−62.35	+ 1 3 52.7	....
34	6 B. Ursæ Minoris s. P.	6	13 45.88	−23.86	[+13.96]	307 6	......	....	....	12 13	.....	.. ..	....
35	12 Ceti	9	24 53.98	− 0.18	+14.42	43 20 6.62	26.739	+ 52.7	38.3	0 25	.....	.. ..	....
36	δ Piscium	9	43 27.56	− 0.04	+14.39	31 46 5.82	29.648	+ 34.7	40.1	0 43	.....	.. ..	....
37	ε Piscium	9	57 43.01	− 0.04	+14.42	31 28 6.82	28.294	+ 34.3	39.9	0 57	.....	.. ..	....
38	f Piscium	9	12 36.13	− 0.09	+14.43	35 44 5.98	27.754	+ 40.3	38.8	1 12	.....	.. ..	....
39	α Ursæ Minoris	6	24 12.77	+34.24	[+13.07]	310 4	......	....	....	1 25	.....	.. ..	....
	August 11, R.												
40	ε Orionis..........	9	31 4.44	− 0.12	+14.47	40 6 5.32	28.195	+ 47.2	38.8	5 31	.....	.. ..	....
41	κ Orionis..........	9	42 56.21	− 0.22	+14.49	48 32 6.88	28.372	+1 3.3	38.0	5 43	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
7 20 55	29.852	65.7	64.0
21 21	29.856	65.5	64.0
9 20 12	29.730	73.6	72.0
20 47	29.736	72.7	71.7
22 33	29.738	70.8	69.6
22 47	......	....	69.6
23 39	29.736	70.1	69.0
5 50	29.830	72.7	73.2
6 17	......	....	74.8
6 32	29.838	74.8	75.8
7 39	29.856	78.1	79.3
10 9 18	29.850	82.0	82.0
11 9	29.828	82.9	82.8
11 43	......	....	83.7
13 30	29.804	82.8	81.7
13 50	......	....	81.1
14 11	29.794	81.9	81.1
11 23 9	29.716	70.2	69.0
23 23	......	....	69.0
23 39	......	....	68.2
23 54	29.726	69.8	68.1
0 43	29.730	68.1	66.3
1 13	29.738	67.2	65.9
5 31	29.808	67.5	67.0
5 43	......	....	67.9

Micrometer bisections are made at I, II, VI, VII, except as noted below.

1, 9, 33. Bisections at II, III, IV, V, VI.
3. Bisections at VI, VII.
5, 13, 29. Bisections at I, VII.
6, 14, 30. Bisections at II, VI.
19, 41. Bisections at II, VI, VII.
20. Bisections at I, II, III.
21. Bisections at V, VI, VII.
22, 24. Z. D. thread D_1 used.
23. Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
1	+42 37.4	−14 45.1	...	+27 52.3
5	+ 0.8	− 8.4	...	− 7.6
6	+ 0.8	+ 8.3	...	+ 9.1
9	+38 48.7	−14 51.8	...	+23 56.9
13	+ 1.4	− 23.1	...	− 21.7
14	+ 1.4	+ 23.1	...	+ 24.5
20	+ 3.4	−15 48.1	...	−15 44.7
21	+ 3.4	+15 48.0	...	+15 51.4
23	+ 12.6	− 18.8	...	− 6.2
29	+ 1.5	+ 23.8	...	+ 25.3
30	+ 1.5	− 23.7	...	− 22.2
33	+33 42.5	−15 4.7	...	+18 37.8

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Orionis..........	9	49 42.12	− 0.01	+14.49	31 28 5.85	26.290	+ 34.2	38.9	5 49	.....	.. ..	....
2	μ Geminorum	9	16 52.28	+ 0.19	+14.53	16 18 7.40	26.025	+ 16.4	38.0	6 17	.....	.. ..	....
3	γ Geminorum	5	31 53.23	+ 0.11	+14.49	22 22 4.22	27.660	+ 23.0	36.4	6 32	.....	.. ..	....
	August 12, R.												
4	Sun I, N.........	9	23 33.86	+ 0.09	**+14.46**	23 22 6.60	30.078	+ 24.0	**37.7**	9 23 48.41	+65.70	+15 27 37.2	....
5	Sun II, S.........	9	25 45.26	+ 0.09	**+14.46**	23 54 8.12	29.232	+ 24.6	**37.6**	9 25 59.81	−65.70	+14 55 59.3	....
6	Mercury I, C	9	29 44.42	+ 0.04	**+14.45**	28 14 5.58	28.820	+ 29.8	**37.5**	10 29 58.91	+ 0.18	+10 36 8.2	....
7	δ Leonis	9	8 43.26	+ 0.18	+14.43	17 48 4.40	27.035	+ 17.8	37.9	11 8	.....	.. ..	....
8	β Leonis	9	43 53.13	− 0.10	+14.47	23 44 6.68	27.618	+ 24.3	36.9	11 44	.....	.. ..	....
9	Venus I, N	9	46 12.46	− 0.12	**+14.43**	41 24 6.68	27.169	+ 48.7	**37.4**	11 46 26.77	+ 1.29	− 2 33 24.8	....
10	α Canum Venat....	7	51 15.19	+ 0.48	+14.37	0 0 1.82	29.010	+ 0.1	37.2	12 51	.....	.. ..	....
11	ε Virginis	9	57 7.64	+ 0.06	+14.45	27 22 5.75	27.466	+ 28.6	37.4	12 57	.....	.. ..	...
12	φ Aquarii..........	9	9 7.04	− 0.19	+14.31	45 24 4.68	28.064	+ 57.3	37.6	23 9	.....	.. ..	....
13	θ Piscium	9	22 51.84	− 0.04	+14.28	33 0 5.65	26.559	+ 36.7	38.2	23 23	.....	.. ..	....
14	Jupiter I, N......	5	32 10.39	− 0.16	**+14.29**	43 24 5.72	27.170	+ 53.3	**37.8**	23 32 24.52	+ 1.62	− 4 33 28.0	....
15	Jupiter II, S.....	5	32 13.64	− 0.16	**+14.29**	43 24 5.72	28.792	+ 53.3	**37.8**	23 32 27.77	− 1.63	− 4 34 14.3	....
16	ω Piscium	9	54 8.71	− 0.03	+14.28	32 30 6.72	29.075	+ 36.0	37.7	23 54	.....	.. ..	....
	August 16, R.												
17	α Tauri.............	9	30 10.08	+ 0.13	+13.09	22 32 2.52	27.650	+ 23.4	36.9	4 30	.....	.. ..	....
18	Moon II, N......	9	35 56.53	+ 0.14	**+13.10**	21 32 3.30	27.423	+ 22.3	**38.8**	4 36 9.77	−70.14	+17 18 59.1	....
19	ι Aurigæ............	9	50 29.37	+ 0.38	+13.05	5 50 2.40	28.785	+ 5.8	38.9	4 50	.....	.. ..	....
20	β Orionis...........	9	9 41.02	− 0.17	+13.11	47 10 1.98	25.560	+1 0.6	38.3	5 9	.....	.. ..	....
21	β Tauri.	9	19 58.17	+ 0.31	+13.09	10 20 5.48	26.897	+ 10.3	39.3	5 20	.....	.. ..	....
22	α Orionis..........	9	49 43.56	+ 0.02	+13.14	31 28 4.95	26.345	+ 34.3	40.0	5 49	.....	.. ..	....
23	β Geminorum	8	39 10.66	+ 0.31	+13.06	10 36 1.52	26.941	+ 10.5	39.0	7 39	.....	.. ..	....
	August 17, R.												
24	Sun I, S.........	9	42 23.52	+ 0.12	**+13.06**	25 26 1.80	30.023	+ 26.4	**38.3**	9 42 36.70	+65.26	+13 23 41.8	....
25	Sun II, N.........	9	44 34.04	+ 0.12	**+13.06**	24 54 2.30	30.740	+ 25.7	**38.3**	9 44 47.22	−65.26	+13 55 21.8	....
26	Venus I, N	9	52 17.61	− 0.07	**+13.05**	43 2 5.75	28.735	+ 51.4	**38.1**	11 52 30.59	+ 1.40	− 4 12 10.4	....
27	α Bootis............	9	11 2.31	+ 0.20	+13.01	19 10 7.20	26.680	+ 19.2	37.6	14 11	.....	.. ..	....
28	ρ Bootis............	9	27 26.71	+ 0.36	+13.08	8 2 5.72	29.914	+ 7.9	37.7	14 27	.....	.. ..	....
29	ε Bootis............	9	40 33.02	+ 0.31	+13.04	11 22 5.40	27.382	+ 11.1	37.9	14 40	.....	.. ..	....
30	α^2 Libræ............	9	45 20.03	− 0.19	+13.00	54 28 7.75	28.230	+1 17.0	38.2	14 45	.....	.. ..	....
	August 20, Br.												
31	β Lyræ	9	46 20.56	+ 0.29	+11.84	5 36	......	....	....	18 46	.....	.. ..	....
32	51 H. Cephei S. P....	9	55 14.00	−14.47	[+11.46]	306 4	......	....	....	6 55	.....	.. ..	....
33	ι Lyræ	9	3 41.15	+ 0.34	+11.83	2 54	......	....	....	19 3	.....	.. ..	....
34	λ Ursæ Minoris....	9	18 35.78	+39.89	[+12.18]	309 52	......	....	....	19 19	.....	.. ..	....
35	α^2 Capricorni.......	9	12 32.37	− 0.29	+11.85	51 40 8.20	28.486	+1 10.6	38.8	20 12	.....	.. ..	....
36	π Capricorni.......	9	21 38.34	− 0.36	+11.82	57 22 7.78	25.858	+1 27.0	36.7	20 21	.....	.. ..	....
37	Saturn I, N	4	27 33.57	− 0.38	**+11.84**	58 38 9.22	26.220	+1 31.5	**37.8**	20 27 45.03	+ 0.73	−19 47 42.4	....
38	Saturn II, S......	5	27 35.04	− 0.38	**+11.84**	58 38 9.22	26.825	+1 31.5	**37.8**	20 27 46.50	− 0.74	−19 47 59.8	....
39	α Delphini	9	34 59.47	+ 0.04	+11.83	23 16 9.20	27.949	+ 24.1	37.6	20 35	.....	.. ..	....
40	ψ Capricorni.......	9	40 13.53	− 0.45	+11.89	64 26 8.08	27.772	+1 56.5	38.1	20 40	.....	.. ..	....
41	μ Aquarii..........	9	47 17.31	− 0.25	+11.81	48 10 9.55	28.851	+1 2 5	37.7	20 47	.....	.. ..	....

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	in.	°	°
11	5	50	29.810	68.2	68.2
	6	17	....	....	69.6
	6	32	29.826	70.0	69.8
12	9	24	29.838	74.0	73.9
	10	30	29.830	75.0	73.9
	11	9	29.828	75.2	73.2
	11	46	29.829	76.1	74.9
	12	51	....	....	74.9
	12	57	29.819	76.6	75.0
	23	9	29.874	66.0	64.1
	23	23	....	....	64.7
	23	32	....	....	65.1
	0	14	29.877	65.7	65.1
16	4	37	29.870	65.0	65.3
	4	50	29.884	65.4	66.2
	5	10	....	....	67.0
	5	20	29.895	66.4	67.7
	5	50	29.897	67.5	69.0
	7	39	29.910	72.3	71.9
17	9	42	29.908	75.2	75.5
	11	52	29.888	78.4	77.5
	14	11	29.874	78.3	77.0
	14	27	....	....	76.8
	14	41	....	....	76.8
	14	45	29.882	78.1	76.9
20	20	13	29.732	69.6	67.8
	20	47	29.742	68.5	66.3

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 10, 16. Bisections at VI, VII.
4, 24. Bisections at I, II, III.
5, 25. Bisections at V, VI, VII.
14, 37. Bisections at I, VII.
15, 38. Bisections at II, VI.
18. Bisections at II, III, IV, V, VI.
19, 21. Bisections at II, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
4	+ 3.4	−15 48.9	...	−15 45.5
5	+ 3.5	+15 48.9	...	+15 52.4
6	+ 3.2	....	− 0.1	+ 3.1
9	+ 13.2	− 19.4	...	− 6.2
14	+ 1.5	− 23.1	...	− 21.6
15	+ 1.5	+ 23.2	...	+ 24.7
18	+21 27.1	−16 3.6	...	+ 5 23.5
24	+ 3.7	+15 50.0	...	+15 53.7
25	+ 3.7	−15 50.0	...	−15 46.3
26	+ 14.8	− 21.0	...	− 6.2
37	+ 0.9	− 8.7	...	− 7.8
38	+ 0.9	+ 8.7	...	+ 9.6

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
	August 20, R.		m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	η Geminorum	9	8 51.13	+ 0.21	+11. 76	16 20 3.38	25.504	+ 16.5	37. 1	6 9	.....	.. ..	....
2	μ Geminorum	9	16 55.24	+ 0.21	+11. 78	16 17 59.70	26.291	+ 16.5	38. 0	6 17	.....	.. ..	....
3	γ Geminorum	9	31 56.12	+ 0.12	+11. 80	22 22 3.20	27.704	+ 23.1	36. 6	6 32	.....	.. ..	....
4	ε Geminorum	9	37 47.51	+ 0.26	+11. 70	13 38 3.00	26.692	+ 13.7	38. 2	6 37	.....	.. ..	....
5	β Geminorum	9	39 12.08	+ 0.31	+11. 72	10 36 2.40	26.919	+ 10.5	39. 0	7 39	.....	.. ..	....
	August 21, R.												
6	Sun I, N.........	9	57 18.28	+ 0.09	+**11.71**	26 12 1.72	30.170	+ 27.3	**37.8**	9 57 30.08	+65.02	+12 37 36.3	....
7	Sun II, S.........	9	59 28.33	+ 0.09	+**11.71**	26 44 2.65	29.440	+ 27.9	**37.8**	9 59 40.13	−65.03	+12 5 55.8	....
8	δ Leonis	8	8 45.99	+ 0.21	+11. 65	17 48 6.85	26.960	+ 17.8	37. 7	11 8	.....	.. ..	....
9	Mercury I, C	9	21 42.23	− 0.01	+**11.69**	34 44 4.00	27.532	+ 38.3	**37.8**	11 21 53.91	+ 0.19	+ 4 6 38.3	....
10	β Leonis	9	43 55.81	+ 0.13	+11. 71	23 44 6.60	27.635	+ 24.3	37. 0	11 44	.....	.. ..	....
11	Venus I, N	9	55 12.06	− 0.12	+**11.69**	44 10 6.80	28.444	+ 53.5	**37.8**	11 55 23.63	+ 1.50	− 5 20 5.6	....
12	α Canum Venat....	8	51 17.78	+ 0.51	+11. 63	0 0 0.55	29. 125	+ 0.1	37. 8	12 51	.....	.. ..	....
13	α Virginis.........	9	19 54.94	− 0.18	+11. 74	49 30 6.20	26.679	+1 4.4	38. 6	13 20	.....	.. ..	....
14	51 H. Cephei s. P...	9	55 15.39	−15.37	[+11. 39]	306 4	......	....	....	6 55	.....	.. ..	....
15	ζ Aquilæ..........	9	0 48.44	+ 0.06	+11. 61	25 8	......	....	....	19 1	.....	.. ..	....
16	λ Ursæ Minoris	7	18 33.14	+42.57	[+11. 07]	309 52	......	....	....	19 19	.....	.. ..	....
17	κ Aquilæ..........	9	31 32.44	− 0.20	+11.55	46 4	......	....	....	19 31	.....	.. ..	....
18	α² Capricorni.......	9	12 32.67	− 0.26	+11. 52	51 40 5.35	28.568	+1 11.2	39. 0	20 12	.....	.. ..	....
19	π Capricorni.......	9	21 38.60	− 0.34	+11. 53	57 22 5.48	25.950	+1 27.8	37. 8	20 21	.....	.. ..	....
20	Saturn I, N......	4	27 17.87	− 0.35	+**11.55**	58 38 11.50	28.205	+1 32.2	**38.6**	20 27 29.07	+ 0.61	−19 48 41.2	....
21	Saturn II, S	5	27 19.08	− 0.35	+**11.55**	58 38 11.50	28.802	+1 32.3	**38.6**	20 27 30.28	− 0.60	−19 48 58.4	....
22	ψ Capricorni.......	9	40 13.82	− 0.44	+11. 59	64 26 8.78	27.766	+1 57.4	39. 4	20 40	.....	.. ..	....
23	μ Aquarii..........	9	47 17.53	− 0.22	+11. 56	48 10 5.45	28.994	+1 3.0	38. 2	20 47	.....	.. ..	....
	August 21, Br.												
24	α Orionis..........	9	49 45.60	− 0.01	+11. 26	31 28 7.80	26.158	+ 34.3	38. 0	5 49	.....	.. ..	....
25	η Geminorum	9	8 51.66	+ 0.20	+11. 27	16 20 6.88	25.388	+ 16.4	37. 2	6 9	.....	.. ..	....
26	μ Geminorum	9	16 55.83	+ 0.20	+11. 23	16 18 8.15	25.988	+ 16.3	37. 6	6 17	.....	.. ..	....
27	γ Geminorum	9	31 56.68	+ 0.11	+11. 28	22 22 7.92	27.540	+ 22.9	36. 4	6 32	.....	.. ..	....
28	ε Geminorum	9	37 48.03	+ 0.24	+11. 23	13 38 6.82	26.560	+ 13.5	38. 1	6 37	.....	.. ..	....
	August 22, Br.												
29	Sun I, S.........	9	1 0.90	+ 0.05	+**11.21**	27 4 9.05	29.180	+ 27.7	**38.6**	10 1 12.16	+64.96	+11 45 57.5	....
30	Sun II, N	8	3 10.81	+ 0.05	+**11.21**	26 32 3.15	30.065	+ 27.1	**38.6**	10 3 22.07	−64.95	+12 17 39.1	....
31	Mercury I, C	9	26 55.42	− 0.04	+**11.19**	35 26 6.70	28.351	+ 38.5	**39.1**	11 27 6.57	+ 0.19	+ 3 24 13.4	....
32	β Leonis	9	43 56.40	+ 0.09	+11. 15	23 44 7.60	27.700	+ 23.8	39. 3	11 44	.....	.. ..	....
33	Venus I, N	9	55 37.89	− 0.14	+ **11.18**	44 26 8.38	26.631	+ 52.9	**39.2**	11 55 48.93	+ 1.53	− 5 35 13.5	....
34	α Canum Venat....	9	51 18.34	+ 0.43	+11. 14	0 0 10.05	28.848	+ 0.1	39. 3	12 51	.....	.. ..	....
35	ε Virginis..........	9	57 10.82	+ 0.05	+11. 17	27 22 9.85	27.401	+ 28.0	38. 9	12 57	.....	.. ..	....
36	α Virginis.........	9	19 55.44	− 0.19	+11. 23	49 30 11.20	26.605	+1 3.1	40. 3	13 20	.....	.. ..	....
37	β Lyræ............	9	46 21.26	+ 0.33	+11.07	5 36	......	....	....	18 46	.....	.. ..	....
38	51 H. Cephei s. P...	9	55 15.22	−13.68	[+10. 28]	306 4	......	....	....	6 55	.....	.. ..	....
39	ι Lyræ............	9	3 41.84	+ 0.37	+11. 08	2 54	......	....	....	19 3	.....	.. ..	....
40	λ Ursæ Minoris....	9	18 36.56	+37.91	[+11. 28]	309 52	......	....	....	19 19	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
20 6 9	29. 872	64.8	66. 4
6 17	......	....	66. 9
6 32	......	....	67. 7
6 38	29. 880	67. 0	67. 8
7 39	29. 904	70. 5	71. 7
21 9 57	29. 908	75. 2	75. 1
11 9	29. 902	76. 7	76. 1
11 22	......	....	76. 3
11 44	29. 894	77. 4	76. 7
11 55	......	....	77. 2
12 13	29. 894	78. 4	....
12 51	29. 884	79. 3	77. 4
13 20	29. 877	78. 9	77. 2
20 13	29. 856	67. 0	65. 5
20 27	......	....	65. 3
20 47	29. 850	66. 4	65. 1
5 50	29. 806	65. 2	68. 1
6 9	......	....	69. 2
6 17	29. 806	67. 3	69. 8
6 32	......	....	71. 1
6 38	29. 808	69. 0	71. 8
22 10 1	29. 786	81. 5	84. 2
11 27	29. 774	84. 2	85. 2
11 44	......	....	85. 2
11 56	29. 768	85. 1	85. 7
12 57	29. 756	86. 5	85. 6
13 20	29. 756	86. 7	85. 5

Micrometer bisections are made at I, II, VI, VII, except as noted below.

6, 29.	Bisections at I, II, III.
7, 30.	Bisections at V, VI, VII.
8.	Bisections at II, VI, VII.
20.	Bisections at I, VII.
21.	Bisections at II, VI.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 3.8	−15 50.2	...	−15 46.4
7	+ 3.9	+15 50.2	...	+15 54.1
9	+ 4.2	....	− 0.2	+ 4.0
11	+ 16.0	− 22.4	...	− 6.4
20	+ 0.9	− 8.6	...	− 7.7
21	+ 0.9	+ 8.6	...	+ 9.5
29	+ 4.0	+15 50.7	...	+15 54.7
30	+ 3.9	−15 50.8	...	−15 46.9
31	+ 4.3	....	− 0.2	+ 4.1
33	+ 16.3	− 22.7	...	− 6.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α^2 Capricorni	9	12 33.10	− 0.22	+11.05	51 40 9.15	28.532	+1 9.7	40.3	20 12	.....	.. ..	....
2	π Capricorni	9	21 39.07	− 0.29	+11.01	57 22 5.75	26.058	+1 26.0	39.2	20 21	.....	.. ..	....
3	Saturn I, S	4	27 2.44	− 0.30	**+11.05**	58 40 11.15	26.770	+1 30.4	**39.8**	20 27 13.19	+ 0.73	−19 49 56.9	....
4	Saturn II, N	5	27 3.91	− 0.30	**+11.05**	58 40 11.15	26.142	+1 30.4	**39.8**	20 27 14.66	− 0.74	−19 49 39.2	....
5	α Delphini	9	35 0.15	+ 0.09	+11.09	23 16 8.10	28.065	+ 23.8	40.2	20 35	.....	.. ..	....
6	μ Aquarii	9	47 17.99	− 0.18	+11.06	48 10 9.28	28.952	+1 1.7	39.5	20 47	.....	.. ..	....
	August 23, R.												
7	δ Geminorum	9	14 10.57	+ 0.22	+10.50	16 42 5.55	26.398	+ 16.4	36.4	7 14	.....	.. ..	....
8	α^2 Geminorum	9	28 15.28	+ 0.38	+10.45	6 44 6.08	30.172	+ 6.5	37.9	7 28	.....	.. ..	....
9	α Canis Minoris	9	34 4.26	0.00	+10.42	33 22 1.58	28.441	+ 35.9	36.5	7 34	.....	.. ..	....
10	β Geminorum	9	39 13.46	+ 0.32	+10.41	10 36 5.42	26.818	+ 10.2	38.6	7 39	.....	.. ..	....
	August 24, R.												
11	Sun I, S	9	8 24.70	+ 0.07	**+10.45**	27 46 5.68	26.032	+ 28.4	**37.8**	10 8 35.22	+64.80	+11 5 29.1	....
12	Sun II, N	9	10 34.30	+ 0.07	**+10.45**	27 14 3.40	26.785	+ 27.8	**37.8**	10 10 44.82	−64.80	+11 37 10.8	....
13	Venus I, N	9	56 6.50	− 0.14	**+10.46**	44 54 4.20	26.112	+ 53.5	**38.1**	11 56 16.82	+ 1.58	− 6 2 56.2	....
14	α Virginis	9	19 56.18	− 0.20	+10.48	49 30 8.55	26.665	+1 2.7	39.1	13 20	.....	.. ..	....
15	η Bootis	9	49 54.48	+ 0.17	+10.50	19 58 8.15	27.133	+ 19.5	38.3	13 50	.....	.. ..	....
16	α Bootis	9	11 4.80	+ 0.18	+10.43	19 10 7.00	26.731	+ 18.7	38.3	14 11	.....	.. ..	....
17	ε Bootis	9	40 35.51	+ 0.30	+10.43	11 22 5.35	27.400	+ 10.8	37.9	14 40	.....	.. ..	....
18	51 H. Cephei S. P	9	55 17.17	−15.64	[+11.05]	306 4	......	....	....	6 55	.....	.. ..	....
19	ζ Aquilæ	9	0 49.68	+ 0.08	+10.32	25 8	......	....	....	19 1	.....	.. ..	....
20	λ Ursæ Minoris	7	18 32.16	+43.35	[+ 8.34]	309 52	......	....	....	19 19	.....	.. ..	....
21	κ Aquilæ	9	31 33.59	− 0.18	+10.36	46 4	......	....	....	19 31	.....	.. ..	....
22	α^2 Capricorni	9	12 33.91	− 0.25	+10.25	51 40 9.45	28.511	+1 9.2	39.5	20 12	.....	.. ..	....
23	π Capricorni	9	21 39.82	− 0.32	+10.29	57 22 0.65	26.240	+1 25.5	38.9	20 21	.....	.. ..	....
24	Saturn I, N	4	26 32.31	− 0.34	**+10.29**	58 42 5.35	26.155	+1 30.2	**39.2**	20 26 42.26	+ 0.61	−19 51 34.0	....
25	Saturn II, S	5	26 33.53	− 0.34	**+10.29**	58 42 5.35	26.718	+1 30.2	**39.2**	20 26 43.48	− 0.61	−19 51 50.2	...
26	μ Aquarii	9	47 18.81	− 0.21	+10.27	48 10 3.40	29.162	+1 1.3	39.2	20 47	.....	.. ..	....
	August 24, Br.												
27	ι Aurigæ	9	50 32.69	+ 0.37	+10.01	5 50 0.15	28.849	+ 5.7	38.7	4 50	.....	.. ..	....
28	β Orionis	9	9 44.38	− 0.21	+10.02	47 10 7.02	25.419	+ 59.4	39.1	5 9	.....	.. ..	....
29	β Tauri	9	20 1.56	+ 0.29	+ 9.97	10 20 6.90	26.856	+ 10.1	39.5	5 20	.....	.. ..	....
30	δ Orionis	9	26 54.82	− 0.11	+10.03	39 12 6.68	29.059	+ 44.9	38.2	5 27	.....	.. ..	....
31	α Orionis	9	49 46.92	− 0.01	+10.03	31 28 5.78	26.326	+ 33.6	40.1	5 49	.....	.. ..	....
	August 25, Br.												
32	Sun I, N	9	12 6.01	+ 0.06	+ **9.92**	27 34 8.08	27.763	+ 27.9	**39.5**	10 12 15.99	+64.83	+11 16 39.6	....
33	Sun II, S	9	14 15.67	+ 0.06	+ **9.92**	28 6 7.65	27.123	+ 28.6	**39.5**	10 14 25.65	−64.83	+10 44 57.8	....
34	Mercury C, C	9	41 58.08	− 0.06	+ **9.89**	37 30 6.72	30.255	+ 40.9	**39.5**	11 42 7.91	+ 0.05	+ 1 19 17.1	....
35	Venus I, N	9	56 9.11	− 0.15	+ **9.88**	45 6 4.48	27.244	+ 53.4	**39.5**	11 56 18.84	+ 1.60	− 6 15 27.3	....
36	Moon I	9	44 29.52	− 0.13	+ **9.87**	43 56	......	....	....	12 44 39.26	+67.09	.. ..	....
37	α Canum Venat	9	51 19.59	+ 0.49	+ 9.79	0 0 5.92	29.030	+ 0.1	39.9	12 51	.....	.. ..	....
38	ε Virginis	8	57 12.07	+ 0.07	+ 9.88	27 22 9.02	27.468	+ 27.6	39.5	12 57	.....	.. ..	....
39	α Virginis	9	19 56.76	− 0.20	+ 9.89	49 30 8.82	26.739	+1 2.2	41.1	13 20	.....	.. ..	....
40	α Bootis	9	11 5.34	+ 0.18	+ 9.87	19 10 10.68	26.654	+ 18.5	39.5	14 11	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
22 20 13	29.740	75.5	74.1
20 47	29.734	74.8	73.3
23 7 14	29.803	78.4	80.8
7 28	......	....	81.5
7 39	29.808	80.0	81.8
24 10 8	29.806	85.7	86.5
11 56	29.790	89.0	88.5
13 20	29.772	91.0	89.2
13 50	......	....	88.9
14 11	29.770	90.2	89.0
14 41	29.772	89.8	88.3
20 13	29.800	80.0	78.6
20 27	......	....	76.9
20 47	29.814	78.8	78.1
4 51	29.778	74.7	74.1
5 10	29.774	75.0	75.2
5 20	......	...	75.9
5 27	29.778	75.8	76.1
5 50	29.782	77.0	78.0
25 10 12	29.796	90.0	91.5
11 42	29.782	92.8	92.8
11 56	29.774	93.0	93.0
12 57	29.748	94.2	93.1
13 20	29.748	94.3	93.1
14 11	29.738	94.1	92.8

Micrometer bisections are made at I, II, VI, VII, except as noted below.

3, 24.	Bisections at I, VII.
4, 25.	Bisections at II, VI.
5.	Bisections at VI, VII.
7.	Bisections at II, VI, VII.
11, 32	Bisections at I, II, III.
12, 33	Bisections at V., VI, VII.
15, 26.	Bisections at I, II, VI.
23.	Bisections at I, VI, VII.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
3	+ 0.9	+ 8.8	...	+ 9.7
4	+ 0.9	− 8.9	...	− 8.0
11	+ 4.1	+15 50.8	...	+15 54.9
12	+ 4.0	−15 50.8	...	−15 46.8
13	+ 17.0	− 23.5	...	− 6.5
24	+ 0.9	− 8.1	...	− 7.2
25	+ 0.9	+ 8.1	...	+ 9.0
32	+ 4.0	−15 50.8	...	−15 46.8
33	+ .4.1	+15 50.9	...	+15 55.0
34	+ 4.7	....	− 0.3	+ 4.4
35	+ 17.4	− 23.8	...	− 6.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	β Lyræ	9	46 22.52	+ 0.35	+ 9.74	5 36	......	....	....	18 46	....	.. ..	....
2	51 H. Cephei s. p.	9	55 18.33	−15.09	[+ 9.70]	306 4	......	....	....	6 55	.....	.. ..	....
3	ι Lyræ	9	3 43.11	+ 0.40	+ 9.73	2 54	......	....	....	19 3	.....	.. ..	....
4	λ Ursæ Minoris	7	18 31.47	−41.78	[+ 9.69]	309 52	......	....	....	19 19	.....	.. ..	....
5	α² Capricorni	9	12 34.45	− 0.25	+ 9.71	51 40 8.25	28.618	+1 8.6	40.7	20 12	.....	.. ..	....
6	π Capricorni	9	21 40.38	− 0.32	+ 9.72	57 22 8.98	25.996	+1 24.7	39.4	20 21	.....	.. ..	....
7	Saturn I, N	4	26 17.58	− 0.34	+ **9.70**	58 42 10.50	27.930	+1 29.2	**40.0**	20 26 26.94	+ 0.72	−19 52 27.9	....
8	Saturn II, S	5	26 19.02	− 0.34	+ **9.70**	58 42 10.50	28.555	+1 29.2	**40.0**	20 26 28.38	− 0.72	−19 52 45.9	....
9	α Delphini	9	35 1.54	+ 0.09	+ 9.69	23 16 7.22	28.102	+ 23.4	40.2	20 35	.....	.. ..	....
10	ζ Cygni	9	8 42.02	+ 0.29	+ 9.66	9 2 8.45	25.309	+ 8.7	39.9	21 8	.....	.. ..	....
	September 1, L.												
11	λ Sagittarii	9	22 4.02	− 0.37	− 1.21	64 18 4.78	26.926	+1 55.9	37.8	18 22	.....	.. ..	....
12	1 Aquilæ	9	30 0.17	− 0.16	− 1.26	47 8 4.88	29.095	+1 0.4	38.8	18 29	.....	.. ..	....
13	51 H. Cephei s. p.	5	55 32.90	−15.38	[− 1.58]	306 4	......	....	....	6 55	.....	.. ..	....
14	Moon I, S	9	57 37.72	− 0.29	− **1.26**	57 24 0.90	27.203	+1 27.5	**38.4**	18 57 36.17	+64.22	−18 33 56.3	....
15	Moon N	..	......	....	.....	56 54 2.78	27.627	+1 25.9	**38.4**	.. ..	.....	−18 4 11.4	....
16	d Sagittarii	9	12 2.58	− 0.29	− 1.30	57 58 3.20	25.660	+1 29.5	38.8	19 12	.....	.. ..	....
17	λ Ursæ Minoris	2	18 32.95	+42.70	[− 0.31]	309 52	......	....	....	19 19	.....	.. ..	....
18	δ Aquilæ	9	20 40.87	− 0.03	− 1.27	35 56 6.85	25.289	+ 40.7	38.4	19 20	.....	.. ..	....
19	θ Aquilæ	9	6 22.64	− 0.07	− 1.25	39 56 1.35	29.110	+ 47.1	39.1	20 6	.....	.. ..	....
20	α² Capricorni	9	12 45.34	− 0.21	− 1.27	51 40 1.60	28.694	+1 11.1	38.7	20 12	.....	.. ..	....
21	Saturn I, N	4	24 49.24	− 0.30	− **1.28**	58 48 0.10	28.222	+1 32.7	**38.4**	20 24 47.66	+ 0.71	−19 58 31.1	....
22	Saturn II, S	5	24 50.66	− 0.30	− **1.28**	58 48 0.10	28.772	+1 32.7	**38.4**	20 24 49.08	− 0.71	−19 58 46.6	....
23	α Delphini	9	35 12.46	+ 0.13	− 1.32	23 16 2.00	28.128	+ 24.2	37.5	20 35	.....	.. ..	....
24	μ Aquarii	9	47 30.30	− 0.17	− 1.29	48 10 2.98	29.080	+1 2.9	38.4	20 47	.....	.. ..	....
	September 2, R.												
25	β Lyræ	9	46 33.16	+ 0.40	− 1.10	5 36	......	....	....	18 46	.....	.. ..	....
26	51 H. Cephei s. p.	9	55 32.39	−15.45	[− 0.52]	306 4	......	....	....	6 55	.....	.. ..	....
27	ζ Aquilæ	9	1 0.93	+ 0.11	− 1.08	25 8	......	....	....	19 0	.....	.. ..	....
28	λ Ursæ Minoris	9	18 32.17	+42.94	[− 1.03]	309 52	......	....	....	19 19	.....	.. ..	....
29	κ Aquilæ	9	31 44.86	− 0.15	− 1.03	46 4 2.62	28.822	+ 58.0	38.3	19 31	.....	.. ..	....
30	γ Aquilæ	9	41 42.98	+ 0.07	− 1.07	28 28 3.10	27.121	+ 30.4	38.8	19 41	.....	.. ..	....
31	Moon I, S	9	48 16.32	− 0.27	− **1.07**	55 51 58.82	29.951	+1 22.5	**38.6**	19 48 14.98	+63.56	−17 3 8.8	....
32	α² Capricorni	9	12 45.13	− 0.21	− 1.07	51 40 6.02	28.546	+1 10.9	38.6	20 12	.....	.. ..	....
33	π Capricorni	9	21 51.12	− 0.28	− 1.10	57 22 1.70	26.123	+1 27.4	38.1	20 21	.....	.. ..	....
34	Saturn I, N	4	24 35.89	− 0.30	− **1.07**	58 48 7.42	29.648	+1 32.4	**38.6**	20 24 34.52	+ 0.65	−19 59 18.4	....
35	Saturn II, S	5	24 37.19	− 0.30	− **1.07**	58 48 7.42	30.182	+1 32.5	**38.6**	20 24 35.82	− 0.65	−19 59 33.9	....
36	ψ Capricorni	9	40 26.31	− 0.38	− 1.01	64 26 7.98	27.832	+1 56.8	39.2	20 40	.....	.. ..	....
37	μ Aquarii	9	47 30.09	− 0.17	− 1.08	48 10 6.45	28.968	+1 2.7	38.4	20 47	.....	.. ..	....
	September 2, L.												
38	α Canis Majoris	9	40 55.28	− 0.30	− 1.34	55 24 6.28	29.278	+1 21.4	36.9	6 40	.....	.. ..	....
39	α² Geminorum	9	28 27.37	+ 0.38	− 1.38	6 44 2.72	30.315	+ 6.7	38.0	7 28	.....	.. ..	....
40	α Canis Minoris	9	34 16.21	− 0.02	− 1.30	33 22 5.70	28.235	+ 36.9	35.9	7 34	.....	.. ..	....
41	β Geminorum	9	39 25.42	+ 0.31	− 1.30	10 36 2.05	26.975	+ 10.5	39.3	7 39	.....	.. ..	....
	September 3, L.												
42	Sun I, S	9	45 6.73	+ 0.05	− **1.29**	31 18 6.60	26.323	+ 33.6	**37.6**	10 45 5.49	+64.37	+ 7 33 14.5	....
43	Sun II, N	9	47 15.47	+ 0.05	− **1.29**	30 46 5.92	26.930	+ 32.9	**37.6**	10 47 14.23	−64.37	+ 8 4 58.9	....
44	Venus I, N	8	50 30.17	− 0.12	− **1.28**	46 10 5.12	27.445	+ 57.2	**37.6**	11 50 28.77	+ 1.83	− 7 19 39.3	....
45	Mercury C, C	9	21 33.11	− 0.09	− **1.27**	43 14 5.18	29.805	+ 51.7	**37.6**	12 21 31.75	+ 0.07	− 4 24 41.1	....
46	α Canum Venat.	9	51 30.60	+ 0.51	− 1.34	0 0 4.18	29.056	+ 0.1	37.3	12 51	.....	.. ..	....
47	ε Virginis	9	57 23.12	+ 0.10	− 1.28	27 22 5.40	27.355	+ 28.5	35.6	12 57	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
25 20 13	29.744	83.1	82.0
20 35	......	....	81.6
21 9	29.742	82.4	81.4
1 18 22	29.860	70.4	68.3
19 21	29.870	68.3	67.1
20 6	29.870	67.8	66.2
20 48	29.868	67.1	65.8
2 19 32	29.946	72.0	70.9
19 48	......	....	70.3
20 13	29.952	70.8	69.2
20 40	......	....	69.3
20 48	29.955	70.3	69.3
6 41	29.980	66.7	68.3
7 28	29.992	69.1	71.2
7 39	......	....	71.8
3 10 47	30.002	78.7	78.4
11 51	29.996	80.1	80.0
12 22	......	....	80.2
12 57	......	....	80.7

Micrometer bisections are made at I, II, VI, VII, except as noted below.

7, 22, 34.	Bisections at I, VII.
8, 21, 35.	Bisections at II, VI.
9.	Bisections at II, VI, VII.
14, 42.	Bisections at I, II, III.
15, 43.	Bisections at V, VI, VII.
31.	Bisections at II, III, IV, V, VI.
33.	Bisections at I, II, VI.
47.	Z. D. thread D₁ used.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
7	+ 0.9	− 9.0	...	− 8.1
8	+ 0.9	+ 9.0	...	+ 9.9
14	+45 30.6	+14 44.9	...	+60 15.5
15	+45 15.1	−14 44.9	+ 0.4	+30 30.6
21	+ 0.9	− 7.8	...	− 6.9
22	+ 0.9	+ 7.7	...	+ 8.6
31	+44 38.4	+14 45.3	...	+59 23.7
34	+ 0.9	− 7.7	...	− 6.8
35	+ 0.9	+ 7.8	...	+ 8.7
42	+ 4.5	+15 52.2	...	+15 56.7
43	+ 4.4	−15 52.1	...	−15 47.7
44	+ 20.2	− 27.2	...	− 7.0
45	+ 5.9	....	− 0.5	+ 5.4

NO.	DATE, OBSERVER, AND OBJECT.	THDS.	MEAN THREAD.	INST. CORR.	CLOCK CORR.	CIRCLE READING.	MICROM. READING.	REFRACTION.	EQ. PT. FROM STARS.	APPARENT R. A.	MISC. CORR.	APPARENT DECL.	MISC. CORR.
			m s	s	s	° ′ ″	r	′ ″	″	h m s	s	° ′ ″	″
1	α Virginis	9	20 7.66	− 0.15	− 1.16	49 30 5.38	26.712	+1 4.1	39.3	13 20	.....	.. ..	....
2	ζ Bootis	9	50 6.07	− 0.19	− 1.24	19 58 7.80	27.125	+ 20.0	37.9	13 50	.....	.. ..	....
3	α Bootis	9	11 16.31	− 0.21	− 1.26	19 10 4.00	26.821	+ 19.1	37.7	14 11	.....	.. ..	....
4	θ Aquilæ	9	6 22.74	− 0.09	− 1.35	39 56 9.20	28.815	+ 46.8	38.5	20 6	.....	.. ..	....
5	α² Capricorni	9	12 45.41	− 0.23	− 1.33	51 40 9.90	28.392	+1 10.7	37.9	20 12	.....	.. ..	....
6	Saturn I, N	9	24 23.31	0.33	− **1.33**	58 50 9.20	26.950	+1 32.3	**37.8**	20 24 21.65	+ 0.63	−20 0 4.1	....
7	Saturn II, S	9	24 24.58	− 0.33	− **1.33**	58 50 9.20	27.525	+1 32.3	**37.8**	20 24 22.92	− 0.64	−20 0 20.4	....
8	ε Delphini	9	28 39.29	+ 0.04	− 1.31	27 52 8.40	27.254	+ 29.6	36.6	20 28	.....	.. ..	....
9	Moon I, S	9	38 0.90	− 0.28	− **1.33**	53 38 7.55	28.387	+1 16.0	**37.8**	20 37 59.29	+62.91	−14 48 27.2	....
10	μ Aquarii	9	47 30.35	− 0.21	− 1.31	48 10 9.35	28.854	+1 2.6	38.0	20 47	.....	.. ..	....
	September 3, R.												
11	α Canis Majoris	9	40 55.12	− 0.30	− 1.16	55 24 6.75	29.285	+1 21.4	37.7	6 40	.....	.. ..	....
12	α² Geminorum	9	28 27.08	+ 0.40	− 1.08	6 44 4.42	30.269	+ 6.7	38.4	7 28	.....	.. ..	....
13	α Canis Minoris	9	34 16.05	− 0.01	− 1.13	33 22 3.40	28.349	+ 36.8	36.9	7 34	.....	.. ..	....
14	β Geminorum	9	39 25.28	+ 0.33	− 1.16	10 36 4.15	26.901	+ 10.5	39.2	7 39	.....	.. ..	....
	September 4, R.												
15	Sun I, N	9	48 43.87	+ 0.01	− **1.12**	31 8 10.58	26.697	+ 33.2	**38.0**	10 48 42.76	+64.23	+ 7 43 0.7	....
16	Sun II, S	9	50 52.33	+ 0.01	− **1.12**	31 40 5.65	26.358	+ 33.9	**38.0**	10 50 51.22	−64.23	+ 7 11 14.9	....
17	Venus I, N	9	49 10.79	− 0.15	− **1.12**	46 10 6.40	29.490	+ 57.0	**38.0**	11 49 9.52	+ 1.85	− 7 20 38.3	....
18	Mercury C, C	9	25 21.21	− 0.11	− **1.12**	43 48 5.10	30.341	+ 52.6	**38.0**	12 25 19.98	+ 0.07	− 4 58 56.9	....
19	α Virginis	8	20 7.59	− 0.16	− 1.08	49 30	......	....	....	13 20	.....	.. ..	....
20	α Bootis	9	11 16.13	+ 0.21	− 1.09	19 10 4.02	26.826	+ 19.0	37.6	14 11	.....	.. ..	....
21	ρ Bootis	9	27 40.59	+ 0.37	− 1.13	8 2 4.20	29.998	+ 7.8	37.4	14 27	.....	.. ..	....
22	ε Bootis	9	40 46.86	+ 0.32	− 1.13	11 22 6.50	27.366	+ 11.1	37.8	14 40	.....	.. ..	....
23	α² Libræ	9	45 33.89	− 0.20	− 1.13	54 28 10.88	28.110	+1 16.5	38.7	14 45	.....	.. ..	....
24	β Lyræ	9	46 33.17	+ 0.37	− 1.12	5 36	.....	....	....	18 46	.. ..	.. ..	....
25	51 H. Cephei S. P.	9	55 32.89	−15.48	[− 0.07]	306 4	......	....	....	6 55	.....	.. ..	....
26	ζ Aquilæ	9	1 0.93	+ 0.08	− 1.08	25 8	......	....	....	19 0	.....	.. ..	....
27	λ Ursæ Minoris	9	18 30.17	−42.92	[− 1.45]	309 52	......	....	....	19 19	.....	.. ..	....
28	κ Aquilæ	9	31 44.93	− 0.17	− 1.10	46 4	......	....	....	19 31	.....	.. ..	....
29	α² Capricorni	9	12 45.19	− 0.24	− 1.11	51 40 4.30	28.631	+1 10.4	38.8	20 12	.....	.. ..	....
30	π Capricorni	9	21 51.12	0.31	− 1.09	57 22 4.28	26.068	+1 26.9	38.4	20 21	.....	.. ..	....
31	Saturn I, N	4	24 10.59	− 0.33	− **1.10**	58 50 3.25	28.798	+1 32.0	**38.7**	20 24 9.16	+ 0.64	−20 0 49.5	....
32	Saturn II, S	5	24 11.88	− 0.33	− **1.10**	58 50 3.25	29.358	+1 32.0	**38.7**	20 24 10.45	− 0.65	−20 1 5.6	....
33	ψ Capricorni	9	40 26.37	− 0.41	− 1.06	64 26 6.38	27.940	+1 56.2	39.9	20 40	.....	.. ..	....
34	μ Aquarii	9	47 30.17	− 0.20	− 1.15	48 10 4.25	29.066	+1 2.3	38.6	20 47	.....	.. ..	....
35	ζ Capricorni	9	21 12.93	− 0.37	− 1.07	61 40 6.05	25.591	+1 43.2	38.7	21 21	.....	.. ..	....
36	Moon I, S	9	26 55.71	− 0.23	− **1.10**	50 46 2.90	27.585	+1 8.4	**38.7**	21 26 54.38	+62.37	−11 55 51.2	....
37	ξ Aquarii	9	32 40.13	− 0.19	− 1.09	47 8 6.68	25.878	+1 0.2	39.0	21 32	.....	.. ..	....
38	μ Capricorni	9	48 5.46	− 0.26	− 1.13	52 50 3.70	27.918	+1 13.6	37.8	21 48	.....	.. ..	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	in.	°	°
3 13 20	29.980	81.7	80.9
13 50	......	...	81.0
14 11	29.970	82.1	81.0
20 6	29.990	73.4	71.3
20 48	29.990	72.3	70.5
6 41	29.988	67.9	69.0
7 28	....	....	71.7
7 39	29.994	71.3	72.2
4 10 51	29.972	80.1	80.6
11 49	29.965	81.7	81.5
12 25	29.954	82.3	81.2
14 11	29.937	83.2	81.8
14 28	....	....	81.9
14 46	29.933	83.0	81.4
20 13	29.916	73.1	71.7
20 24	.....	....	71.5
20 48	29.904	72.5	71.1
21 21	......	....	70.3
21 33	......	....	70.1
21 48	29.896	71.5	70.0

Micrometer bisections are made at I, II, VI, VII, except as noted below.

6, 32.	Bisections at II, VI.
7, 31.	Bisections at I, VII.
9, 36.	Bisections at II, III, IV, V, VI.
15.	Bisections at I, II, III.
16.	Bisections at V, VI, VII.
21, 23.	Bisections at II, VI, VII.
30.	Bisections at I, II.

No.	Parallax.	Semidiam.	Corr. for Def. Ill.	Sum.
	′ ″	′ ″	″	′ ″
6	+ 0.9	− 8.2	...	− 7.3
7	+ 0.9	+ 8.1	...	+ 9.0
9	+43 26.9	+14 46.0	...	+58 12.9
15	+ 4.5	−15 52.8	...	−15 48.3
16	+ 4.6	+15 52.9	...	+15 57.5
17	+ 20.4	− 27.5	...	− 7.1
18	+ 6.1	....	− 0.5	+ 5.6
31	+ 0.9	− 8.0	...	− 7.1
32	+ 0.9	+ 8.1	...	+ 9.0
36	+41 54.2	+14 48.5	...	+56 42.7

RESULTS

OF

OBSERVATIONS.

TRANSIT CIRCLE

POSITIONS AND SEMIDIAMETERS OF THE

SUN, MOON, AND PLANETS,

WITH CORRECTIONS TO THEIR EPHEMERIDES.

SUN.

SIX-INCH TRANSIT CIRCLE.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph,
1900			h m s	s	s	s		° ′ ″	″	′ ″	″
Jan. 2.0	Br.	.	18 51 45.86	-0.11	71.04	+0.10	.	−22 55 5.9	−0.8	16 18.8	+1.7
4.0	La.	.	19 0 34.64	-0.06	70.86	+0.02	.	−22 43 15.8	0.0	16 16.8	−0.3
5.0	B.	.	19 4 58.37	−0.08	70.92	+0.14	.	−22 36 38.6	+1.8	16 17.0	−0.1
6.0	U.	.	19 9 21.58	−0.14	70.78	+0.06	.	−22 29 37.4	+1.0	16 17.8	+0.7
8.0	La.	.	19 18 6.62	−0.12	70.64	+0.06	.	−22 14 14.2	+0.3	16 16.8	−0.2
15.0	La.	.	19 48 25.78	−0.16	70.11	+0.11	.	−21 6 51.2	+0.7	16 16.7	0.0
16.0	Br.	.	19 52 43.04	−0.19	70.00	+0.09	.	−20 55 35.4	−0.2	16 16.1	−0.5

NINE-INCH TRANSIT CIRCLE.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph,
23.0	Br.	.	20 22 24.39	+0.20	69.32	+0.12	.	−19 25 43.3	+2.0	16 18.3	+2.3
24.0	B.	.	20 26 35.65	+0.04	69.28	+0.19	.	−19 11 25.0	+1.2	16 15.8	0.0
26.0	La.	.	20 34 56.10	+0.01	69.02	+0.15	.	−18 41 43.4	+1.3	16 15.0	−0.6
27.0	Br.	.	20 39 5.22	+0.06	68.81	+0.06	.	−18 26 23.8	−0.7	16 14.6	−0.9
31.0	B.	.	20 55 33.43	+0.09	68.42	+0.13	.	−17 21 39.6	+0.8	16 15.5	+0.6
Feb. 2.0	Br.	:	21 3 42.61	+0.14	68.20	+0.14	.	−16 47 25.6	+1.5	16 14.6	0.0
3.0	B.	.	21 7 45.84	+0.05	68.08	+0.13	.	−16 29 52.6	+1.3	16 15.2	+0.7
5.0	La.	.	21 15 49.98	+0.06	67.86	+0.14	.	−15 53 56.5	+0.6	16 13.4	−0.8
14.0	B.	.	21 51 28.29	+0.09	66.84	+0.13	.	−12 59 34.4	+0.1	16 13.0	+0.5
15.0	La.	.	21 55 21.74	−0.18	66.66	+0.05	.	−12 39 2.0	+1.5	16 12.8	+0.5
19.0	Ei.	.	22 10 49.61	−0.08	66.29	+0.08	.	−11 15 1.8	+0.2	16 11.8	+0.3
26.0	Ei.	.	22 37 28.43	−0.07	65.60	+0.02	.	− 8 41 24.3	+1.6	16 11.4	+1.5
27.0	Br.	.	22 41 14.42	−0.16	65.62	+0.12	.	− 8 18	...	.. ....	...
Mar. 12.0	Ei.	.	23 29 29.97	−0.21	64.83	+0.13	.	− 3 17 37.5	+1.4	16 7.1	+0.7
21.0	Ei.	.	0 2 21.98	−0.15	64.49	+0.06	.	+ 0 15 24.7	−0.2	16 5.0	+1.0
22.0	Br.	.	0 6 0.20	−0.25	64.48	+0.07	.	+ 0 39 6.8	+1.5	16 3.2	−0.5
24.0	Br.	.	0 13 16.66	−0.23	64.42	+0.03	.	+ 1 26 21.5	−0.5	16 2.5	−0.7
27.0	Br.	.	0 24 11.13	−0.19	64.44	+0.06	.	+ 2 37 1.2	+0.4	16 2.8	+0.4
28.0	Ei.	.	0 27 49.40	−0.10	64.42	+0.04	.	+ 3 0 28.3	+0.3	16 2.3	+0.2
Apr. 2.0	Ei.	.	0 46 1.19	−0.13	64.46	+0.02	.	+ 4 56 44.6	+0.5	16 1.8	+1.1
3.0	La.	.	0 49 39.82	−0.16	64.53	+0.07	.	+ 5 19 43.4	−1.4	15 59.8	−0.6
5.0	Br.	.	0 56 57.56	−0.15	64.59	+0.07	.	+ 6 5 28.4	−0.1	15 59.9	0.0
6.0	Ei.	.	1 0 36.65	−0.15	64.60	+0.05	.	+ 6 28 10.6	−0.3	16 0.3	+0.7
10.0	La.	I	1 15 14.86	−0.40	.....	....	.	+ 7 57 48.7	−1.1	15 58.4	−0.1
14.0	La.	.	1 29 57.55	−0.30	64.95	+0.08	.	+ 9 25 21.1	+1.0	15 58.6	+1.2
24.0	La.	.	2 7 10.24	−0.16	65.56	+0.10	.	+12 52 28.1	+0.7	15 54.4	−0.4
25.0	Ei.	.	2 10 55.90	−0.24	65.65	+0.12	.	+13 12 8.6	+2.2	15 55.7	+1.1
26.0	Br.	.	2 14 42.17	−0.22	65.66	+0.06	S.	+13 31 33.5	+1.1	.. ....	...
27.0	Ei.	.	2 18 29.02	−0.13	65.72	+0.04	.	+13 50 44.9	−0.2	15 55.2	+1.1
28.0	La.	.	2 22 16.30	−0.13	65.82	+0.07	.	+14 9 44.3	+0.2	15 54.2	+0.4

SUN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1900			h m s	s	s	s		° ′ ″	″	′ ″	″
May 4.0	La.	.	2 45 10.97	−0.12	66.30	+0.07	.	+15 58 34.4	+1.1	15 52.0	−0.4
5.0	Hd.	.	2 49 1.83	−0.24	66.36	+0.05	.	+16 15 45.8	−1.8	15 53.6	+1.4
8.0	Hd.	.	3 0 38.18	−0.12	66.60	+0.05	.	+17 5 54.0	+1.9	15 51.8	+0.3
10.0	Hd.	.	3 8 25.09	−0.14	66.80	+0.09	.	+17 37 51.6	+1.7	15 51.0	−0.1
14.0	Br.	.	3 24 5.70	−0.14	67.13	+0.09	.	+18 38 12.4	+1.1	15 50.4	+0.1
15.0	Hd.	.	3 28 2.29	−0.12	67.16	+0.04	.	+18 52 30.9	+0.6	15 49.5	−0.6
16.0	Br.	.	3 31 59.47	−0.10	67.28	+0.08	.	+19 6 28.2	−2.1	15 52.6	+2.7
21.0	Br.	.	3 51 53.82	−0.13	67.60	+0.01	.	+20 11 34.5	−0.3	15 49.8	+0.9
22.0	Hd.	.	3 55 54.47	−0.04	67.65	−0.02	.	+20 23 34.8	+0.1	15 48.2	−0.6
26.0	Hd.	.	4 12 1.98	−0.20	68.06	+0.11	.	+21 8 6.2	+2.7	15 49.0	+0.9
June 1.0	Ei.	.	4 36 28.25	−0.01	68.32	0.00	.	+22 3 47.7	+0.8	15 46.7	−0.5
5.0	B.	.	4 52 53.67	+0.05	68.62	+0.08	.	+22 33 19.0	+1.5	15 50.3	+3.6
6.0	Ei.	.	4 57 0.75	−0.04	68.64	+0.05	.	+22 39 42.0	+0.7	15 47.3	+0.7
7.0	Hd.	.	5 1 8.19	−0.06	68.65	+0.02	.	+22 45 41.5	+0.1	15 45.0	−1.5
8.0	Ei.	II	5 5 16.01	+0.03	.....	....	.	+22 51 19.4	+2.0	15 46.8	+0.4
9.0	B.	.	5 9 24.00	+0.03	68.70	0.00	.	+22 56 30.2	+0.8	15 45.7	−0.5
11.0	Ei.	.	5 17 40.67	+0.03	68.77	+0.01	.	+23 5 41.5	+0.7	15 46.6	+0.6
20.0	Ei.	.	5 55 3.52	−0.10	68.94	+0.06	.	+23 26 48.2	+0.6	15 46.2	+0.8
21.0	Hd.	.	5 59 13.19	−0.05	68.83	−0.04	.	+23 27 5.1	+0.5	15 44.8	−0.5
26.0	B.	.	6 20 0.79	+0.02	68.88	+0.03	.	+23 22 17.6	+0.5	15 46.4	+1.3
27.0	Br.	.	6 24 9.99	+0.03	68.84	+0.01	.	+23 20 6.1	+0.6	15 44.5	−0.5
29.0	Br.	.	6 32 27.79	−0.07	68.80	+0.02	.	+23 14 29.0	+0.5	15 46.3	+1.3
July 2.0	Ei.	.	6 44 52.83	−0.11	68.70	+0.03	.	+23 3 0.5	+0.6	15 45.7	+0.7
5.0	B.	.	6 57 15.26	−0.14	68.60	+0.07	.	+22 47 54.9	+0.4	15 45.3	+0.3
6.0	Ei.	.	7 1 22.19	−0.02	68.52	+0.03	.	+22 42 7.1	+2.0	15 45.5	+0.5
7.0	Br.	.	7 5 28.64	−0.01	68.54	+0.10	.	+22 35 52.6	+0.5	15 47.6	+2.6
10.0	Br.	.	7 17 45.50	−0.03	68.36	+0.09	.	+22 14 53.0	+0.1	15 47.1	+2.0
11.0	Ei.	.	7 21 50.29	−0.02	68.24	+0.03	.	+22 7 8.4	+1.2	15 46.0	+0.9
12.0	B.	.	7 25 54.71	+0.07	68.16	+0.01	.	+21 58 59.0	+0.5	15 45.0	−0.2
13.0	Ei.	II	7 29 58.37	−0.14	.....	....	.	+21 50 27.6	+0.4	15 45.6	+0.4
14.0	Br.	.	7 34 1.96	+0.04	68.09	+0.07	.	+21 41 34.8	+1.3	15 45.1	−0.1
16.0	Ei.	.	7 42 7.25	−0.04	67.90	+0.02	.	+21 22 40.6	+1.1	15 45.3	−0.1
17.0	Br.	.	7 46 9.22	−0.02	67.85	+0.04	.	+21 12 40.4	+0.8	15 46.0	+0.6
18.0	Ei.	I	7 50 10.61	−0.07	.....	....	.	+21 2 18.6	+0.5	15 45.8	+0.3
19.0	B.	.	7 54 11.65	+0.04	67.72	+0.07	N.	+20 51 38.4	+3.1	.. ....	...
20.0	Br.	.	7 58 11.99	−0.02	67.68	+0.11	.	+20 40 31.8	+0.8	15 47.0	+1.4
21.0	B.	.	8 2 11.87	−0.02	67.48	−0.01	.	+20 29 7.3	+1.4	15 46.2	+0.5
24.0	Br.	.	8 14 8.10	−0.07	67.28	+0.03	.	+19 52 48.1	+0.8	15 46.6	+0.6
28.0	Br.	.	8 29 54.94	−0.10	67.00	+0.09	.	+18 59 46.8	+1.4	15 47.9	+1.5
31.0	Br.	.	8 41 38.83	0.00	66.64	0.00	.	+18 16 41.2	0.0	15 47.2	+0.5
Aug. 1.0	B.	.	8 45 32.18	−0.02	66.55	0.00	.	+18 1 45.0	+1.3	15 46.3	−0.5
2.0	Br.	.	8 49 24.80	−0.14	66.60	+0.13	.	+17 46 28.6	+0.1	15 49.2	+2.2
3.0	Ei.	.	8 53 16.97	−0.08	66.38	0.00	.	+17 30 57.4	+1.3	15 47.6	+0.5
4.0	B.	.	8 57 8.41	−0.12	66.38	+0.08	.	+17 15 7.3	+0.6	15 47.9	+0.7
6.0	Ei.	.	9 4 49.50	−0.16	66.16	+0.04	.	+16 42 38.0	+0.1	15 48.2	+0.7
7.0	La.	.	9 8 39.23	−0.08	66.06	+0.03	.	+16 26 0.5	+1.2	15 47.8	+0.2
8.0	Ei.	.	9 12 28.30	−0.06	65.96	+0.01	.	+16 9 5.8	+1.1	15 47.6	−0.2
9.0	Br.	.	9 16 16.68	−0.14	65.92	+0.06	.	+15 51 55.6	+0.9	15 47.6	−0.3
10.0	Ei.	.	9 20	....	.....	....	.	+15 34 30.2	+0.8	15 48.6	+0.5
11.0	La.	.	9 23 51.83	−0.15	65.76	+0.06	.	+15 16 49.1	0.0	15 49.0	+0.7
14.0	La.	.	9 35 10.38	−0.14	65.50	+0.04	.	+14 22 22.3	+1.2	15 49.0	+0.2
25.0	Hd.	.	10 16 0.18	−0.15	64.63	+0.07	.	+10 45 57.6	−1.5	15 48.4	−2.5
27.0	Ei.	.	10 23 19.84	−0.19	64.58	0.00	.	+10 4 14.0	+1.1	15 51.3	0.0
28.0	Hd.	.	10 26 59.08	−0.21	64.52	0.00	.	+ 9 43 4.6	−0.6	15 52.0	+0.5
30.0	Br.	.	10 34 16.58	−0.15	64.50	+0.08	.	+ 9 0 24.3	+1.7	15 53.1	+1.1
31.0	Ei.	.	10 37 54.68	−0.23	64.37	0.00	.	+ 8 38 49.5	+1.3	15 52.6	+0.4
Sept. 1.0	B.	I	10 41 32.54	−0.22	.....	....	.	+ 8 17	...	.. ....	...
4.0	Hd.	II	10 52 24.29	−0.21	.....	....	.	+ 7 11	...	.. ....	...
5.0	B.	.	10 56 1.21	0.00	64.24	+0.07	.	+ 6 49 0.2	+0.3	15 54.0	+0.6
6.0	Ei.	.	10 59 37.57	−0.09	64.18	+0.04	.	+ 6 26 40.8	−0.3	15 54.0	+0.4

SUN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1900			h m s	s	s	s		° ′ ″	″	′ ″	″
Sept. 19.0	Hh.	.	11 46 19.79	-0.09	64.02	+0.05	.	+1 28 49.8	-1.7	15 56.2	-0.7
20.0	Hd.	.	11 49 55.23	-0.04	64.00	+0.02	.	+1 5 32.2	-0.2	15 58.3	+1.1
24.0	Hh.	.	12 4 17.68	-0.14	63.99	-0.05	.	-0 27 59.0	-0.9	16 0.2	+2.0
25.0	B.	.	12 7 53.78	0.00	64.08	+0.02	.	-0 51 22.9	-0.2	15 59.2	+0.7
26.0	Hh.	.	12 11 29.91	+0.02	64.06	-0.03	.	-1 14 47.4	-0.3	16 0.2	+1.4
27.0	Hd.	.	12 15 6.13	-0.06	64.15	+0.03	.	-1 38 10.8	+0.3	15 59.9	+0.9
Oct. 6.0	Br.	.	12 47 44.02	-0.01	64.58	+0.06	.	-5 7 31.2	+0.7	16 2.4	+0.9
10.0	Hh.	.	13 2 22.97	-0.18	64.78	0.00	.	-6 39 8.9	-0.1	16 1.8	-0.8
11.0	B.	.	13 6 4.05	-0.01	64.90	+0.05	.	-7 1 50.0	+0.7	16 3.7	+0.8
15.0	Hh.	.	13 20 52.99	+0.03	65.20	+0.04	.	-8 31 38.6	0.0	16 6.0	+2.0
16.0	Br.	.	13 24 36.62	+0.02	65.27	+0.03	.	-8 53 47.7	+1.1	16 4.6	+0.3
17.0	Hh.	.	13 28 20.75	-0.09	65.40	+0.08	.	-9 15 50.2	+1.3	16 3.8	-0.8
18.0	B.	.	13 32 5.59	-0.08	65.56	+0.15	.	-9 37 44.9	+1.2	16 6.0	+1.2
19.0	Hh.	.	13 35 51.02	-0.11	65.50	0.00	.	-9 59 31.8	+0.7	16 7.0	+1.9
20.0	Br.	.	13 39 37.29	+0.05	65.60	+0.01	.	-10 21 8.5	+1.7	16 7.2	+1.8
22.0	Hh.	.	13 47 11.27	-0.16	65.76	-0.02	.	-11 3 57.7	0.0	16 6.7	+0.8
24.0	B.	.	13 54 48.34	-0.01	66.02	+0.04	.	-11 46 3.8	+1.7	16 7.2	+0.8
25.0	B.	.	13 58 37.71	-0.15	66.20	+0.12	.	-12 6 51.1	+2.3	16 7.3	+0.6
27.0	Br.	.	14 6 18.95	-0.07	66.44	+0.14	.	-12 47 54.4	+0.8	16 8.3	+1.1
30.0	Br.	.	14 17 56.36	+0.05	66.60	-0.03	.	-13 47 55.1	+2.0	16 8.8	+0.8
Nov. 5.0	S.	.	14 41 31.76	-0.01	67.38	+0.06	.	-15 41 52.0	+0.8	16 9.3	-0.2
6.0	Br.	.	14 45 30.56	+0.06	67.56	+0.12	.	-15 59 58.9	+0.9	16 11.2	+1.5
7.0	S.	.	14 49 30.07	+0.01	67.50	-0.06	.	-16 17 49.6	+1.2	16 9.5	-0.5
9.0	S.	.	14 57 31.77	+0.05	67.83	+0.03	.	-16 52 43.4	0.0	16 11.0	+0.6
10.0	Br.	.	15 1 33.94	+0.10	68.03	+0.11	.	-17 9 43.2	+0.7	16 12.4	+1.8
12.0	S.	.	15 9 40.70	+0.01	68.21	+0.05	.	-17 42 51.3	+0.9	16 11.0	-0.1
22.0	Br.	.	15 51 6.68	+0.08	69.40	+0.10	.	-20 9 7.5	+0.6	16 13.8	+0.7
30.0	Hh.	.	16 25 12.62	+0.11	70.08	-0.04	.	-21 39 48.7	+0.3	16 14.2	-0.3
Dec. 1.0	S.	.	16 29 31.47	+0.12	70.23	+0.02	.	-21 49 19.2	+1.2	16 13.8	-0.9
5.0	Hh.	.	16 46 52.80	+0.02	70.60	+0.08	.	-22 23 13.6	-1.0	16 15.6	+0.3
10.0	Hh.	.	17 8 46.79	+0.15	70.86	+0.01	.	-22 55 42.4	+0.9	16 17.6	+1.8
13.0	Br.	.	17 22 0.25	-0.06	71.11	+0.11	.	-23 9 46.7	+2.2	16 17.2	+1.0
14.0	Hh.	.	17 26 25.64	+0.06	71.03	-0.01	.	-23 13 36.6	-1.0	16 15.7	-0.5
15.0	B.	.	17 30 51.17	+0.02	71.10	+0.02	.	-23 16 51.9	+2.6	16 15.5	-0.8
17.0	Hh.	.	17 39 43.11	+0.03	71.16	+0.02	.	-23 22 8.3	0.0	16 19.1	+2.6
18.0	B.	.	17 44 9.47	+0.10	71.16	0.00	.	-23 24 2.1	+1.0	16 17.5	+0.9
29.0	B.	.	18 33 0.96	-0.06	71.34	+0.23	.	-23 14 1.4	-0.3	16 19.2	+2.1
1901											
Jan. 3.0	Br.	.	18 55 6.85	+0.11	71.06	+0.15	.	-22 50	...	.. ....	...
4.0	Hh.	.	18 59 30.84	+0.02	70.87	+0.01	.	-22 44 44.5	+0.5	16 19.4	+2.3
8.0	B.	.	19 17 2.92	+0.09	70.64	+0.04	.	-22 16 10.4	+0.3	16 17.0	0.0
12.0	B.	I	19 34 26.84	+0.12	.....	....	N.	-21 40 36.8	-0.6	.. ....	...
15.0	B.	.	19 47 23.44	-0.02	70.13	+0.10	.	-21 9 28.8	+0.4	16 16.5	-0.2
16.0	Hh.	.	19 51 41.08	0.00	69.92	-0.02	.	-20 58 15.5	+2.1	16 18.1	+1.5
19.0	B.	.	20 4 29.78	+0.01	69.80	+0.16	.	-20 22 20.7	-0.8	16 18.4	+2.0
Feb. 1.0	Hh.	.	20 58 39.47	-0.05	68.22	+0.01	.	-17 8 46.4	+1.1	16 15.2	+0.4
2.0	Br.	.	21 2 43.85	+0.14	68.14	+0.05	.	-16 51 34.8	+2.3	16 16.0	+1.3
4.0	Hh.	.	21 10 49.65	+0.03	67.87	+0.01	.	-16 16 23.3	+0.1	16 15.9	+1.5
5.0	Br.	.	21 14 51.42	+0.07	67.86	+0.12	.	-15 58 21.6	-0.3	16 15.2	+1.0
6.0	Hh.	.	21 18 52.36	+0.10	67.69	+0.06	.	-15 40 3.1	-0.5	16 15.9	+1.9
7.0	Hd.	.	21 22 52.21	-0.15	67.67	+0.16	.	-15 21 27.6	+0.1	16 14.1	+0.2
12.0	Br.	.	21 42 41.29	+0.04	67.08	+0.12	.	-13 44 47.8	-1.4	16 15.2	+2.2
14.0	Hd.	.	21 50 31.52	+0.01	66.82	+0.08	.	-13 4 25.3	+2.4	16 14.0	+1.4
16.0	Br.	.	21 58 18.90	+0.04	66.68	+0.14	.	-12 23 16.9	+1.1	16 14.2	+2.0
19.0	Br.	.	22 9 54.54	-0.05	66.36	+0.12	.	-11 20 3.3	+1.9	16 15.6	+4.0
20.0	Hh.	.	22 13 45.14	0.00	66.20	+0.06	.	-10 58 38.6	+0.6	16 12.4	+1.0
25.0	Br.	.	22 32 48.02	0.00	65.71	+0.02	.	-9 9 4.6	+0.9	16 10.9	+0.7
27.0	Hh.	.	22 40 20.70	-0.12	65.66	+0.13	.	-8 24 14.2	+2.6	16 11.4	+1.6
28.0	Hd.	.	22 44 6.37	0.00	65.48	+0.03	.	-8 1 40.3	+1.0	16 11.8	+2.3
Mar. 7.0	Hd.	.	23 10 11.08	+0.02	64.96	-0.01	.	-5 20 38.1	+2.3	16 8.9	+1.1

SUN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1901			h m s	s	s	s		° ′ ″	″	′ ″	″
Mar. 12.0	La.	.	23 28 36.35	−0.11	64.78	+0.08	.	− 3 23 21.9	+1.1	16 9.0	+2.5
18.0	Hh.	.	23 50 33.71	−0.04	64.47	−0.03	.	− 1 1 21.5	+0.6	16 5.1	+0.2
22.0	K.	.	0 5 8.31	−0.05	64.42	0.00	.	+ 0 33 25.7	−1.0	16 4.4	+0.6
23.0	B.	.	0 8 46.76	+0.06	64.46	+0.05	.	+ 0 57 7.1	+0.8	16 3.8	+0.3
29.0	K.	.	0 30 35.49	−0.04	64.46	+0.07	.	+ 3 18 14.4	−0.2	16 1.7	−0.2
Apr. 1.0	La.	.	0 41 29.92	−0.14	64.53	+0.11	.	+ 4 27	...	.. ...	...
5.0	K.	.	0 56 4.35	+0.12	64.68	+0.17	.	+ 5 59 53.7	−0.1	16 2.2	+2.3
10.0	Br.	.	1 14 21.18	−0.05	64.74	+0.06	.	+ 7 52 23.6	+0.5	15 59.6	+1.0
11.0	La.	.	1 18 1.26	−0.14	64.76	+0.04	.	+ 8 14 31.2	+0.4	16 0.6	+2.3
12.0	B.	.	1 21 41.75	−0.14	64.92	+0.16	.	+ 8 36 31.0	+0.7	15 59.3	+1.3
16.0	B.	I	1 36 27.18	−0.01	.....	....	N.	+10 2 59.8	0.0	.. ....	...
17.0	Br.	.	1 40 9.26	−0.17	65.14	+0.13	.	+10 24 14.4	+1.2	15 57.8	+1.1
26.0	B.	.	2 13 48.04	0.00	65.68	+0.10	.	+13 26 51.2	+0.6	15 57.6	+3.2
29.0	La.	.	2 25 8.96	−0.10	65.98	+0.17	.	+14 23	...	.. ....	...
30.0	B.	.	2 28 57.02	−0.06	65.93	+0.04	.	+14 42 29.8	+0.7	15 54.6	+1.2
May 3.0	B.	.	2 40 24.30	+0.01	66.18	+0.05	.	+15 36 40.8	−0.7	15 54.8	+2.1
4.0	Br.	.	2 44 14.44	0.00	66.30	+0.09	.	+15 54 15.6	+0.5	15 53.6	+1.1
13.0	La.	.	3 19 11.76	−0.06	67.00	+0.07	.	+18 19 53.8	+1.0	15 54.0	+3.5
14.0	B.	.	3 23 7.86	+0.03	67.06	+0.05	.	+18 34 36.6	+1.1	15 50.8	+0.5
June 4.0	B.	II	4 47 45.66	+0.01	.....	....	.	+22 24 45.5	+2.0	15 49.8	+3.0
6.0	La.	.	4 55 59.27	−0.10	68.64	+0.07	.	+22 38 7.2	+0.7	15 47.7	+1.1
8.0	Br.	.	5 4 14.33	−0.09	68.71	+0.06	.	+22 49 55.8	+1.6	15 48.0	+1.6
10.0	Br.	.	5 12 30.55	−0.10	68.82	+0.10	.	+23 0	...	.. ....	...
11.0	B.	.	5 16 39.04	−0.13	68.86	+0.11	.	+23 4 37.3	+2.1	15 47.6	+1.5
12.0	Br.	.	5 20 47.87	−0.05	68.83	+0.05	.	+23 8 42.6	+2.1	15 48.0	+2.0
18.0	B.	.	5 45 43.80	−0.12	68.94	+0.05	.	+23 24 36.3	+1.2	15 46.6	+1.1
24.0	Y.	.	6 10 41.48	−0.06	68.86	−0.01	.	+23 25 40.2	+1.1	15 46.2	+1.0
25.0	B.	.	6 14 50.84	−0.05	68.92	+0.06	.	+23 24 23.6	+0.5	15 46.3	+1.2
26.0	Br.	.	6 19 0.12	−0.01	68.86	+0.01	.	+23 22 43.5	+1.0	15 46.4	+1.3
28.0	B.	.	6 27 18.08	−0.06	68.84	+0.04	.	+23 18 7.0	−0.3	15 46.2	+1.2
29.0	Br.	.	6 31 26.85	−0.01	68.91	+0.14	.	+23 15 14.3	+1.4	15 47.8	+2.8
July 1.0	Y.	.	6 39 43.54	−0.10	68.72	+0.01	.	+23 8 11.6	+1.0	15 44.8	−0.2
2.0	B.	.	6 43 51.61	−0.05	68.72	+0.05	.	+23 4 4.5	+1.3	15 46.2	+1.2
3.0	Br.	.	6 47 59.37	−0.05	68.64	+0.01	.	+22 59 32.5	+1.1	15 45.4	+0.4
5.0	B.	.	6 56 14.02	−0.06	68.60	+0.05	.	+22 49 17.7	+1.9	15 47.4	+2.4
6.0	Br.	.	7 0 20.91	−0.04	68.58	+0.08	.	+22 43 32.8	+0.6	15 46.0	+1.0
9.0	B.	.	7 12 39.45	−0.02	68.43	+0.09	.	+22 24 1.0	+1.4	15 45.8	+0.8
16.0	B.	.	7 41 8.35	−0.04	67.98	+0.09	.	+21 24 59.5	+1.2	15 46.7	+1.4
20.0	Br.	.	7 57 14.06	+0.03	67.70	+0.11	.	+20 43 11.1	+1.3	15 47.6	+2.0
29.0	Y.	.	8 32 52.79	+0.04	66.78	−0.06	.	+18 49	...	.. ....	...
30.0	B.	.	8 36 47.28	−0.07	66.80	+0.04	.	+18 34 53.4	+0.6	15 46.8	+0.3
Aug. 1.0	L.	.	8 44 34.73	0.00	66.64	+0.05	.	+18 5 25.7	+0.4	15 47.4	+0.6
2.0	B.	.	8 48 27.50	−0.02	66.66	+0.16	.	+17 50 15.5	+0.7	15 49.5	+2.6
3.0	L.	.	8 52 19.67	−0.04	66.46	+0.05	.	+17 34 47.2	+0.4	15 47.2	+0.2
8.0	Br.	.	9 11 31.86	−0.03	66.02	+0.05	.	+16 13 13.7	−0.3	15 49.5	+1.8
9.0	B.	.	9 15 20.56	−0.05	66.00	+0.12	.	+15 56 7.4	+0.3	15 48.7	+0.8
10.0	Y.	.	9 19 8.73	−0.04	65.82	+0.02	.	+15 38 45.6	+1.0	15 49.6	+1.6
21.0	Y.	.	10 0 22.46	−0.05	64.96	−0.01	.	+12 12 14.7	+1.1	15 50.2	+0.2
22.0	Br.	.	10 4 4.33	+0.02	64.96	+0.05	.	+11 52 12.8	+1.2	15 51.2	+1.0
26.0	Br.	.	10 18 46.98	+0.03	64.64	−0.01	S.	+10 30 15.9	+1.1	.. ....	...
28.0	Y.	.	10 26 5.72	−0.03	64.57	+0.04	.	+ 9 48 16.0	+0.4	15 52.2	+0.7
30.0	B.	.	10 33 23.05	−0.01	64.54	+0.11	.	+ 9 5 39.1	+0.3	15 54.0	+2.1
Sept. 4.0	L.	.	10 51 30.82	−0.07	64.33	+0.13	.	+ 7 16 38.5	−0.3	15 55.0	+1.9
5.0	Y.	.	10 55 7.65	−0.04	64.22	+0.05	.	+ 6 54 29.8	+1.9	15 53.6	+0.3
6.0	B.	.	10 58 44.30	+0.02	64.18	+0.04	.	+ 6 32 11.2	+1.2	15 54.1	+0.6
7.0	L.	.	11 2 20.67	0.00	64.12	+0.01	.	+ 6 9 44.8	−1.0	15 53.7	−0.1
9.0	Y.	.	11 9 32.92	−0.02	64.14	+0.07	.	+ 5 24 41.1	+2.3	15 56.4	+2.1
11.0	L.	.	11 16 44.65	+0.03	64.06	+0.04	.	+ 4 39 9.0	−0.8	15 55.8	+1.0
13.0	B.	.	11 23 55.82	−0.04	64.06	+0.07	.	+ 3 53 21.4	0.0	15 56.8	+1.5
16.0	Y.	.	11 34 42.20	+0.08	63.97	0.00	.	+ 2 44 9.3	+0.6	15 57.0	+1.0

SUN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1901			h m s	s	s	s		° ′ ″	″	′ ″	″
Sept. 21.0	Y.	.	11 52 38.79	-0.03	64.04	+0.05	.	+ 0 47 50.4	0.0	15 58.9	+1.5
23.0	Y.	.	11 59 49.80	-0.01	64.02	0.00	.	+ 0 1 6.5	-0.3	15 58.6	+0.7
24.0	B.	.	12 3 25.39	-0.05	64.17	+0.13	.	− 0 22 16.1	+0.1	15 59.8	+1.6
26.0	Y.	.	12 10 37.13	0.00	64.05	-0.04	.	− 1 9	...	.. ....	...
30.0	Y.	.	12 25 2.75	-0.03	64.22	0.00	.	− 2 42 32.1	-0.3	16 0.4	+0.6
Oct. 1.0	B.	.	12 28 39.80	-0.02	64.38	+0.12	.	− 3 5 51.9	-1.0	16 0.8	+0.7
3.0	Br.	.	12 35 54.82	-0.02	64.40	+0.05	.	− 3 52 23.7	-0.6	16 1.3	+0.7
4.0	B.	.	12 39 32.89	+0.05	64.54	+0.14	.	− 4 15 35.5	0.0	16 0.9	0.0
5.0	L.	.	12 43 11.26	+0.03	64.50	+0.05	.	− 4 38 46.0	-1.0	16 1.1	-0.1
7.0	Br.	.	12 50 29.19	+0.04	64.69	+0.13	.	− 5 24 53.6	0.0	16 2.6	+0.9
8.0	B.	.	12 54 8.81	+0.08	64.68	+0.06	.	− 5 47 50.8	+1.2	16 2.6	+0.6
11.0	B.	II	13 5 10.16	-0.04	.....	....	S.	− 6 56 17.1	+2.0	.. ....	...
15.0	B.	.	13 19 59.07	+0.04	65.24	+0.10	.	− 8 26 14.5	+0.2	16 5.2	+1.2
16.0	L.	.	13 23 42.65	+0.08	65.34	+0.12	.	− 8 48 26.6	+0.1	16 5.6	+1.4
17.0	Br.	.	13 27 26.72	+0.05	65.37	+0.06	.	− 9 10 29.3	+1.8	16 5.6	+1.1
18.0	B.	.	13 31 11.33	-0.01	65.54	+0.15	.	− 9 32 25.3	+2.3	16 6.0	+1.2
19.0	Br.	.	13 34 56.73	+0.11	65.54	+0.06	.	− 9 54 15.0	+0.6	16 6.1	+1.1
21.0	Br.	.	13 42 29.09	+0.07	65.78	+0.11	.	−10 37 23.8	+1.4	16 6.0	+0.4
22.0	B.	.	13 46 16.25	+0.08	65.84	+0.08	.	−10 58 44.8	+1.1	16 8.8	+3.0
23.0	L.	.	13 50 4.00	+0.02	65.94	+0.08	.	−11 19 56.7	0.0	16 7.2	+1.1
24.0	Br.	.	13 53 52.47	+0.02	65.99	+0.03	.	−11 40 56.9	+0.4	16 8.0	+1.6
25.0	B.	.	13 57 41.60	-0.01	66.16	+0.09	.	−12 1 46.7	+0.3	16 7.9	+1.3

SIX-INCH TRANSIT CIRCLE.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
26.0	L.	.	14 1 31.45	-0.02	66.28	+0.11	.	−12 22 24.7	+1.1	16 8.3	+1.4
28.0	Br.	.	14 9 13.38	-0.01	66.52	+0.14	.	−13 3 8.0	+0.5	16 9.4	+2.0
30.0	L.	.	14 16 58.39	+0.01	66.75	+0.15	.	−13 43 3.8	-1.2	16 10.0	+2.1
Nov. 2.0	L.	.	14 28 41.92	+0.09	67.08	+0.14	.	−14 41 15.0	-0.1	16 11.0	+2.3
6.0	L.	.	14 44 31.37	-0.02	67.54	+0.13	.	−15 55 32.2	-1.0	16 10.6	+1.0
7.0	Y.	.	14 48 30.98	+0.09	67.58	+0.05	.	−16 13 26.6	0.0	16 11.0	+1.1
8.0	Br.	.	14 52 31.25	-0.01	67.73	+0.08	.	−16 31 5.6	+0.1	16 13.2	+3.1
11.0	Y.	.	15 4 37.37	-0.09	67.96	-0.05	.	−17 22 20.7	+0.5	16 11.2	+0.4
13.0	L.	.	15 12 45.84	0.00	68.44	+0.19	.	−17 55 2.4	+0.2	16 13.0	+1.8
14.0	Y.	.	15 16 51.34	+0.04	68.36	-0.01	.	−18 10 55.0	+0.3	16 13.1	+1.6
20.0	L.	.	15 41 41.46	-0.04	69.14	+0.08	.	−19 39 14.6	+1.6	16 14.2	+1.5
22.0	Br.	.	15 50 4.70	+0.01	69.38	+0.10	.	−20 5 53.0	+2.7	16 13.4	+0.3
25.0	Y.	.	16 2 45.27	-0.01	69.78	+0.18	.	−20 43 5.6	+2.3	16 13.8	+0.2
26.0	Br.	II	16 7 0.29	-0.04	.....	....	.	−20 54 46.6	-0.5	16 13.3	-0.5
27.0	L.	.	16 11 16.08	-0.05	70.02	+0.21	.	−21 6 0.6	+0.1	16 16.0	+2.0
30.0	L.	.	16 24 7.96	+0.05	70.22	+0.12	.	−21 37 19.0	+1.8	16 14.6	+0.1
Dec. 2.0	L.	.	16 32 46.01	+0.11	70.34	+0.07	.	−21 56 10.2	+0.8	16 14.8	0.0
5.0	Br.	.	16 45 47.66	-0.05	70.53	+0.03	.	−22 21	...	.. ....	...
6.0	L.	.	16 50 9.60	+0.11	70.79	+0.22	.	−22 28 45.3	+0.4	16 16.9	+1.6
7.0	B.	II	16 54 31.74	-0.07	.....	....	.	−22 35	...	.. ....	...
10.0	Br.	.	17 7 41.82	+0.05	70.98	+0.14	.	−22 54 18.6	+1.0	16 17.4	+1.6
11.0	L.	.	17 12 6.00	+0.03	70.88	-0.01	.	−22 59 36.7	-1.1	16 16.0	+0.1
12.0	Br.	.	17 16 30.51	-0.05	70.98	+0.04	.	−23 4 22.2	+2.3	16 16.0	0.0
17.0	L.	.	17 38 37.98	-0.10	71.32	+0.19	.	−23 21 31.4	+1.3	16 17.4	+0.9
24.0	B.	.	18 9 43.05	-0.01	71.27	+0.07	. .	−23 25 50.6	+2.4	16 16.6	-0.3
27.0	Br.	.	18 23 2.15	-0.03	71.24	+0.08	.	−23 20 38.9	+1.6	16 17.1	+0.1
31.0	L.	.	18 40 45.66	+0.02	71.16	+0.11	.	−23 7 8.7	+1.3	16 17.6	+0.5
1902											
Jan. 2.0	Br.	.	18 49 35.85	-0.11	70.98	+0.01	.	−22 57 34.0	+3.5	16 16.6	-0.5
3.0	B.	.	18 54 0.58	-0.06	71.01	+0.09	.	−22 52 9.0	+0.9	16 18.0	+0.9
4.0	L.	.	18 58 24.90	-0.05	71.00	+0.13	.	−22 46 15.2	-0.2	16 18.5	+1.4
8.0	L.	.	19 15 58.05	0.00	70.75	+0.14	.	−22 18 6.3	-0.8	16 18.9	+1.9
13.0	Br.	.	19 37 42.60	-0.17	70.27	+0.04	.	−21 33 2.2	+2.1	16 17.6	+0.8
14.0	B.	.	19 42 1.80	-0.07	70.28	+0.14	.	−21 22 48.4	-0.3	16 17.8	+1.0
15.0	L.	.	19 46 20.31	0.00	70.20	+0.15	.	−21 12 8.3	1.2	16 17.2	+0.5

SUN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1902			h m s	s	s	s		° ′ ″	″	′ ″	″
Jan. 17.0	B.	.	19 54 55.08	−0.01	70.04	+0.18	.	−20 49 30.5	+2.2	16 18.0	+1.5
20.0	Br.	.	20 7 41.66	−0.10	69.64	+0.08	.	−20 12 41.0	+3.1	16 16.4	+0.1
28.0	B.	.	20 41 11.96	−0.19	68.79	+0.09	.	−18 18 17.6	+2.6	16 15.3	−0.1
Feb. 3.0	Br.	.	21 5 46.34	−0.07	68.16	+0.16	.	−16 38 30.1	−0.7	16 16.2	+1.6
5.0	L.	.	21 13 51.44	+0.05	68.00	+0.23	.	−16 2 46.6	+2.1	16 16.4	−2.1
6.0	Br.	.	21 17 52.61	−0.05	67.76	+0.10	.	−15 44 32.0	+1.3	16 16.0	+1.9
7.0	B.	.	21 21 53.24	+0.11	67.65	+0.10	.	−15 26 0.7	+1.0	16 14.4	+0.5
8.0	Br.	.	21 25 52.80	−0.02	67.58	+0.15	.	−15 7 12.6	+1.9	16 14.6	+0.8
10.0	Br.	.	21 33 49.74	−0.03	67.28	+0.07	.	−14 28 53.8	+0.7	16 14.9	+1.5
12.0	Br.	.	21 41 43.52	−0.02	67.06	+0.07	.	−13 49 36.2	+0.7	16 12.6	−0.4
13.0	Br.	.	21 45 39.16	−0.09	67.02	+0.14	.	−13 29 37.4	+0.1	16 14.2	+1.4
14.0	B.	.	21 49 34.07	−0.13	67.08	+0.31	.	−13 9 24.2	+0.8	16 14.6	+2.0
18.0	B.	I	22 5 6.55	+0.13	....	....	.	−11 46 33.8	−1.4	16 11.8	0.0
19.0	L.	.	22 8 57.58	−0.08	66.50	+0.24	.	−11 25 19.8	+0.7	16 13.6	+2.0
24.0	Br.	.	22 28 3.88	+0.04	65.80	+0.01	N.	− 9 36 46.6	+2.4	.. ....	...
Mar. 1.0	L.	.	22 46 55.09	+0.01	65.56	+0.18	.	− 7 44 38.6	+0.4	16 10.0	+0.7
6.0	Br.	.	23 5 33.68	−0.09	65.12	+0.08	S.	− 5 49 38.7	+1.2	.. ....	...
7.0	Br.	.	23 9 16.14	−0.06	64.96	−0.02	.	− 5 26 22.0	+2.2	16 8.0	+0.2
10.0	Br.	.	23 20 21.16	−0.04	64.86	+0.04	.	− 4 16 10.0	+2.3	16 6.6	−0.5
14.0	Br.	.	23 35 3.04	−0.05	64.72	+0.09	.	− 2 41 53.4	+0.6	16 6.0	0.0
20.0	Br.	.	23 56 57.78	−0.07	64.45	−0.01	.	− 0 19 45.4	+0.5	16 4.3	−0.1
21.0	B.	.	0 0 36.23	−0.08	64.61	+0.17	.	+ 0 3 56.7	+1.1	16 4.8	+0.7
24.0	Br.	.	0 11 30.90	−0.09	64.39	−0.01	.	+ 1 14 55.2	+2.2	16 2.6	−0.7
25.0	B.	.	0 15 9.04	−0.03	64.56	+0.17	.	+ 1 38 29.0	+0.1	16 4.4	+1.4
26.0	L.	.	0 18 47.09	−0.03	64.52	+0.14	.	+ 2 2 1.6	−0.8	16 5.0	+2.2
Apr. 12.0	Br.	II	1 20 48.68	−0.11	.....	....	.	+ 8 31	...	.. ....	...
16.0	Br.	.	1 35 33.62	−0.09	65.00	+0.06	.	+ 9 57 49.8	+1.1	15 58.3	+1.3
24.0	Br.	.	2 5 21.04	−0.06	65.56	+0.13	.	+12 42 48.8	+1.6	15 56.0	+1.0
May 1.0	Br.	.	2 31 49.48	−0.06	66.08	+0.14	.	+14 56 19.0	+0.1	15 55.0	+1.8
2.0	L.	.	2 35 38.61	0.00	66.12	+0.10	.	+15 14 25.4	−1.7	15 53.6	+0.6
5.0	Br.	.	2 47 9.10	−0.09	66.40	+0.13	.	+16 7 20.4	−0.2	15 53.6	+1.3
6.0	L.	.	2 51 0.50	−0.02	66.44	+0.09	.	+16 24 25.4	−1.4	15 53.0	+0.9
8.0	Br.	.	2 58 44.84	−0.07	66.58	+0.07	.	+16 57 49.2	−0.9	15 51.9	+0.3
10.0	S.	.	3 6 31.47	−0.09	66.78	+0.11	.	+17 30 4.9	−0.7	15 51.8	+0.6
14.0	S.	.	3 22 11.48	−0.11	67.04	+0.04	.	+18 31 6.0	+2.5	15 50.4	0.0
15.0	Br.	.	3 26 8.03	+0.04	67.12	+0.04	.	+18 45 32.8	+0.8	15 50.8	+0.6
20.0	L.	.	3 45 58.26	+0.07	67.52	+0.03	.	+19 53 3.6	+0.3	15 49.4	+0.2
22.0	Br.	.	3 53 58.02	−0.09	67.65	+0.01	.	+20 17 43.4	−0.1	15 49.9	+1.1
23.0	L.	II	3 57 58.92	+0.06	.....	....	N.	+20 29 32.0	−0.6	.. ....	...
26.0	Br.	.	4 10 4.25	−0.02	67.98	+0.05	.	+21 2 53.9	+1.4	15 49.4	+1.2
29.0	Br.	.	4 22 14.20	−0.03	68.22	+0.10	.	+21 32 57.4	+0.4	15 48.2	+0.5
June 2.0	Br.	.	4 38 34.10	−0.01	68.46	+0.10	.	+22 7 48.8	−0.6	15 47.6	+0.5
3.0	L.	I	4 42 40.13	0.00	.....	....	N.	+22 15 33.6	−1.4	.. ....	...
4.0	S.	.	4 46 46.52	−0.03	68.47	0.00	.	+22 22 57.8	+0.2	15 46.4	−0.5
6.0	Br.	.	4 55 0.46	−0.03	68.69	+0.12	.	+22 36 32.8	+0.8	15 47.0	+0.4
9.0	Br.	.	5 7 23.67	−0.05	68.76	+0.07	.	+22 53 56.0	+0.9	15 46.6	+0.3
10.0	L.	.	5 11 31.96	−0.02	68.74	+0.01	.	+22 58 55.9	+1.0	15 48.2	+2.0
12.0	Br.	.	5 19 49.02	−0.15	68.83	+0.05	.	+23 7 41.2	−0.1	15 46.8	+0.8
13.0	L.	.	5 23 57.93	−0.11	68.98	+0.18	.	+23 11 26.8	−1.0	15 48.0	+2.1
17.0	L.	.	5 40 34.67	−0.15	69.08	+0.21	.	+23 22 28.0	−0.7	15 47.0	+1.4
18.0	S.	.	5 44 44.15	−0.09	68.81	−0.07	.	+23 24	...	.. ....	...
20.0	L.	.	5 53 3.12	−0.11	69.00	+0.10	.	+23 26 23.3	−1.3	15 45.7	+0.3
24.0	L.	.	6 9 41.12	−0.05	68.98	+0.10	.	+23 25 50.8	−1.3	15 46.0	+0.8
26.0	R.	.	6 17 59.78	−0.03	68.87	+0.02	.	+23 23 7.2	+0.1	15 47.2	+2.1
July 1.0	L.	.	6 38 44.06	+0.01	68.82	+0.11	.	+23 9 2.8	−0.7	15 46.1	+1.1
2.0	S.	.	6 42 52.28	−0.05	68.76	+0.08	.	+23 5 1.8	+0.5	15 45.0	0.0
5.0	S.	.	6 55 15.46	−0.07	68.56	0.00	.	+22 50 30.6	+0.3	15 45.4	+0.4
9.0	S.	.	7 11 41.73	−0.06	68.35	−0.01	.	+22 25 36.4	+0.6	15 44.4	−0.6
11.0	L.	.	7 19 52.48	+0.01	68.38	+0.14	.	+22 10 48.0	−0.6	15 46.9	+1.8
14.0	R.	.	7 32 5.02	−0.05	68.12	+0.07	.	+21 45 48.2	+0.9	15 46.6	+1.4

SUN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1902			h m s	s	s	s		° ′ ″	″	′ ″	″
July 16.0	S.	.	7 40 10.96	−0.04	67.89	−0.02	.	+21 27 14.6	+0.2	15 44.6	−0.7
17.0	R.	.	7 44	....	.....	....	.	+21 17 25.0	−0.1	15 46.6	+1.2
22.0	Br.	.	8 4 16.04	0.00	67.58	+0.13	S.	+20 22 59.3	+1.2	.. ....	...
23.0	S.	.	8 8 14.86	−0.09	67.38	+0.01	.	+20 11 1.4	−0.7	15 46.1	+0.3
24.0	R.	.	8 12 13.25	−0.03	67.34	+0.06	.	+19 58 45.1	−0.8	15 46.9	+1.0
Aug. 1.0	L.	.	8 43 39.34	+0.04	66.70	+0.09	.	+18 8 56.2	0.0	15 46.9	+0.1
2.0	Br.	.	8 47 32.38	−0.03	66.59	+0.07	.	+17 53 50.7	+1.6	15 48.8	+1.9
4.0	R.	.	8 55 16.77	−0.05	66.34	0.00	.	+17 22 45.2	+2.3	15 48.2	+1.1
5.0	L.	.	8 59 8.12	0.00	66.30	+0.05	.	+17 6 44.0	−0.3	15 46.2	−1.1
7.0	R.	.	9 6 48.88	−0.01	66.12	+0.04	.	+16 33 58.4	+0.9	15 48.8	+1.2
8.0	L.	.	9 10 38.32	−0.04	66.15	+0.16	.	+16 17 10.0	−0.1	15 48.6	+0.9
9.0	Br.	.	9 14 27.22	−0.01	65.90	0.00	.	+16 0 7.8	+0.8	15 47.8	−0.1
12.0	Br.	I	9 25 50.18	−0.07	.....	....	N.	+15 7 29.3	+2.6	.. ....	...
13.0	L.	.	9 29 36.67	−0.09	65.65	+0.07	.	+14 49 24.4	+0.4	15 49.3	+0.8
15.0	L.	.	9 37 8.03	−0.06	65.55	+0.13	.	+14 12 37.8	+1.3	15 50.2	+1.3
18.0	R.	.	9 48 21.04	+0.05	65.16	−0.04	.	+13 15 45.2	+0.6	15 50.0	+0.6
19.0	L.	.	9 52 4.17	−0.07	65.18	+0.05	.	+12 56 21.2	−0.4	15 50.2	+0.6
22.0	L.	.	10 3 11.09	−0.06	64.99	+0.07	.	+11 56 58.6	−1.3	15 51.0	+0.8
23.0	Br.	.	10 6 52.59	+0.04	64.89	+0.04	.	+11 36 49.8	+0.4	15 50.7	+0.3
25.0	L.	.	10 14 14.00	−0.06	64.84	+0.12	.	+10 55 54.1	−1.3	15 51.3	+0.5
26.0	Br.	.	10 17 54.12	−0.10	64.78	+0.12	.	+10 35 13.4	+0.9	15 52.1	+1.1
27.0	L.	.	10 21 33.98	−0.02	64.70	+0.10	.	+10 14 19.6	+0.3	15 51.4	+0.2
28.0	R.	II	10 25 13.37	−0.05	.....	....	S.	+ 9 53 18.1	+1.7	.. ....	...
29.0	Br.	.	10 28 52.42	−0.07	64.62	+0.13	.	+ 9 32 5.6	+1.7	15 52.0	+0.4
Sept. 5.0	S.	.	10 54 17.08	+0.02	64.22	+0.04	.	+ 6 59 40.0	+0.7	15 53.8	+0.6
6.0	R.	.	10 57 53.69	−0.06	64.24	+0.10	.	+ 6 37 24.6	+1.5	15 54.8	+1.3
8.0	R.	.	11 5 6.42	−0.03	64.07	−0.02	.	+ 5 52 31.0	−0.8	15 54.8	+0.8
11.0	L.	.	11 15 54.09	+0.02	64.08	+0.05	.	+ 4 44 31.4	−0.3	15 54.4	−0.3
12.0	S.	.	11 19 29.72	+0.08	64.02	+0.01	.	+ 4 21 43.2	+1.6	15 54.8	−0.1
15.0	S.	.	11 30 15.63	−0.08	64.01	+0.03	.	+ 3 12 46.9	+1.2	15 55.2	−0.5
18.0	L.	.	11 41 1.32	+0.04	64.02	+0.05	.	+ 2 3 18.2	+0.3	15 56.8	+0.3
29.0	L.	.	12 20 34.57	+0.08	64.26	+0.08	.	− 2 13 37.6	+0.1	15 59.7	+0.2
Oct. 1.0	R.	.	12 27 48.48	0.00	64.26	+0.01	.	− 3 0 19.2	+0.4	16 1.2	+1.2
2.0	L.	.	12 31 25.86	−0.02	64.40	+0.11	.	− 3 23 38.5	−0.8	16 1.6	+1.3
3.0	S.	.	12 35 3.60	+0.01	64.42	+0.08	.	− 3 46 54.2	−0.4	16 0.6	0.0
6.0	L.	.	12 45 58.69	+0.05	64.57	+0.08	.	− 4 56 23.2	+0.9	16 1.4	0.0
9.0	L.	.	12 56 56.94	−0.04	64.80	+0.12	.	− 6 5 20.8	+0.2	16 2.4	+0.2
10.0	S.	.	13 0 37.16	−0.09	64.76	+0.02	.	− 6 28 10.2	+0.5	16 3.0	+0.5
13.0	L.	.	13 11 40.74	−0.07	65.00	+0.04	.	− 7 36 4.6	+2.4	16 1.6	−1.7
15.0	R.	.	13 19 5.48	−0.16	65.14	+0.02	.	− 8 20 50.7	+3.0	16 5.9	+2.0
16.0	L.	.	13 22 48.91	+0.03	65.41	+0.21	.	− 8 43 6.8	−0.2	16 4.4	+0.2
20.0	R.	.	13 37 47.62	−0.07	65.61	+0.07	.	−10 10 41.6	−1.2	16 5.8	+0.6
21.0	Br.	.	13 41 33.92	−0.05	65.76	+0.13	.	−10 32 13.9	−1.4	16 6.5	+1.0
22.0	R.	.	13 45 20.94	+0.01	65.70	−0.03	.	−10 53 35.8	−0.5	16 5.0	−0.8
23.0	L.	.	13 49 8.68	+0.10	65.90	+0.07	.	−11 14 48.6	0.0	16 5.0	−1.0
25.0	R.	.	13 56 45.93	−0.09	66.08	+0.04	.	−11 56 43.2	+1.2	16 6.8	+0.2
28.0	Br.	.	14 8 17.64	−0.03	66.38	+0.03	.	−12 58 13.8	+1.8	16 7.8	+0.5
29.0	L.	.	14 12 9.70	−0.05	66.56	+0.10	.	−13 18 22.0	+0.4	16 7.8	+0.2
30.0	L.	.	14 16 2.58	0.00	66.66	+0.09	.	−13 38 16.6	0.0	16 8.2	+0.3
31.0	Br.	.	14 19 56.08	−0.12	66.74	+0.06	.	−13 57 55.8	+2.1	16 8.6	+0.5
Nov. 1.0	R.	.	14 23 50.58	−0.01	66.90	+0.11	.	−14 17 24.3	+1.5	16 9.4	+1.0
3.0	L.	.	14 31 41.87	+0.09	67.07	+0.05	.	−14 55 39.4	+0.3	16 8.8	−0.1
4.0	Br.	.	14 35 38.58	0.00	67.16	+0.02	.	−15 14 24.5	+0.7	16 8.3	−0.8
10.0	L.	.	14 59 36.42	−0.07	67.94	+0.08	.	−17 1 27.6	−0.7	16 10.1	−0.4
13.0	L.	.	15 11 46.58	−0.03	68.26	+0.04	.	−17 51 7.4	+0.1	16 10.8	−0.4
19.0	R.	.	15 36 29.56	−0.10	68.92	0.00	.	−19 21 56.2	−1.0	16 12.4	0.0
20.0	L.	.	15 40 39.82	+0.02	69.12	+0.09	.	−19 35 52.4	−0.2	16 11.2	−1.4
21.0	Br.	.	15 44 50.70	−0.09	69.15	+0.01	.	−19 49 27.3	+0.6	16 13.5	+0.7
28.0	Br.	.	16 14 30.18	−0.02	69.96	+0.08	.	−21 14 11.4	+1.1	16 14.4	+0.3
29.0	R.	.	16 18 47.38	−0.07	69.98	0.00	.	−21 24 45.1	+0.2	16 13.7	−0.6

SUN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1902			h m s	s	s	s		° ′ ″	″	′ ″	″
Dec. 1.0	L.	.	16 27 23.94	—0.04	70.27	+0.11	.	—21 44 37.6	0.0	16 13.7	—0.9
2.0	Br.	.	16 31 43.29	+0.05	70.29	+0.04	.	—21 53 54.7	+1.7	16 14.8	+0.1
8.0	L.	.	16 57 50.88	—0.08	70.72	+0.02	.	—22 40 51.0	—1.1	16 15.8	+0.3
9.0	Br.	.	17 2 13.86	—0.17	70.83	+0.06	.	—22 47 4.7	+1.8	16 15.5	—0.2
10.0	R.	.	17 6 37.41	—0.12	70.89	+0.06	.	—22 52 55.2	+1.2	16 16.2	+0.4
18.0	L.	I	17 41 57.98	+0.01	.....	....	.	—23 23 5.6	—0.4	16 17.0	+0.5
19.0	Br.	.	17 46 24.10	—0.06	71.18	+0.02	.	—23 24 43.8	+2.0	16 16.8	+0.2
26.0	Br.	.	18 17 29.92	—0.08	71.22	+0.03	.	—23 23 16.6	+1.5	16 16.6	—0.4
27.0	R.	.	18 21 56.38	—0.09	71.22	+0.05	.	—23 21	...	.. ....	...
30.0	Br.	.	18 35 14.80	—0.14	71.14	+0.06	.	—23 12 4.8	+2.1	16 18.0	+0.9
1903											
Jan. 9.0	Br.	.	19 19 15.55	—0.08	70.64	+0.02	.	—22 11 57.8	+0.5	16 17.6	—0.2
10.0	R.	.	19 23 37.01	—0.11	70.45	—0.09	.	—22 3 31.2	—0.7	16 15.8	—1.9
12.0	L.	.	19 32 18.24	—0.12	70.52	+0.14	.	—21 45 17.8	—0.3	16 17.6	0.0
13.0	Br.	.	19 36 37.98	—0.10	70.32	+0.02	.	—21 35 31.4	+1.5	16 16.4	—1.2
15.0	L.	.	19 45 15.66	+0.04	70.19	+0.07	.	—21 14 49.2	—0.5	16 17.2	—0.3
16.0	Br.	.	19 49 33.36	—0.06	70.10	+0.07	.	—21 3 48.2	+1.5	16 16.4	—1.0
19.0	L.	.	20 2 22.66	—0.08	69.88	+0.14	.	—20 28 28.5	+0.2	16 17.3	+0.1
21.0	R.	.	20 10 52.01	—0.08	69.54	0.00	.	—20 3 0.0	—2.1	16 16.8	—0.2
31.0	R.	.	20 52 32.46	—0.08	68.44	+0.01	.	—17 33 51.3	+0.3	16 15.1	—0.7
Feb. 9.0	L.	.	21 28 52.51	—0.09	67.50	+0.10	.	—14 52 56.4	—0.4	16 14.3	—0.1
10.0	Br.	.	21 32 50.63	—0.08	67.26	—0.03	.	—14 33 41.5	+1.4	16 13.4	—0.8
12.0	L.	.	21 40 44.60	+0.04	67.14	+0.08	.	—13 54 33.4	+0.3	16 13.1	—0.7
13.0	Br.	.	21 44 40.20	—0.13	66.96	+0.01	.	—13 34 36.0	+2.2	16 12.6	—1.1
18.0	R.	.	22 4 8.06	—0.15	66.52	+0.08	.	—11 51 48.4	0.0	16 12.4	—0.2
19.0	L.	.	22 7 59.56	—0.14	66.50	+0.16	.	—11 30 38.7	+0.1	16 12.9	+0.5
20.0	Br.	.	22 11 50.39	—0.12	66.31	+0.07	.	—11 9 17.1	+1.2	16 13.9	+1.7
24.0	Br.	.	22 27 7.16	—0.20	65.92	+0.05	.	— 9 42 15.2	+0.5	16 11.6	+0.3
25.0	R.	.	22 30 54.80	—0.24	65.82	+0.04	.	— 9 20 9.1	—2.1	16 11.3	+0.2
26.0	L.	.	22 34 42.08	—0.06	65.72	+0.02	.	— 8 57 49.6	+0.2	16 11.3	+0.5
Mar. 3.0	Br.	.	22 53 29.13	—0.16	65.33	+0.01	.	— 7 4 29.9	+2.9	16 9.0	—0.7
12.0	L.	.	23 26 48.27	—0.01	64.80	+0.02	.	— 3 34 57.9	—0.2	16 6.1	—1.3
13.0	Br.	.	23 30 28.30	—0.21	64.80	+0.06	.	— 3 11 21.8	+1.2	16 6.6	—0.6
14.0	R.	.	23 34 8.40	—0.05	64.56	—0.14	.	— 2 47 45.6	+0.5	16 6.0	—0.9
18.0	R.	.	23 48 45.80	—0.01	64.56	0.00	.	— 1 13 4.6	—0.7	16 5.2	—0.6
25.0	R.	.	0 14 15.29	—0.05	64.48	+0.03	.	+ 1 32 41.2	+0.5	16 5.2	+1.4
26.0	L.	.	0 17 53.53	—0.04	64.56	+0.12	.	+ 1 56 15.8	+0.2	16 3.7	+0.1
27.0	L.	.	0 21 31.80	+0.02	64.46	+0.02	.	+ 2 19 49.9	+1.9	16 2.1	—1.2
Apr. 1.0	R.	.	0 39 43.04	—0.11	64.52	+0.05	.	+ 4 16 38.2	—1.0	16 1.7	—0.2
6.0	L.	.	0 57 56.56	+0.01	64.62	+0.04	.	+ 6 11 30.2	—1.8	15 59.8	—0.8
9.0	L.	.	1 8 54.38	—0.12	64.76	+0.08	.	+ 7 19 10.2	—2.6	15 59.0	—0.8
10.0	Br.	.	1 12 34.18	—0.06	64.74	+0.03	.	+ 7 41 31.7	—0.2	15 59.3	—0.2
17.0	Br.	.	1 38 20.72	—0.05	65.08	+0.05	.	+10 13 50.8	+1.0	15 56.6	—1.0
18.0	R.	.	1 42 3.08	—0.05	65.12	+0.03	.	+10 34 56.8	—0.8	15 57.0	—0.3
21.0	L.	.	1 53 12.64	—0.01	65.38	+0.11	.	+11 37 15.6	—2.0	15 56.4	—0.1
24.0	Br.	.	2 4 26.11	—0.06	65.48	+0.02	.	+12 37 56.0	+0.8	15 56.2	+0.5
27.0	L.	.	2 15 43.98	—0.01	65.77	+0.10	.	+13 36 41.2	—0.1	15 53.8	—1.2
28.0	Br.	.	2 19 30.86	—0.05	65.74	—0.01	.	+13 55 51.6	+1.3	15 54.3	—0.4
29.0	L.	.	2 23 18.31	—0.02	65.90	+0.08	.	+14 14 45.9	+0.4	15 54.3	—0.2
30.0	L.	.	2 27 6.22	—0.05	65.94	+0.05	.	+14 33 27.7	+1.1	15 53.6	—0.6
May 1.0	Br.	.	2 30 54.67	—0.05	65.98	0.00	.	+14 51 54.6	+1.2	15 55.4	+1.4
2.0	R.	.	2 34 43.54	—0.15	66.08	+0.02	.	+15 10 5.8	+0.4	15 54.2	+0.4
4.0	L.	.	2 42 23.14	—0.04	66.29	+0.07	.	+15 45 43.6	—0.4	15 53.0	—0.3
5.0	Br.	II	2 46 13.69	—0.03	.....	....	.	+16 3 11.0	+1.2	15 53.0	—0.1
6.0	R.	.	2 50 4.71	—0.09	66.32	—0.06	.	+16 20 19.5	—0.1	15 53.2	+0.3
7.0	L.	.	2 53 56.42	—0.01	66.48	+0.02	.	+16 37 12.3	—0.9	15 51.7	—1.0
8.0	Br.	.	2 57 48.55	—0.05	66.61	+0.07	.	+16 53 51.6	+1.4	15 52.1	—0.3
9.0	R.	.	3 1 41.36	+0.01	66.62	0.00	.	+17 10 9.8	—0.5	15 52.6	+0.4
13.0	R.	.	3 17 18.00	—0.01	66.94	—0.01	.	+18 12 36.1	+0.1	15 52.5	+1.1
15.0	Br.	.	3 25 9.78	—0.06	67.08	—0.03	.	+18 42 2.1	+2.1	15 50.1	—0.9
19.0	L.	.	3 41 0.40	—0.08	67.44	+0.01	.	+19 37 0.4	+0.8	15 48.4	—1.8

SUN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1903			h m s	s	s	s		° ′ ″	″	′ ″	″
May 20.0	R.	.	3 44 59.58	−0.01	67.52	+0.01	.	+19 49 55.3	−0.1	15 50.5	+0.5
21.0	L.	.	3 48 59.26	−0.01	67.62	+0.03	.	+20 2 30.8	−0.1	15 49.7	−0.1
June 3.0	R.	.	4 41 41.24	+0.01	68.40	−0.05	.	+22 13 46.0	+1.9	15 47.4	−0.4
4.0	L.	.	4 45 47.37	−0.08	68.52	+0.02	.	+22 21 12.0	−0.2	15 46.4	−1.2
12.0	Br.	.	5 18 48.12	−0.12	68.80	−0.01	N.	+23 6 41.9	+0.2	.. ....	...
15.0	L.	II	5 31 15.02	+0.01	.....	....	.	+23 17 4.2	−1.2	15 44.6	−1.9
16.0	Br.	.	5 35 24.16	−0.10	68.88	−0.02	.	+23 19 44.6	+0.5	15 45.5	−0.9
18.0	L.	.	5 43 43.10	−0.02	68.90	−0.03	.	+23 23 46.4	−1.0	15 44.9	−1.3
19.0	Br.	.	5 47 52.62	−0.07	68.98	+0.04	.	+23 25 13.0	+1.0	15 45.4	−0.8
22.0	L.	.	6 0 21.60	−0.09	68.96	+0.02	.	+23 26 56.0	−0.9	15 44.9	−1.1
30.0	Br.	.	6 33 36.14	+0.02	68.82	+0.02	.	+23 13 29.4	+1.5	15 45.0	−0.7
July 1.0	R.	.	6 37 44.63	0.00	68.77	0.00	.	+23 9 56.6	+0.3	15 45.2	−0.5
2.0	L.	.	6 41 52.86	−0.02	68.76	+0.02	.	+23 6 0.0	−0.3	15 44.5	−1.2
3.0	Br.	.	6 46 0.84	−0.01	68.70	0.00	.	+23 1 41.6	+1.4	15 45.8	+0.1
7.0	Br.	.	7 2 29.48	−0.06	68.52	0.00	.	+22 40 19.6	−0.1	15 45.6	−0.1
8.0	R.	.	7 6 35.84	−0.01	68.44	−0.03	.	+22 34 0.7	+0.5	15 45.6	−0.1
9.0	L.	.	7 10 41.78	+0.02	68.44	+0.02	.	+22 27 16.6	−0.8	15 44.6	−1.2
10.0	Br.	.	7 14 47.22	−0.06	68.38	+0.02	.	+22 20 11.2	0.0	15 45.3	−0.5
11.0	R.	.	7 18 52.43	+0.05	68.25	−0.05	.	+22 12 42.6	+0.7	15 46.2	+0.4
14.0	Br.	.	7 31 5.06	−0.03	68.13	+0.02	.	+21 47 57.2	+0.3	15 45.4	−0.5
15.0	L.	.	7 35 8.42	0.00	68.08	+0.04	.	+21 38 55.2	−1.6	15 45.0	−1.0
16.0	L.	.	7 39 11.30	+0.02	67.98	+0.01	.	+21 29 34.2	−0.4	15 45.2	−0.8
17.0	Br.	.	7 43 13.66	+0.02	67.84	−0.06	.	+21 19 50.2	−0.1	15 46.2	+0.1
20.0	L.	.	7 55 17.69	−0.03	67.66	−0.01	.	+20 48 26.6	−1.2	15 46.2	0.0
21.0	Br.	.	7 59 17.98	−0.05	67.56	−0.03	.	+20 37 18.3	+0.6	15 45.6	−0.7
23.0	L.	.	8 7 16.98	−0.04	67.46	+0.03	.	+20 13 55.8	+0.2	15 45.4	−1.1
24.0	Br.	.	8 11 15.58	−0.08	67.34	−0.01	.	+20 1 44.6	+0.7	15 46.6	0.0
25.0	R.	.	8 15 13.76	+0.04	67.24	−0.03	.	+19 49 12.2	+0.1	15 45.8	−0.8
28.0	Br.	.	8 27 4.27	−0.02	67.03	+0.01	.	+19 9 40.0	+0.7	15 46.6	−0.4
30.0	L.	.	8 34 54.92	−0.02	66.92	+0.08	.	+18 41 42.0	−0.3	15 46.6	−0.6
Aug. 5.0	R.	.	8 58 11.90	+0.03	66.28	−0.04	.	+17 10 40.0	+0.8	15 46.6	−1.4
7.0	Br.	.	9 5 52.55	−0.05	66.15	0.00	.	+16 38 2.8	+1.1	15 47.2	−1.1
10.0	L.	.	9 17 19.19	−0.05	65.91	+0.01	.	+15 47 6.2	+0.8	15 48.0	−0.7
12.0	R.	.	9 24 54.11	−0.03	65.70	−0.03	.	+15 11 51.7	+0.6	15 48.9	−0.1
17.0	R.	.	9 43 41.96	+0.04	65.26	−0.08	.	+13 39 35.5	+0.6	15 50.0	+0.1
21.0	R.	.	9 58 35.10	−0.01	65.02	−0.03	.	+12 21 49.9	+1.5	15 50.2	−0.4
22.0	Br.	.	10 2 17.12	−0.10	64.96	−0.02	.	+12 1 52.2	+0.6	15 50.8	0.0
24.0	R.	.	10 9 40.02	−0.05	64.80	−0.05	.	+11 21 24.0	+0.1	15 50.8	−0.4
25.0	Br.	.	10 13 20.82	−0.01	64.83	+0.04	.	+11 0 52.8	−1.0	15 50.8	−0.6
Sept. 3.0	L.	.	10 46 9.86	−0.04	64.37	+0.05	.	+ 7 49 11.2	−1.9	15 52.2	−1.2
4.0	R.	.	10 49 46.99	−0.02	64.23	−0.05	.	+ 7 27 12.4	−0.9	15 52.8	−0.8

MOON.

SIX-INCH TRANSIT CIRCLE.

1900			h m s	s	s	s		° ′ ″	″	′ ″	″
Jan. 4.1	La.	I	21 56 50.41	+0.11	.....	....	S.	− 7 19 45.7	+1.1	.. ....	...
5.2	B.	I	22 52 51.20	+0.17	.....	....	S.	− 1 30 43.7	+2.0	.. ....	...
6.2	U.	I	23 47 37.19	+0.18	.....	....	S.	+ 4 17 40.0	+2.6	.. ....	...
7.2	Br.	I	0 42 5.45	+0.05	.....	....	S.	+ 9 44 54.0	+2.4	.. ....	...
8.3	La.	I	1 37 6.05	+0.24	.....	....	S.	+14 33 15.7	+0.9	.. ....	...
9.3	Br.	I	2 33 9.73	+0.22	.....	....	S.	+18 27 35.4	+1.6	.. ....	...
12.4	B.	I	5 25 46.98	+0.26	.....	....	S.	+23 1 51.4	+0.5	.. ....	...
13.5	U.	I	6 22 6.82	+0.38	.....	....	N.	+21 59 54.4	+0.1	.. ....	...
15.5	La.	II	8 7 57.43	+0.21	.....	....	S.	+16 44 52.0	+0.4	.. ....	...

MOON—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1900			h m s	s	s	s		° ′ ″	″	′ ″	″
Jan. 23.8	Br.	II	14 23 57.27	+0.01	.....	....	S.	−17 47 33.3	−2.1	.. ....	...
25.8	La.	II	16 16 15.49	−0.06	.....	....	.	−22 30	...	.. ....	...
26.9	Br.	II	17 17 32.86	−0.01	.....	....	.	−23 0	...	.. ....	...
Feb. 3.1	B.	I	0 21 29.30	+0.05	.....	....	S.	+ 7 33 51.9	+2.2	.. ....	...
5.2	La.	I	2 15 9.33	+0.26	.....	....	S.	+17 7 41.0	+2.9	.. ....	...
6.3	Br.	I	3 12 49.02	+0.38	.....	....	S.	+20 20 32.6	+0.4	.. ....	...
8.3	La.	I	5 8 18.24	+0.42	.....	....	S.	+22 57 3.4	+0.5	.. ....	...
9.4	Br.	I	6 4 36.67	+0.60	.....	....	S.	+22 20 5.2	−0.2	.. ....	...
13.5	Br.	I	9 28 1.85	+0.30	.....	....	.	+10 13 24.6	−2.0	14 48.8	+2.6
19.7	Ei.	II	14 5 23.34	−0.03	.....	....	S.	−16 18 38.9	−2.4	.. ....	...
20.7	Br.	II	14 57 13.15	−0.01	.....	....	S.	−19 26 10.4	−1.4	.. ....	...
22.8	B.	II	16 50 9.40	−0.06	.....	....	S.	−22 43 58.7	−1.8	.. ....	...
25.9	Ei.	II	19 54 16.61	−0.13	.....	....	.	−17 31	...	.. ....	...
26.9	Br.	II	20 55 26.74	−0.29	.....	....	.	−13 2	...	.. ....	...
Mar. 3.1	Br.	I	0 51 32.91	−0.07	.....	....	.	+10 14	...	.. ....	...
7.2	Br.	I	4 48 59.34	+0.47	.....	....	S.	+22 36 53.7	+1.1	.. ....	...
10.3	Br.	.	7 34	....	.....	....	N.	+18 36 23.8	−0.4	.. ....	...
12.4	Ei.	I	9 12 44.22	+0.39	.....	....	N.	+11 30 22.4	−0.4	.. ....	...
16.5	Ei.	II	12 14 42.53	+0.05	.....	....	S.	− 6 39 25.9	−1.1	.. ....	...
17.6	Br.	II	13 1 20.72	+0.10	.....	....	S.	−11 1 53.3	−2.7	.. ....	...
19.6	Ei.	II	14 40 38.09	−0.01	.....	....	S.	−18 18 23.2	−1.3	.. ....	...
20.7	Br.	II	15 34 5.53	−0.01	.....	....	S.	−20 47 43.4	−1.6	.. ....	...
21.7	Ei.	II	16 30 7.05	+0.04	.....	....	S.	−22 14 20.6	−1.1	.. ....	...
22.7	Br.	II	17 28 13.53	−0.09	.....	....	S.	−22 27 30.6	−1.7	.. ....	...
26.9	Br.	II	21 25 19.26	−0.29	.....	....	.	−10 16	...	.. ....	...
27.9	Ei.	II	22 23 25.63	−0.18	.....	....	.	− 4 41	...	.. ....	...
Apr. 3.2	La.	I	4 23 25.76	+0.36	.....	....	S.	+22 2 40.3	+0.2	.. ....	...
5.2	Br.	I	6 21 12.92	+0.45	.....	....	N.	+21 25 23.9	+0.1	.. ....	...
7.3	Br.	I	8 7 30.37	+0.33	.....	....	N.	+16 20 46.4	−1.1	.. ....	...
8.3	Br.	I	8 56 24.45	+0.31	.....	....	N.	+12 41 8.9	−1.7	.. ....	...
9.4	Ei.	I	9 43 14.35	+0.45	.....	....	N.	+ 8 32 34.0	−0.6	.. ....	...
10.4	La.	I	10 28 45.64	+0.44	.....	....	N.	+ 4 5 8.2	−1.8	.. ....	...
14.5	La.	.	13 33 43.46	+0.17	63.59	−0.06	S.	−13 41 15.9	−1.1	.. ....	...
15.5	Br.	II	14 24 13.42	−0.02	.....	....	S.	−17 13 38.3	−1.1	.. ....	...
19.7	Br.	II	18 8 58.15	−0.08	.....	....	N.	−21 37 20.5	−2.9	.. ....	...
23.8	Ei.	II	21 58 54.31	−0.24	.....	....	N.	− 6 56 46.9	−4.2	.. ....	...
24.9	Ei.	II	22 54 56.58	−0.18	.....	....	N.	− 1 19 54.7	−4.2	.. ....	...
25.9	Br.	II	23 51 30.96	−0.32	.....	....	.	+ 4 26	...	.. ....	...
May 5.2	Hd.	I	8 37 23.83	+0.49	.....	....	N.	+14 0 48.6	−2.6	.. ....	...
6.3	La.	I	9 25 28.00	+0.31	.....	....	N.	+10 0 6.7	−2.3	.. ....	...
7.3	Ei.	I	10 11 39.54	+0.44	.....	....	N.	+ 5 38 10.3	−1.7	.. ....	...
8.3	Hd.	I	10 56 51.76	+0.48	.....	....	N.	+ 1 4 34.2	−3.0	.. ....	...
9.4	Ei.	I	11 41 59.28	+0.36	.....	....	N.	− 3 31 47.3	−1.9	.. ....	...
10.4	Hd.	I	12 27 55.76	+0.48	.....	....	N.	− 8 1 58.8	−3.3	.. ....	...
14.5	Br.	II	15 53 32.60	0.00	.....	....	S.	−21 13 50.8	−1.3	.. ....	...
15.6	Hd.	II	16 51 20.65	−0.04	.....	....	S.	−22 12 57.9	+3.1	.. ....	...
17.6	Hd.	II	18 49 48.47	−0.10	.....	....	N.	−20 15 1.9	+0.2	.. ....	...
21.8	Br.	II	22 35 39.43	−0.31	.....	....	N.	− 3 11 32.5	−2.9	.. ....	...
22.8	Hd.	II	23 30 21.80	−0.32	.....	....	.	+ 2 23	...	.. ....	...
25.9	Hd.	II	2 22 16.23	−0.31	.....	....	.	+17 7	...	.. ....	...
June 1.2	Ei.	I	8 15 37.39	+0.33	.....	....	.	+15 32	...	.. ....	...
3.2	Hd.	I	9 52 53.41	+0.44	.....	....	N.	+ 7 23 58.9	−3.2	.. ....	...
4.2	Ei.	I	10 38 41.09	+0.44	.....	....	N.	+ 2 52 33.7	−1.5	.. ....	...
5.3	B.	I	11 23 48.72	+0.37	.....	....	N.	− 1 43 52.1	−3.0	.. ....	...
6.3	Ei.	I	12 9 13.54	+0.38	.....	....	N.	− 6 16 37.3	−1.8	.. ....	...
7.3	Hd.	I	12 55 51.12	+0.37	.....	....	N.	−10 36 52.3	−3.2	.. ....	...
9.4	B.	I	14 35 58.67	+0.25	.....	....	N.	−17 56 35.9	−2.0	.. ....	...
10.4	Hd.	I	15 30 30.90	+0.11	.....	....	N.	−20 29 42.6	−4.4	.. ....	...
11.5	Ei.	I	16 27 59.91	+0.02	.....	....	N.	−21 58 42.9	−1.3	.. ....	...
14.6	Hd.	II	19 28 20.57	−0.27	.....	....	.	−18 28	...	.. ....	...

MOON—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1900			h m s	s	s	s		° ′ ″	″	′ ″	″
June 19.8	B.	II	0 8 29.26	−0.23	.....	....	N.	+ 6 10 40.8	−3.3	.. ....	...
20.8	Ei.	II	1 4 0.40	−0.31	.....	....	N.	+11 17 50.9	−2.3	.. ....	...
21.8	Hd.	II	2 1 6.99	−0.29	.....	....	.	+15 44	...	.. ....	...
29.1	Br.	I	8 44 36.47	+0.19	.....	....	.	+13 26	...	.. ....	...
30.1	B.	I	9 33 22.31	+0.27	.....	....	N.	+ 9 17 21.6	−0.4	.. ....	...
July 1.2	B.	I	10 20 4.82	+0.32	.....	....	N.	+ 4 49 9.2	−1.5	.. ....	...
2.2	Ei.	I	11 5 34.27	+0.24	.....	....	N.	+ 0 12 57.1	−0.5	.. ....	...
6.3	Ei.	I	14 13 28.07	+0.22	.....	....	N.	−16 30 4.0	−1.7	.. ....	...
7.3	Br.	I	15 6 2.17	+0.09	.....	....	N.	−19 25 8.5	+0.5	.. ....	...
8.4	B.	I	16 1 48.45	+0.12	.....	....	N.	−21 24 30.5	−1.7	.. ....	...
9.4	Ei.	I	17 0 28.93	+0.12	.....	....	.	−22 13	...	.. ....	...
10.4	Br.	I	18 1 8.97	+0.26	.....	....	.	−21 42 8.3	−1.7	15 52.4	−0.5
11.5	Ei.	I	19 2 28.28	−0.01	.....	....	N.	−19 44 58.8	−1.6	.. ....	...
13.6	Ei.	II	21 2 20.83	−0.36	.....	...	N.	−12 2 51.9	−1.1	.. ....	...
14.6	Br.	II	21 59 51.83	−0.35	.....	....	N.	− 6 51 28.9	−3.6	.. ....	...
15.6	B.	II	22 56 3.76	−0.24	.....	....	N.	− 1 15 28.5	−3.5	.. ....	...
16.7	Ei.	II	23 51 38.51	−0.27	.....	....	N.	+ 4 22 39.1	−2.5	.. ....	...
17.7	Br.	II	0 47 24.75	−0.21	.....	....	N.	+ 9 41 44.2	−3.3	.. ....	...
20.8	Br.	II	3 41 6.58	−0.02	.....	....	N.	+20 44 43.3	−0.5	.. ....	...
28.1	Br.	I	10 2 10.74	+0.27	.....	....	.	+ 6 41	...	.. ....	...
31.2	Br.	I	12 18 52.49	+0.25	.....	....	.	− 6 55	...	.. ....	...
Aug. 1.2	B.	I	13 5 11.08	+0.35	.....	....	N.	−11 8 17.6	−1.9	.. ....	...
2.2	Br.	I	13 53 12.29	+0.25	.....	....	N.	−14 55 13.7	−1.6	.. ....	...
3.2	Ei.	I	14 43 37.75	+0.25	.....	....	N.	−18 6 12.9	−2.3	.. ....	...
4.3	B.	I	15 36 55.62	+0.21	.....	....	N.	−20 29 16.5	−2.6	.. ....	...
5.3	Br.	I	16 33 11.95	+0.12	.....	....	N.	−21 51 23.8	−0.3	.. ....	...
6.4	Ei.	I	17 32 2.97	+0.24	.....	....	N.	−22 0 24.0	−1.9	.. ....	...
7.4	La.	I	18 32 34.64	+0.09	.....	....	N.	−20 47 31.9	−3.1	.. ....	...
8.4	Ei.	I	19 33 38.20	+0.18	.....	....	.	−18 10 50.9	+0.9	16 11.8	−0.6
9.5	Br.	I	20 34 11.56	+0.24	.....	...	S.	−14 17 30.9	−1.2	.. ....	...
10.5	Ei.	II	21 33 39.39	−0.12	.....	....	N.	− 9 22 55.8	−1.5	.. ....	...
11.5	La.	II	22 32 0.08	−0.18	.....	....	N.	− 3 48 55.8	−1.4	.. ....	...
14.7	La.	II	1 25 2.53	−0.34	.....	....	N.	+12 40 55.4	−1.2	.. ....	...
16.7	Br.	II	3 23 18.18	−0.02	.....	....	N.	+19 52 31.2	0.0	.. ....	...
30.2	Br.	I	14 24 57.38	+0.14	.....	....	.	−16 46	...	.. ....	...
31.2	Ei.	I	15 16 15.05	+0.12	.....	....	N.	−19 25 45.7	−3.3	.. ....	...
Sept. 1.2	B.	I	16 10 5.43	+0.24	.....	....	N.	−21 11 8.3	−2.5	.. ....	...
2.3	Hd.	I	17 6 20.79	+0.17	.....	....	N.	−21 51 46.4	−3.3	.. ....	...
3.3	Ei.	I	18 4 31.58	+0.22	.....	....	.	−21 18 32.8	−0.6	15 37.5	−2.6
4.3	Hd.	I	19 3 51.39	+0.16	.....	....	S.	−19 26 29.0	+1.3	.. ....	...
5.4	B.	I	20 3 31.79	+0.23	.....	....	S.	−16 16 40.7	0.0	.. ...	...
6.4	Ei.	I	21 2 57.43	+0.28	.....	....	S.	−11 57 28.0	−1.4	.. ....	...
7.5	Hd.	I	22 1 56.31	+0.23	.....	....	S.	− 6 44 29.9	+1.1	.. ....	...
17.8	B.	II	7 51 39.07	+0.02	.....	....	.	+16 55	...	.. ....	...
18.9	Hh.	II	8 42 17.08	−0.02	.....	....	.	+13 30	...	.. ....	...
27.1	Hd.	I	14 59 17.57	+0.04	.....	....	.	−18 26	...	.. ....	...
Oct. 5.4	Ei.	I	22 29 38.83	+0.17	.....	....	S.	− 3 58 29.1	+0.8	.. ....	...
6.4	Ei.	I	23 27 50.10	+0.27	.....	....	S.	+ 1 45 7.8	+2.4	.. ....	...
7.5	K.	I	0 27 11.81	+0.19	.....	....	N.	+ 7 26 12.9	−1.2	.. ....	...
9.6	K.	II	2 30 42.23	+0.49	.....	....	N.	+16 52 36.4	−0.4	.. ....	...
10.6	K.	.	3 34	....	.....	....	N.	+19 50 47.8	+0.1	.. ....	...
11.6	B.	II	4 37 31.08	+0.37	.....	....	N.	+21 20 53.7	+2.0	.. ...	...
14.7	B.	II	7 33 30.00	+0.17	.....	....	S.	+17 42 54.3	+0.3	.. ....	...
15.8	Hh.	II	8 25 38.26	+0.06	.....	....	S.	+14 30 52.3	+0.7	.. ....	...
16.8	Br.	II	9 14 54.99	+0.03	.....	....	S.	+10 43 18.8	−0.6	.. ....	...
17.8	B.	II	10 2 3.28	+0.09	.....	....	S.	+ 6 32 28.2	+2.2	.. ....	...
18.9	Hh.	II	10 47 51.67	+0.25	.....	....	.	+ 2 8	...	.. ....	...
19.9	Br.	II	11 33 8.84	+0.15	.....	....	.	− 2 18	...	.. ....	...
27.1	Br.	I	17 24 44.19	+0.23	.....	....	.	−21 25	...	.. ....	...
29.2	Hh.	I	19 17 14.84	+0.30	.....	....	S.	−18 25 44.1	+0.7	.. ....	...

MOON—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1900			h m s	s	s	s		° ′ ″	″	′ ″	″
Oct. 30.2	Br.		20 13 11.41	+0.23	.....	....	S.	−15 15 51.1	−1.9	.. ....	...
Nov. 2.3	Ei.	I	22 59 46.70	+0.19	.....	....	S.	− 0 54 17.8	+0.7	.. ....	...
4.4	B.	I	0 55 33.54	+0.17	.....	....	S.	+ 9 59 41.9	+2.0	.. ....	...
9.6	Hd.	II	6 11 1.54	+0.29	.....	....	S.	+20 43 13.8	+0.7	.. ....	...
12.7	Hd.	II	8 56 13.01	+0.17	.....	....	S.	+12 6 32.2	−0.6	.. ....	...
27.2	S.	I	20 51 25.84	+0.29	.....	....	S.	−12 28 22.2	0.0	.. ....	...
29.3	Br.	I	22 39 40.37	+0.14	.....	....	S.	− 2 49 47.2	+3.0	.. ....	...
30.3	Hh.	I	23 34 8.42	+0.10	.....	....	S.	+ 2 29 55.6	+2.0	.. ....	...
Dec. 2.4	Br.	I	1 27 59.47	+0.03	.....	....	S.	+12 38 34.1	+2.9	.. ....	...
4.4	Br.	I	3 31 27.85	+0.13	.....	....	S.	+19 41 29.0	+1.7	.. ....	...
5.5	Hh.	I	4 35 35.56	+0.16	.....	....	S.	+21 14 10.2	+1.0	.. ....	...
8.6	Br.	II	7 38 45.40	+0.16	.....	....	S.	+17 18 25.4	+1.6	.. ....	...
9.6	Br.	II	8 33 5.24	+0.20	.....	....	S.	+13 51 48.2	+1.9	.. ....	...
10.7	Hh.	II	9 24 0.36	+0.01	.....	....	S.	+ 9 50 25.9	+1.4	.. ....	...
11.7	Br.	II	10 12 15.18	+0.15	.....	....	S.	+ 5 29 14.6	+2.5	.. ....	...
13.8	Br.	II	11 44 23.51	+0.10	.....	....	S.	− 3 27 41.8	0.0	.. ....	...
14.8	Hh.	II	12 30 9.91	−0.08	.....	....	S.	− 7 45 26.0	−0.1	.. ....	...
15.8	B.	II	13 16 55.30	+0.16	.....	....	S.	−11 44 53.1	+0.5	.. ....	...
16.8	Hh.	II	14 5 23.68	+0.05	.....	....	S.	−15 16 54.0	+1.4	.. ....	...
17.9	B.	II	14 56 8.36	+0.02	.....	....	.	−18 11	...	.. ....	...
26.2	Hh.	I	22 23 44.98	+0.24	.....	....	.	− 4 28	...	.. ....	...
27.2	S.	I	23 17 45.24	+0.34	.....	....	S.	+ 0 47 18.9	+1.0	.. ....	...
28.2	K.	I	0 12 14.53	+0.30	.....	....	S.	+ 6 1 57.6	+1.1	.. ....	...
29.3	B.	I	1 8 3.55	+0.26	.....	....	S.	+10 57 29.4	−0.2	.. ....	...
1901											
Jan. 1.4	B.	I	4 7 42.36	+0.44	.....	....	S.	+20 42 25.7	+0.5	.. ....	...
2.4	Hh.	I	5 10 12.97	+0.39	.....	....	S.	+21 25 32.1	+3.3	.. ....	...
3.5	Br.	I	6 11 53.70	+0.25	.....	....	S.	+20 43 2.2	+1.0	.. ....	...
4.5	Hh.	II	7 11 19.98	+0.20	.....	....	S.	+18 43 3.5	+2.4	.. ....	...
5.5	B.	II	8 7 40.08	+0.21	....	....	S.	+15 40 19.9	+0.5	.. ....	...
6.6	Br.	II	9 0 43.10	+0.22	.....	....	S.	+11 52 30.6	+1.1	.. ....	...
7.6	Hh.	II	9 50 50.68	+0.14	.....	....	S.	+ 7 36 25.4	+2.7	.. ....	...
8.6	B.	II	10 38 44.30	+0.20	.....	....	S.	+ 3 6 27.8	+2.5	.. ....	...
9.7	Hh.	II	11 25 13.74	−0.06	.....	....	S.	− 1 25 37.1	+0.9	.. ....	...
12.8	B.	II	13 44 59.26	+0.07	.....	....	S.	−13 42 35.0	−2.0	.. ....	...
13.8	Br.	II	14 34 16.96	+0.13	.....	....	S.	−16 53 11.8	−1.2	.. ....	...
15.9	Hh.	II	16 19 58.82	−0.03	.....	....	.	−20 53	...	.. ....	...
28.3	Hh.	I	3 47 44.13	+0.54	.....	....	S.	+19 59 29.7	+0.1	.. ....	...
29.3	B.	I	4 48 38.16	+0.41	.....	....	S.	+21 11 30.3	+0.2	.. ....	...
31.4	Br.	I	6 48 11.90	+0.32	.....	....	.	+19 35 14.0	−0.6	15 38.2	+0.4
Feb. 1.5	B.	I	7 44 48.84	+0.14	.....	....	.	+17 1	...	.. ....	...
4.6	Hh.	II	10 18 42.02	+0.20	.....	....	S.	+ 5 10 25.9	+1.5	.. ....	...
5.6	Br.	II	11 6 0.82	+0.23	.....	....	S.	+ 0 38 38.0	+1.1	.. ....	...
6.6	Hh.	II	11 52 27.87	+0.15	.....	....	S.	− 3 50 8.2	−1.0	.. ....	...
9.7	Br.	II	14 13 58.93	+0.16	.....	....	S.	−15 24 11.9	−1.7	.. ....	...
10.7	Hd.	II	15 3 59.73	+0.03	.....	....	S.	−18 9 0.7	−0.4	.. ....	...
12.8	Br.	II	16 50 26.16	+0.22	.....	....	S.	−21 4 10.6	−1.2	.. ....	...
24.2	Hd.	I	3 29 29.86	+0.53	.....	....	S.	+19 5 53.8	+2.6	.. ....	...
25.3	Hh.	I	4 30 38.68	+0.48	.....	....	S.	+20 43 10.7	+1.3	.. ....	...
27.3	Hd.	I	6 30 3.65	+0.37	.....	....	N.	+19 57 54.1	+0.5	.. ..	...
28.4	Hh.	I	7 26 35.50	+0.41	.....	....	N.	+17 48 52.3	−0.1	.. ....	...
Mar. 1.4	K.	I	8 20 26.83	+0.36	.....	....	N.	+14 45 5.9	−0.4	.. ....	...
5.5	Hd.	II	11 35 4.18	+0.13	.....	....	S.	− 2 3 5.7	+2.2	.. ....	...
6.6	Br.	II	12 21 27.73	+0.07	.....	....	S.	− 6 22 33.7	−1.7	.. ....	...
7.6	Hd.	II	13 8 14.24	+0.07	.....	....	S.	−10 24 6.9	−2.2	.. ....	...
11.7	Hh.	II	16 28 27.04	+0.11	.....	....	S.	−20 31 58.9	−2.0	.. ...	...
17.9	Hh.	II	22 5 0.70	+0.06	.....	....	.	− 6 23	...	.. ....	...
22.1	K.	I	2 2 20.59	+0.16	.....	....	.	+14 20	...	.. ....	...
24.2	B.	I	4 8 20.90	+0.37	.....	....	S.	+20 2 47.6	+1.8	.. ....	...
28.3	La.	I	8 4 12.57	+0.33	.....	....	N.	+15 34 21.6	+0.2	.. ....	...

MOON—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1901			h m s	s	s	s		° ′ ″	″	′ ″	″
Apr. 1.4	La.	I	11 19 29.30	+0.34	.....	....	N.	− 0 36 3.1	−1.6	.. ....	...
4.5	La.	II	13 39 35.83	+0.15	.....	....	S.	−12 43 34.1	−1.4	.. ....	...
9.7	B.	II	17 57 31.71	+0.14	.....	....	N.	−20 20 13.6	−2.0	.. ....	...
10.7	Br.	II	18 52 13.46	+0.22	.....	....	N.	−18 54 59.8	−1.4	.. ....	...
11.8	La.	II	19 47 7.59	+0.06	.....	....	.	−16 26	...	.. ....	...
15.9	B.	II	23 29 52.91	+0.19	.....	....	.	+ 1 38	...	.. ....	...
26.3	B.	I	9 29 34.19	+0.49	.....	....	N.	+ 9 16 26.1	−1.4	.. ....	...
27.3	Br.	I	10 17 50.07	+0.28	.....	....	N.	+ 5 3 51.9	−0.3	.. ....	...
28.4	B.	I	11 4 35.88	+0.22	.....	....	N.	+ 0 43 0.0	−1.7	.. ....	...
29.4	La.	I	11 50 42.00	+0.27	.....	....	N.	− 3 36 22.2	−0.9	.. ....	...
30.4	B.	I	12 36 54.35	+0.19	.....	....	.	− 7 45	...	.. ....	...
May 3.5	B.	II	15 1 58.75	+0.16	.....	....	S.	−17 37 10.1	0.0	.. ....	...
4.5	Br.	II	15 53 27.86	+0.08	.....	....	S.	−19 31 52.1	0.0	.. ....	...
5.6	B.	II	16 46 22.34	+0.12	.....	....	S.	−20 31 13.2	+0.8	.. ....	...
6.6	La.	II	17 40 14.54	+0.01	.....	....	N.	−20 29 45.3	−0.8	.. ....	...
11.8	Br.	II	22 9 46.72	−0.10	.....	....	N.	− 5 45 56.6	+0.1	.. ....	...
13.9	B.	II	0 0 4.76	+0.20	.....	....	.	+ 4 29	...	.. ....	...
23.2	La.	I	9 10 16.67	+0.32	.....	....	N.	+10 48 22.6	−1.5	.. ....	...
28.4	B.	I	13 7 45.17	+0.17	.....	....	N.	−10 19 27.8	−1.6	.. ....	...
29.4	Br.	I	13 55 29.22	+0.06	.....	....	N.	−13 50 36.5	+0.9	.. ....	...
30.4	La.	I	14 44 47.64	+0.18	.....	....	N.	−16 47 4.1	+0.3	.. ....	...
31.5	B.	I	15 35 53.39	+0.29	.....	....	N.	−18 59 26.8	−0.9	.. ....	...
June 3.6	La.	II	18 17 26.00	+0.07	.....	....	N.	−19 53 52.6	−2.2	.. ....	...
4.6	B.	II	19 12 5.46	−0.02	.....	....	N.	−18 5 52.5	−1.6	.. ....	...
5.6	Br.	II	20 6 12.82	−0.13	.....	....	N.	−15 18 42.9	+0.2	.. ....	...
8.7	Br.	II	22 45 29.77	−0.31	.....	....	N.	− 2 32 57.2	−1.0	.. ....	...
9.8	B.	II	23 39 13.55	−0.06	.....	....	N.	+ 2 29 42.8	−2.1	.. ....	...
10.8	Br.	II	0 34 35.67	−0.14	.....	....	N.	+ 7 30 40.4	+0.6	.. ....	...
11.8	Br.	II	1 32 24.22	−0.21	.....	....	N.	+12 10 35.1	+1.9	.. ....	...
18.1	B.	I	7 50 13.88	+0.30	.....	....	.	+16 16	...	.. ....	...
21.2	B.	I	10 28 57.17	+0.36	.....	....	N.	+ 4 8 38.2	−1.8	.. ....	...
23.2	B.	I	12 3 41.46	+0.19	.....	....	N.	− 4 41 23.6	+0.2	.. ....	...
24.3	Y.	I	12 50 24.43	+0.26	.....	....	N.	− 8 47 39.9	−0.8	.. ....	...
25.3	B.	I	13 37 45.80	+0.23	.....	....	N.	−12 30 28.3	−1.6	.. ....	...
26.3	Br.	I	14 26 24.01	+0.18	.....	....	N.	−15 41 33.1	+0.4	.. ....	...
27.4	Y.	.	15 16	....	.....	....	N.	−18 12 17.9	−0.8	.. ....	...
28.4	B.	I	16 8 56.94	−0.03	.....	....	N.	−19 53 42.8	−0.5	.. ....	...
29.4	Br.	I	17 2 48.59	−0.01	.....	....	.	−20 37	...	.. ....	...
30.5	B.	I	17 57 48.69	+0.22	.....	....	S.	−20 18 9.4	−1.8	.. ....	...
July 1.5	Y.	II	18 53 14.08	0.00	.....	....	N.	−18 53 2.5	−1.9	.. ....	...
2.5	B.	II	19 48 24.49	−0.04	.....	....	N.	−16 24 50.5	−1.3	.. ....	...
3.6	Br.	II	20 42 53.18	−0.24	.....	....	N.	−13 0 38.9	+0.5	.. ....	...
5.6	B.	II	22 29 49.06	−0.21	.....	....	N.	− 4 9 54.7	−2.5	.. ....	...
10.8	Y.	II	3 11 46.49	−0.22	.....	....	N.	+17 54 46.7	+0.7	.. ....	...
20.2	Br.	I	11 44 25.13	+0.19	.....	....	N.	− 2 42 4.9	−0.3	.. ....	...
21.2	B.	I	12 31 39.54	+0.21	.....	....	N.	− 6 58 9.6	−1.8	.. ....	...
23.3	B.	I	14 7 8.63	+0.20	.....	....	.	−14 18	...	.. ....	...
28.4	B.	I	18 30 37.17	+0.24	.....	....	N.	−19 32 14.0	−2.0	.. ....	...
29.5	Y.	I	19 26 24.57	+0.19	.....	....	N.	−17 30 44.8	+0.7	.. ....	...
31.5	Br.	II	21 17 3.19	−0.14	.....	....	N.	−10 32 31.0	+1.9	.. ....	...
Aug. 1.6	L.	II	22 11 36.81	−0.27	.....	....	N.	− 5 57 43.1	−1.3	.. ....	...
8.8	Br.	II	4 56 15.17	−0.01	.....	....	.	+20 22	...	.. ....	...
9.9	Y.	II	5 58 10.58	+0.01	.....	....	.	+20 8	...	.. ....	...
20.2	B.	I	14 36 41.57	+0.37	.....	....	N.	−15 48 43.8	−1.3	.. ....	...
21.2	Y.	I	15 26 52.99	+0.37	.....	....	N.	−18 10 21.5	+0.2	.. ....	...
22.3	Br.	I	16 18 34.42	+0.22	.....	....	N.	−19 42 37.0	−0.2	.. ....	...
26.4	Br.	I	19 56 47.16	+0.21	.....	....	.	−15 52	...	.. ....	...
27.4	B.	I	20 52 19.63	+0.10	.....	....	S.	−12 21 33.6	+0.3	.. ....	...
28.5	Y.	I	21 47 48.01	+0.16	.....	....	S.	− 8 2 46.3	+1.1	.. ....	...
29.5	Br.	II	22 43 21.35	−0.10	.....	....	N.	− 3 9 55.8	+1.4	.. ....	...

MOON—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1901			h m s	s	s	s		° ′ ″	″	′ ″	″
Aug. 31.6	L.	II	0 36 20.50	−0.09	.....	....	N.	+ 7 3 43.9	+0.8	.. ....	...
Sept. 1.6	L.	II	1 34 40.76	−0.13	.....	....	N.	+11 42 36.5	−0.7	.. ....	...
3.7	B.	II	3 35 53.72	+0.02	.....	....	N.	+18 23 37.3	+0.7	.. ....	...
4.7	L.	II	4 37 53.84	−0.07	.....	....	N.	+19 56 2.7	+0.2	.. ....	...
5.8	Y.	II	5 39 34.42	−0.11	.....	....	N.	+20 7 36.8	+2.0	.. ....	...
7.9	L.	II	7 37 49.62	−0.02	.....	....	.	+16 46	...	.. ....	...
21.3	Y.	I	18 36 52.21	+0.27	.....	....	S.	−18 58 54.7	+1.1	.. ....	...
22.3	L.	I	19 31 5.28	+0.29	.....	....	S.	−16 58 43.1	+0.3	.. ....	...
23.3	Y.	I	20 25 35.74	+0.34	.....	....	S.	−14 0 4.5	−0.2	.. ....	...
24.4	B.	I	21 20 22.42	+0.16	.....	....	S.	−10 8 51.5	+1.7	.. ....	...
25.4	L.	I	22 15 37.31	+0.10	.....	....	S.	− 5 35 5.1	+0.8	.. ....	...
26.5	Y.	I	23 11 43.14	+0.19	.....	....	S.	− 0 33 3.0	+2.9	.. ....	...
27.5	B.	I	0 9 8.61	+0.10	.....	....	N.	+ 4 38 14.8	+0.6	.. ....	...
30.6	Y.	II	3 12 24.56	−0.13	.....	....	N.	+17 17 33.1	+0.8	.. ....	...
Oct. 2.7	L.	.	5 19	....	.....	....	N.	+20 0 42.2	+0.8	.. ....	...
3.7	Br.	.	6 21	....	.....	....	S.	+19 17 40.5	+0.2	.. ....	...
4.8	B.	II	7 20 33.15	+0.01	.....	....	S.	+17 22 26.6	+1.9	.. ....	...
5.8	L.	II	8 16 36.78	+0.03	.....	....	S.	+14 29 21.3	+1.4	.. ....	...
6.8	Br.	II	9 9 44.45	+0.04	.....	....	S.	+10 53 56.0	0.0	.. ....	...
7.9	B.	II	10 0 25.36	+0.14	.....	....	.	+ 6 50	...	.. ....	...
15.1	B.	I	15 39 59.28	+0.22	.....	....	.	−18 18	...	.. ....	...
16.1	L.	I	16 31 20.67	+0.09	.....	....	.	−19 34	...	.. ....	...
18.2	B.	I	18 16 11.16	+0.35	.....	....	S.	−19 20 8.2	+1.3	.. ....	...
19.2	Br.	I	19 9 4.15	+0.26	.....	....	S.	−17 45 58.3	−0.2	.. ....	...
20.3	S.	I	20 2 0.45	+0.14	.....	....	S.	−15 15 48.0	−0.5	.. ....	...
21.3	Br.	I	20 55 2.78	+0.12	.....	....	S.	−11 53 57.2	+0.9	.. ....	...
22.3	B.	I	21 48 27.55	+0.14	.....	....	S.	− 7 47 19.5	+1.3	.. ....	...
24.4	Br.	I	23 38 30.05	+0.09	.....	....	S.	+ 1 56 33.6	+2.9	.. ....	...
25.4	B.	I	0 36 26.20	+0.17	.....	....	S.	+ 7 1 17.2	+3.0	.. ....	...
SIX-INCH TRANSIT CIRCLE.											
26.5	L.	I	1 37 2.56	+0.28	.....	....	S.	+11 45 5.6	+0.9	.. ....	...
27.5	S.	II	2 40 22.69	+0.04	.....	....	N.	+15 42 16.4	+0.3	.. ....	...
29.6	B.	II	4 51 55.43	+0.27	.....	....	.	+19 49	...	.. ....	...
30.6	L.	II	5 56 54.40	+0.18	.....	....	S.	+19 38 54.4	−0.9	.. ....	...
Nov. 1.7	B.	II	7 57 53.05	+0.20	.....	....	S.	+15 28 7.2	+1.0	.. ....	...
2.8	L.	II	8 52 55.67	+0.17	.....	....	S.	+12 1 40.0	−0.7	.. ....	...
3.8	S.	II	9 44 47.62	+0.01	.....	....	S.	+ 8 4 18.2	+1.7	.. ....	...
5.8	L.	II	11 22 9.95	+0.16	.....	....	.	− 0 28	...	.. ....	...
6.9	Y.	II	12 9 20.83	+0.15	.....	....	.	− 4 42	...	.. ....	...
19.3	Br.	I	22 19 6.63	+0.13	.....	....	S.	− 5 11 9.5	+1.8	.. ....	...
20.3	L.	I	23 12 8.09	+0.13	.....	....	S.	− 0 26 56.9	+3.8	.. ....	...
21.3	Y.	I	0 6 59.29	+0.16	.....	....	S.	+ 4 28 43.1	+3.7	.. ....	...
22.4	Br.	I	1 4 30.03	+0.25	.....	....	S.	+ 9 18 9.3	+3.0	.. ....	...
26.5	Br.	II	5 23 11.96	+0.27	.....	....	S.	+19 56 22.8	−2.4	.. ....	...
28.6	Y.	II	7 31 47.47	+0.09	.....	....	S.	+16 49 15.0	+4.2	.. ....	...
Dec. 1.7	S.	II	10 16 54.89	+0.09	.....	....	.	+ 5 25	...	.. ....	...
3.8	Br.	II	11 53 52.23	+0.09	.....	....	S.	− 3 16 35.9	−2.6	.. ....	...
4.8	L.	II	12 41 5.80	+0.15	.....	....	S.	− 7 22 8.2	−0.7	.. ....	...
5.9	L.	II	13 28 32.62	+0.16	.....	....	.	−11 6	...	.. ....	...
6.9	B.	II	14 16 48.43	−0.02	.....	....	.	−14 20	...	.. ....	...
15.1	S.	I	21 10 54.91	+0.22	.....	....	.	−10 52	...	.. ....	...
17.2	L.	I	22 53 23.20	+0.12	.....	....	S.	− 2 17 39.9	+1.5	.. ....	...
18.2	B.	I	23 45 43.82	+0.14	.....	....	S.	+ 2 26 19.9	+1.7	.. ....	...
19.3	Br.	I	0 39 56.46	+0.14	.....	....	S.	+ 7 10 16.2	+2.4	.. ....	...
20.3	L.	I	1 36 52.03	+0.21	.....	....	S.	+11 37 5.0	+1.2	.. ....	...
22.4	S.	I	3 40 37.84	+0.36	.....	....	S.	+18 16 13.2	+3.3	.. ....	...
24.5	B.	I	5 53 14.69	+0.46	.....	....	S.	+19 45 17.6	+2.0	.. ....	...
25.5	Br.	II	6 58 30.81	+0.27	.....	....	S.	+18 14 40.1	+2.6	.. ....	...
27.6	Br.	II	8 59 14.06	+0.14	.....	....	S.	+11 47 2.5	−0.6	.. ....	...
30.7	Br.	II	11 35 17.95	+0.18	.....	....	S.	− 1 24 9.3	−0.6	.. ....	...

MOON—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1901			h m s	s	s	s		° ′ ″	″	′ ″	″
Dec. 31.7	L.	II	12 23 33.97	+0.17	.....	....	S.	− 5 40 53.1	−2.2	.. ....	...
1902											
Jan. 3.8	L.	II	14 48 32.96	+0.26	.....	....	S.	−15 58 8.9	−1.3	.. ....	...
4.9	S.	II	15 38 45.31	+0.09	.....	....	.	−18 8	...	.. ....	...
13.1	Br.	I	22 38 16.42	+0.21	.....	....	.	− 3 52	...	.. ....	...
14.2	B.	I	23 30 8.24	+0.22	.....	....	S.	+ 0 47 9.9	+3.0	.. ....	...
15.2	L.	I	0 23 0.94	+0.29	.....	....	S.	+ 5 28 32.0	+3.1	.. ....	...
17.3	B.	I	2 14 49.35	+0.36	.....	....	S.	+13 54 55.9	+2.1	.. ....	...
19.3	S.	I	4 17 23.80	+0.58	.....	....	S.	+19 8 9.1	+1.6	.. ....	...
20.4	Br.	I	5 21 41.48	+0.52	.....	....	S.	+19 51 10.5	−0.1	.. ....	...
23.5	Br.	II	8 29 30.95	+0.41	.....	....	S.	+13 51 53.5	−1.7	.. ....	...
27.6	Br.	II	12 2 29.66	+0.32	.....	....	S.	− 3 34 11.8	+0.9	.. ....	...
Feb. 2.8	Br.	II	17 1 50.86	+0.20	.....	....	.	−19 40	...	.. ....	...
10.1	Br.	I	23 13 13.90	+0.34	.....	....	.	− 0 55	...	.. ....	...
13.2	Br.	I	1 57 58.63	+0.30	.....	....	S.	+12 33 24.3	+1.9	.. ....	...
14.2	B.	I	2 56 35.03	+0.47	.....	....	S.	+15 57 41.3	+1.7	.. ....	...
17.3	Br.	I	6 1 52.44	+0.58	.....	....	S.	+19 23 10.5	−0.4	.. ....	...
18.4	B.	I	7 3 36.33	+0.47	.....	....	N.	+17 55 26.1	+0.7	.. ....	...
19.4	L.	I	8 3 29.43	+0.38	.....	....	N.	+15 18 6.1	+0.3	.. ....	...
26.7	L.	II	14 8 26.70	+0.29	.....	....	S.	−13 7 39.4	−3.6	.. ....	...
28.7	B.	II	15 48 55.27	+0.24	.....	....	S.	−17 58 44.6	−1.2	.. ....	...
Mar. 5.9	Br.	II	20 10 48.79	+0.14	.....	....	.	−14 49	...	.. ....	...
6.9	Br.	II	21 3 50.96	+0.08	.....	....	.	−11 30	...	.. ....	...
13.1	Br.	I	2 37 31.24	+0.29	.....	....	.	+14 45	...	.. ....	...
14.2	Br.	I	3 38 38.25	+0.39	.....	....	.	+17 31	...	.. ....	...
19.4	L.	I	8 40 52.69	+0.40	.....	....	N.	+12 58 35.1	+0.7	.. ....	...
20.4	Br.	I	9 35 26.41	+0.39	.....	....	N.	+ 9 8 54.5	−2.6	.. ....	...
21.4	B.	I	10 27 55.28	+0.45	.....	....	N.	+ 4 54 0.8	−2.1	.. ....	...
22.5	L.	I	11 18 50.37	+0.36	.....	....	.	+ 0 28 51.8	−0.9	15 23.2	−0.3
23.5	S.	.	12 8 46.86	+0.33	63.21	−0.04	S.	− 3 52 51.9	−1.2	.. ....	...
24.5	Br.	II	12 58 18.04	+0.28	.....	....	S.	− 7 58 57.6	−2.1	.. ....	...
25.6	B.	II	13 47 52.02	+0.20	.....	....	S.	−11 38 46.8	−2.3	.. ....	...
29.7	L.	II	17 11 7.59	+0.22	.....	....	S.	−19 18 54.4	−0.2	.. ....	...
31.8	Br.	II	18 55 8.33	+0.12	.....	....	.	−17 55	...	.. ....	...
Apr. 12.2	Br.	I	5 22 8.89	+0.45	.....	....	.	+19 18	...	.. ....	...
15.3	S.	I	8 23 58.27	+0.48	.....	....	N.	+13 54 5.9	−1.0	.. ....	...
17.4	Br.	I	10 11 23.10	+0.40	.....	....	N.	+ 6 12 37.4	−1.1	.. ....	...
18.4	S.	I	11 1 59.82	+0.50	.....	....	N	+ 1 54 12.1	−3.2	.. ....	...
19.4	Br.	I	11 51 27.89	+0.35	.....	....	N.	− 2 25 3.0	−2.6	.. ....	...
20.4	L.	I	12 40 27.53	+0.32	.....	....	N.	− 6 33 40.9	−2.9	.. ....	...
22.5	Br.	II	14 19 5.52	+0.21	.....	....	S.	−13 37 56.9	−1.1	.. ....	...
23.5	L.	II	15 9 20.96	+0.26	.....	....	S.	−16 15 34.3	+1.2	.. ....	...
24.6	Br.	II	16 0 18.82	+0.15	.....	....	S.	−18 7 9.4	−1.1	.. ....	...
26.6	L.	II	17 43 34.83	+0.24	.....	....	N.	−19 13 53.8	+0.6	.. ....	...
27.7	L.	II	18 35 17.27	+0.28	.....	....	N.	−18 25 51.3	−0.4	.. ...	...
29.7	S.	II	20 17 50.48	+0.02	.....	....	N.	−14 14 52.4	−0.9	. ....	...
30.8	L.	II	21 8 49.01	+0.03	.....	....	N.	−11 0 19.8	+0.2	.. ....	...
May 1.8	Br.	II	22 0 1.86	−0.06	.....	....	.	− 7 7	...	.. ....	...
4.9	Br.	II	0 41 26.32	0.00	.....	....	.	+ 6 38	...	.. ....	...
10.1	S.	I	5 59 11.67	+0.40	.....	....	.	+19 6	...	.. ....	...
15.3	Br.	I	10 46 43.70	+0.39	.....	....	N.	+ 3 14 55.0	−0.9	.. ....	...
17.4	S.	I	12 25 9.81	+0.37	.....	....	N.	− 5 16 48.9	−4.6	.. ....	...
18.4	L.	I	13 13 44.19	+0.39	.....	....	N.	− 9 10 23.4	−3.0	.. ....	...
19.4	Br.	I	14 2 40.99	+0.34	.....	....	N.	−12 36 52.0	−0.9	.. ....	...
21.5	R.	I	15 42 55.09	+0.15	.....	....	N.	−17 35 54.9	+0.1	.. ....	...
22.5	Br.	II	16 34 13.72	+0.21	.....	....	N.	−18 54 51.4	−1.6	.. ....	...
25.6	R.	II	19 9 15.39	+0.10	.....	....	N.	−17 29 19.4	+1.4	.. ....	...
27.7	L.	.	20 50	....	.....	....	N.	−12 20 20.8	+1.3	.. ....	...
28.7	S.	II	21 40 38.59	−0.18	.....	....	N.	− 8 45 35.7	−2.5	.. ....	...
29.8	Br.	II	22 30 58.96	+0.01	.....	....	N.	− 4 40 21.4	−0.6	.. ....	...

MOON—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sld. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1902			h m s	s	s	s		° ′ ″	″	′ ″	″
June 1.9	Br.	II	1 10 57.01	−0.03	.....	....	.	+ 8 54	...	.. ....	...
9.1	Br.	I	8 37 52.13	+0.19	.....	....	N.	+13 12 16.9	−1.5	.. ....	...
10.2	L.	I	9 34 59.71	+0.31	.....	....	N.	+ 9 15 23.4	−3.5	.. ....	...
12.2	Br.	I	11 20 1.65	+0.32	.....	....	N.	+ 0 29 52.8	−2.4	.. ....	...
14.3	S.	I	12 58 28.29	+0.42	.....	....	N.	− 7 52 3.2	−3.3	.. ....	...
17.4	L.	I	15 26 32.74	+0.12	.....	....	N.	−16 56 53.3	−1.6	.. ....	...
18.4	S.	I	16 17 28.59	+0.19	.....	....	.	−18 33	...	.. ....	...
19.5	R.	I	17 9 5.91	+0.20	.....	....	N.	−19 19 12.0	−3.2	.. ....	...
21.5	S.	II	18 52 52.17	+0.14	.....	....	N.	−18 6 24.9	−2.4	.. ....	...
23.6	R.	II	20 34 51.61	−0.02	.....	....	N.	−13 28 57.3	+0.1	.. ....	...
24.6	L.	II	21 24 54.51	−0.07	....	....	N.	−10 7 19.1	−2.0	.. ....	...
July 9.2	S.	I	10 59 12.08	+0.27	.....	....	.	+ 2 32	...	.. ....	...
11.2	L.	I	12 40 53.98	+0.24	.....	....	N.	− 6 12 42.9	−3.4	.. ....	...
12.3	S.	I	13 30 21.21	+0.31	.....	....	N.	−10 3 53.7	−3.8	.. ....	...
13.3	Br.	I	14 19 47.40	+0.30	.....	....	N.	−13 22 51.8	−0.3	.. ....	...
14.3	R.	I	15 9 40.90	+0.17	....	....	N.	−16 2 59.5	−0.4	.. ....	...
15.4	L.	I	16 0 17.30	+0.23	.....	....	N.	−17 58 16.2	−1.4	.. ....	...
16.4	S.	I	16 51 37.37	+0.23	.....	....	N.	−19 3 41.8	−3.5	.. ....	...
17.4	R.	I	17 43 29.13	+0.27	.....	....	N.	−19 15 38.4	−0.5	.. ....	...
21.6	R.	II	21 9 24.30	−0.09	.....	....	N.	−11 21 37.7	+1.5	.. ....	...
22.6	Br.	II	21 59 39.59	−0.06	.....	....	N.	− 7 37 48.9	+1.2	.. ....	...
23.6	S.	II	22 49 48.23	−0.03	.....	....	N.	− 3 28 54.6	−0.5	.. ....	...
24.6	R.	II	23 40 23.54	0.00	.....	....	N.	+ 0 54 19.3	−0.1	.. ....	...
Aug. 9.2	Br.	I	14 0 32.16	+0.28	.....	....	N.	−11 53 54.3	−0.8	.. ....	...
11.3	R.	I	15 41 30.24	+0.24	.....	....	N.	−17 6 57.0	−0.3	.. ....	...
16.4	Br.	I	19 59 52.69	+0.28	....	....	S.	−15 26 34.1	0.0	.. ....	...
17.5	L.	I	20 51 13.78	+0.16	.....	....	.	−12 34 4.6	+0.4	15 9.0	+1.2
18.5	R.	I	21 42 15.10	+0.13	.....	....	N.	− 9 2 5.7	−1.0	.. ....	...
19.5	L.	II	22 33 9.74	+0.07	.....	....	N.	− 4 59 53.6	−0.2	.. ....	...
22.6	L.	II	1 9 45.53	−0.03	.....	....	N.	+ 8 8 9.3	0.0	.. ....	...
23.7	Br.	II	2 5 6.43	−0.18	.....	....	N.	+12 4 9.9	−0.9	.. ....	...
24.7	L.	II	3 2 47.38	−0.03	... .	....	N.	+15 20 36.2	+0.3	.. ....	...
25.7	L.	II	4 2 50.03	+0.10	.....	....	N.	+17 41 30.8	−0.8	.. ....	...
26.8	Br.	II	5 4 46.99	+0.11	.....	....	N.	+18 53 20.7	−1.9	.. ....	...
27.8	L.	II	6 7 41.99	+0.25	.....	....	.	+18 47	...	.. ....	...
Sept. 5.1	S.	I	13 38 36.83	+0.38	.....	....	.	−10 11	...	.. ....	...
6.1	R.	I	14 29 38.28	+0.33	.....	....	.	−13 29	...	.. ....	...
7.2	S.	I	15 20 44.59	+0.32	.....	....	.	−16 4	...	.. ....	...
8.2	R.	I	16 12 4.63	+0.26	.....	....	N.	−17 51 30.9	+0.9	.. ....	...
10.3	S.	I	17 55 21.50	+0.43	.....	....	N.	−18 49 41.3	−1.6	.. ....	...
11.3	L.	I	18 47 2.70	+0.34	.....	....	S.	−17 58 39.9	+2.9	.. ....	...
12.3	S.	I	19 38 34.63	+0.32	.....	....	S.	−16 15 49.6	+3.3	.. ....	...
13.4	L.	I	20 29 53.90	+0.25	.....	....	S.	−13 44 32.6	+0.8	.. ....	...
14.4	L.	I	21 21 4.85	+0.16	.....	....	S.	−10 30 3.2	+2.8	.. ....	...
15.4	S.	I	22 12 20.81	+0.19	.....	....	S.	− 6 40 2.4	+1.0	.. ....	...
16.5	L.	I	23 4 2.93	+0.04	.....	....	.	− 2 24 16.3	+1.9	15 36.6	0.0
18.5	L.	II	0 50 40.06	+0.10	.....	....	N.	+ 6 32 29.3	+0.5	.. ....	...
22.7	L.	II	4 46 15.91	+0.10	.....	....	N.	+18 29 54.2	−0.6	.. ....	...
23.7	S.	II	5 48 34.14	+0.10	.....	....	N.	+18 48 4.7	−0.4	.. ....	...
Oct. 6.2	L.	I	16 42 23.47	+0.13	.....	....	.	−18 23	...	.. ....	...
7.2	S.	I	17 34 7.87	+0.35	.....	....	.	−18 48	...	.. ....	...
9.3	L.	I	19 16 48.60	+0.25	.....	....	S.	−16 59 6.1	+2.1	.. ....	...
10.3	S.	I	20 7 36.19	+0.27	.....	....	S.	−14 50 14.1	+0.2	.. ....	...
12.4	S.	I	21 48 46.69	+0.31	.....	....	S.	− 8 25 28.8	+2.0	.. ....	...
13.4	L.	I	22 39 53.35	+0.14	.....	....	S.	− 4 22 56.2	+2.4	.. ....	...
14.4	S.	I	23 32 2.85	+0.14	.....	....	S.	+ 0 0 36.9	+2.7	.. ....	...
15.5	R.	I	0 25 50.86	+0.12	.....	....	S.	+ 4 32 13.0	+3.0	.. ....	...
16.5	L.	I	1 21 50.39	+0.04	.....	....	.	+ 8 55 30.6	+0.2	16 7.8	−1.5
18.6	L.	II	3 21 26.23	−0.04	.....	....	N.	+15 59 43.6	0.0	.. ....	...
19.6	Br.	II	4 24 26.01	+0.04	.....	....	N.	+18 2 24.7	+0.1	.. ....	...

MOON—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1902			h m s	s	s	s		° ′ ″	″	′ ″	″
Oct. 20.6	R.	II	5 28 14.89	+0.04	.....	....	.	+18 47 36.5	−0.1	16 20.6	−0.1
21.7	Br.	II	6 31 30.01	+0.06	.....	....	S.	+18 12 23.0	−0.6	.. ....	...
22.7	R.	II	7 32 58.33	+0.12	.....	....	S.	+16 22 53.2	−0.4	.. ....	...
24.8	R.	II	9 28 17.61	−0.05	.....	....	S.	+ 9 54 58.4	+0.5	.. ....	...
27.9	Br.	II	12 5 51.36	+0.10	.....	....	.	− 2 52	...	.. ....	...
Nov. 7.2	Br.	I	20 36 56.72	+0.32	.....	....	S.	−13 16 44.5	−1.1	.. ....	...
9.3	Br.	I	22 16 12.00	+0.13	.....	....	S.	− 6 20 17.3	+1.3	.. ....	...
12.4	R.	I	0 52 53.98	+0.22	.....	....	S.	+ 6 41 56.0	+3.7	.. ....	...
13.4	L.	I	1 50 6.11	+0.22	.....	....	S.	+10 55 5.8	+2.3	.. ....	...
14.5	Br.	I	2 50 36.78	+0.25	.....	....	S.	+14 33 21.4	+1.9	.. ....	...
15.5	R.	II	3 54 11.97	+0.15	.....	....	S.	+17 14 38.8	+1.1	.. ....	...
16.6	Br.	II	4 59 50.84	+0.11	.....	....	S.	+18 40 7.7	−1.6	.. ....	...
19.7	R.	II	8 12 18.77	0.00	.....	....	S.	+14 40 46.2	+0.5	.. ....	...
21.8	Br.	II	10 6 16.39	+0.06	.....	....	S.	+ 7 10 38.6	+1.8	.. ....	...
22.8	R.	II	10 59 10.98	−0.04	.....	....	S.	+ 2 51 47.7	+1.5	.. ....	...
Dec. 3.1	R.	I	19 29 5.88	+0.12	.....	....	.	−16 41	...	.. ....	...
5.2	Br.	I	21 8 3.47	+0.27	.....	....	S.	−11 30 34.2	−1.1	.. ....	...
8.3	L.	I	23 35 16.31	+0.12	.....	....	S.	+ 0 4 46.2	+1.9	.. ....	...
9.3	Br.	I	0 26 40.87	+0.20	.....	....	S.	+ 4 25 27.3	+2.9	.. ....	...
10.3	R.	I	1 20 41.09	+0.27	.....	....	S.	+ 8 41 48.4	+1.8	.. ....	...
14.5	Br.	.	5 30 54.23	+0.34	74.17	−0.03	S.	+18 53 56.9	+0.9	.. ....	...
17.6	R.	II	8 46 26.51	+0.20	.....	....	S.	+12 57 5.5	−3.0	.. ....	...
18.7	L.	II	9 45 22.10	+0.13	.....	....	S.	+ 8 58 53.4	−0.1	.. ....	...
21.8	Br.	II	12 25 11.38	−0.01	.....	....	S.	− 4 12 11.3	−3.1	.. ....	...
22.8	R.	II	13 15 29.42	−0.06	.....	....	S.	− 8 12 58.6	−0.8	.. ....	...
23.8	R.	II	14 5 33.21	−0.02	.....	....	.	−11 45	...	.. ....	...
1903											
Jan. 6.2	Br.	I	0 58 29.79	+0.14	.....	....	S.	+ 6 43 29.5	+3.6	.. ....	...
9.4	Br.	I	3 50 8.61	+0.48	.....	....	S.	+16 55 27.8	+1.0	.. ....	...
10.4	R.	I	4 54 21.94	+0.49	.....	....	S.	+18 31 44.4	+0.5	.. ....	...
11.4	Br.	I	6 0 51.11	+0.56	.....	....	S.	+18 45 35.9	+1.4	.. ....	...
12.5	L.	I	7 7 45.29	+0.46	.....	....	S.	+17 30 56.1	+0.7	.. ....	...
13.5	Br.	II	8 13 9.98	+0.37	.....	....	S.	+14 54 48.7	+0.2	.. ....	...
14.6	R.	.	9 15	....	.....	....	S.	+11 15 21.8	−2.4	.. ....	...
15.6	L.	II	10 15 3.71	+0.35	.....	....	S.	+ 6 56 11.4	+0.9	.. ....	...
17.7	R.	II	12 5 5.82	+0.11	.....	....	S.	− 2 13 43.3	−1.6	.. ....	...
18.7	Br.	II	12 57 13.47	+0.14	.....	....	S.	− 6 30 31.2	−2.1	.. ....	...
31.1	R.	I	23 3 16.70	+0.28	.....	....	.	− 3 7	...	.. ....	...
Feb. 4.2	L.	.	2 28	....	.....	....	S.	+12 45 26.3	0.0	.. ....	...
5.3	L.	I	3 25 53.23	+0.38	.....	....	S.	+15 43 4.5	+1.3	.. ....	...
6.3	Br.	I	4 26 15.27	+0.48	.....	....	S.	+17 46 6.4	+2.6	.. ....	...
8.4	Br.	I	6 33 55.73	+0.65	.....	....	S.	+18 12 22.5	−0.5	.. ....	...
9.4	L.	I	7 38 40.93	+0.27	.....	....	.	+16 23 35.2	−0.1	16 35.4	−0.9
10.5	Br.	I	8 42 9.26	+0.49	.....	....	S.	+13 21 48.0	−0.4	.. ....	...
11.5	R.	.	9 43 23.79	+0.38	69.66	−0.03	S.	+ 9 24 42.6	−2.1	.. ....	...
12.6	L.	II	10 42 6.39	+0.46	.....	....	S.	+ 4 54 34.0	−2.1	.. ....	...
13.6	Br.	II	11 38 28.14	+0.34	.....	....	S.	+ 0 13 34.4	−1.6	.. ....	...
Mar. 3.1	Br.	I	2 12 19.99	+0.18	.....	....	.	+11 33	...	.. ....	...
11.5	R.	I	10 13 5.52	+0.42	.....	....	N.	+ 7 11 23.6	−2.1	.. ....	...
12.5	L.	I	11 10 3.54	+0.41	.....	....	.	+ 2 38 30.2	−2.4	16 10.2	−0.2
13.5	Br.	II	12 5 32.65	+0.27	.....	....	S.	− 1 58 38.0	−2.2	.. ....	...
14.6	R.	II	12 59 56.69	+0.18	.....	....	S.	− 6 22 15.7	−3.7	.. ....	...
17.7	Br.	II	15 39 53.05	+0.22	.....	....	S.	−16 2 36.5	+1.9	.. ....	...
Apr. 4.3	R.	I	6 52 28.25	+0.57	.....	....	N.	+17 36 13.6	+0.6	.. ....	...
5.3	Br.	I	7 53 23.86	+0.47	.....	....	N.	+15 37 3.2	+0.1	.. ....	...
6.3	L.	I	8 52 49.24	+0.43	.....	....	N.	+12 36 45.1	−1.8	.. ....	...
8.4	Br.	I	10 46 32.09	+0.39	.....	....	N.	+ 4 32 7.5	−2.9	.. ....	...
9.4	L.	I	11 41 18.87	+0.23	.....	....	N.	+ 0 1 39.9	−1.3	.. ....	...
10.5	Br.	I	12 35 17.48	+0.28	.....	....	N.	− 4 25 4.5	−2.4	.. ....	...
17.7	Br.	II	18 46 42.10	+0.10	.....	....	N.	−17 44 33.8	+1.0	.. ....	...

MOON—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1903			h m s	s	s	s	.	° ′ ″	″	′ ″	″
Apr. 18.7	R.	II	19 37 28.26	−0.01	.....	....	N.	−16 15 42.2	−0.6	.. ....	...
19.8	Br.	II	20 27 20.54	+0.01	.....	....	.	−14 2	...	.. ....	...
30.1	L.	I	5 29 50.76	+0.57	.....	....	.	+18 26	...	.. ....	...
May 1.2	Br.	I	6 33 2.74	+0.52	....	....	.	+18 2	...	.. ....	...
4.3	L.	I	9 33 10.54	+0.44	.....	....	N.	+10 6 4.3	−4.0	.. ....	...
5.3	Br.	I	10 28 52.83	+0.38	.....	....	N.	+ 5 59 29.3	−3.3	.. ....	...
6.4	R.	I	11 22 55.93	+0.37	.....	....	N.	+ 1 36 8.7	−2.3	.. ....	...
7.4	L.	I	12 15 56.81	+0.32	.....	....	.	− 2 48	...	.. ....	...
8.4	Br.	I	13 8 31.38	+0.27	.....	....	N.	− 7 0 39.6	−1.7	.. ....	...
9.5	R.	I	14 1 7.88	+0.31	.....	....	N.	−10 47 10.1	−2.8	.. ....	...
10.5	Br.	I	14 54 1.96	+0.28	.....	....	N.	−13 56 52.9	−1.2	.. ....	...
11.5	L.	II	15 47 14.94	+0.27	.....	....	.	−16 20 50.3	+0.8	15 7.6	−1.2
12.6	Br.	II	16 40 33.84	+0.06	.....	....	.	−17 52 52.5	−0.2	15 0.1	−1.0
13.6	R.	II	17 33 36.52	+0.01	.....	....	.	−18 29 58.6	0.0	14 54.5	−0.3
14.6	L.	II	18 25 58.28	+0.14	.....	....	N.	−18 12 30.3	−1.4	.. ....	...
15.7	Br.	II	19 17 19.55	+0.06	.....	....	N.	−17 3 26.3	+0.3	.. ....	...
16.7	R.	II	20 7 32.90	+0.03	.....	....	N.	−15 7 48.9	−0.5	.. ....	...
17.7	Br.	II	20 56 44.24	−0.18	.....	....	N.	−12 31 33.3	−1.3	.. ....	...
18.8	L.	II	21 45 13.47	−0.19	.....	....	N.	− 9 21 2.1	−1.5	.. ....	...
19.8	R.	II	22 33 31.12	−0.11	.....	....	.	− 5 42	...	.. ....	...
20.8	L.	II	23 22 16.44	+0.11	.....	....	N.	− 1 44 27.5	+0.8	.. ....	...
June 1.2	L.	I	10 12 16.30	+0.34	.....	....	N.	+ 7 27 3.9	−4.7	.. ....	...
2.3	Br.	I	11 7 8.56	+0.38	.....	....	N.	+ 3 4 55.6	−3.5	.. ....	...
3.3	R.	I	12 0 16.73	+0.40	.....	....	N.	− 1 21 17.0	−2.9	.. ....	...
4.3	L.	I	12 52 25.60	+0.38	.....	....	N.	− 5 37 35.8	−2.7	.. ....	...
8.5	L.	I	16 21 23.13	+0.23	.....	....	N.	−17 26 54.1	−2.6	.. ....	...
9.5	Br.	.	17 14 15.56	+0.14	65.14	−0.01	N.	−18 26 5.9	−1.9	.. ....	...
10.5	R.	II	18 6 49.16	+0.07	.....	....	N.	−18 30 41.4	−0.7	.. ....	...
14.7	Br.	II	21 27 26.05	−0.12	.....	....	N.	−10 47 26.8	−1.2	.. ....	...
15.7	L.	II	22 15 17.37	−0.12	.....	....	N.	− 7 21 35.9	−1.5	.. ....	...
17.8	R.	II	23 51 24.29	+0.01	.....	....	N.	+ 0 28 0.2	+2.3	.. ....	...
July 1.3	R.	I	12 36 31.51	+0.44	.....	....	N.	− 4 6 12.2	−2.1	.. ....	...
6.4	L.	I	16 57 11.89	+0.26	.....	....	N.	−18 8 59.7	−1.1	.. ....	...
7.5	Br.	I	17 49 32.61	+0.13	.....	....	N.	−18 34 10.3	−1.4	.. ....	...
8.5	R.	I	18 41 26.88	+0.32	.....	....	N.	−18 6 1.3	−1.3	.. ....	...
9.5	L.	II	19 32 31.81	+0.12	.....	....	N.	−16 47 16.6	−0.7	.. ....	...
10.6	Br.	II	20 22 33.55	+0.14	.....	....	N.	−14 42 56.7	+0.9	.. ....	...
11.6	R.	II	21 11 29.41	−0.13	.....	....	N.	−11 59 41.8	−1.0	.. ....	...
13.6	L.	II	22 47 2.43	+0.03	.....	....	N.	− 5 6 20.1	+0.2	.. ....	...
14.7	Br.	II	23 34 36.76	+0.04	.....	....	N.	− 1 12 1.8	+1.4	.. ....	...
15.7	R.	II	0 22 56.27	+0.04	.....	....	N.	+ 2 49 36.4	+1.0	.. ....	...
16.7	L.	II	1 12 48.43	−0.02	.....	....	N.	+ 6 49 13.1	−0.4	.. ....	...
19.8	L.	II	3 59 15.74	+0.18	.....	....	.	+16 31	...	.. ....	...
20.9	Br.	II	5 1 37.31	+0.20	.....	....	.	+18 7	...	.. ....	...
28.2	Br.	I	12 16 6.86	+0.30	.....	....	N.	− 2 10 15.0	−2.7	.. ....	...
Aug. 5.4	L.	I	19 16 4.86	+0.13	.....	....	.	−17 15 1.3	+0.9	14 43.1	−1.3
7.5	Br.	I	20 55 51.00	+0.13	.....	....	N.	−12 58 41.8	−0.4	.. ....	...
9.6	Br.	II	22 32 13.70	−0.16	.....	....	N.	− 6 24 35.8	−0.3	.. ....	...
11.6	Br.	II	0 7 50.72	−0.01	.....	....	N.	+ 1 22 30.5	0.0	.. ....	...
16.8	R.	II	4 34 59.63	+0.13	.....	....	N.	+17 24 22.6	+3.1	.. ....	...
25.1	Br.	•I	12 45 46.35	+0.25	.....	....	.	− 4 25	...	.. ....	...
Sept. 1.3	L.	I	18 58 40.39	+0.29	.....	....	.	−17 33 40.8	+0.7	14 44.9	−2.1
2.4	R.	I	19 49 18.54	+0.23	.....	....	S.	−16 3 45.1	+3.3	.. ....	...
3.4	L.	I	20 39 2.20	+0.23	.....	....	S.	−13 50 14.3	+0.2	.. ....	...
4.4	R.	I	21 27 56.75	+0.19	.....	....	S.	−10 59 8.5	+0.8	.. ....	...

MERCURY.

SIX-INCH TRANSIT CIRCLE.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1900			h m s	s	s	s		° ′ ″	″	″	″
Jan. 1.9	Br.	C.	17 21 42.13	−0.07	....	....	C.	−22 15 47.2	+3.3	....	...
3.9	La.	C.	17 33 12.81	−0.07	....	....	C.	−22 41 35.2	−2.2	....	...
7.9	La.	C.	17 57 21.14	+0.08	....	....	C.	−23 22 15.5	−1.6	....	...

NINE-INCH TRANSIT CIRCLE.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
Jan. 23.0	Br.	C.	19 35 54.36	+0.09	....	....	C.	−23 9 25.0	+0.1	....	...
24.0	B.	C.	19 42 44.93	+0.04	....	....	C.	−22 58 0.5	−1.1	....	...
26.0	La.	C.	19 56 29.81	+0.01	....	....	C.	−22 30 53.7	−1.0	....	...
Feb. 1.0	La.	C.	20 38 6.98	+0.03	....	....	C.	−20 34 50.6	−4.1	....	...
2.0	Br.	C.	20 45 5.64	+0.12	....	....	C.	−20 10 14.9	+1.2	....	...
3.0	B.	C.	20 52 4.65	+0.07	....	....	C.	−19 44 15.8	+0.5	....	...
5.0	La.	C.	21 6 3.97	+0.03	....	....	C.	−18 47 50.5	−2.4	....	...
14.0	B.	C.	22 9 5.42	+0.08	....	....	C.	−13 20 21.8	+0.3	....	...
15.0	La.	C.	22 16 3.52	−0.11	....	....	C.	−12 36 49.5	+1.5	....	...
27.0	Br.	C.	23 35 49.85	−0.02	....	....	C.	− 2 38 33.8	−1.3	....	...
Mar. 7.1	B.	C.	0 15 14.12	−0.19	....	....	C.	+ 3 34 20.7	−1.1	....	...
12.1	Ei.	I	0 27 11.52	−0.09	....	....	C.	+ 5 59 30.2	+0.2	....	...
Apr. 5.0	Br.	C.	23 47 22.21	+0.14	....	....	C.	− 0 55 54.5	+1.0	....	...
24.9	Ei.	II	0 33 59.33	+0.10	....	....	C.	+ 0 38 53.1	−1.4	....	...
25.9	Br.	II	0 38 19.72	−0.04	....	....	C.	+ 1 3 53.5	−1.2	....	...
26.9	Ei.	II	0 42 48.58	+0.05	....	....	C.	+ 1 30 21.4	−0.2	....	...
27.9	La.	II	0 47 25.35	+0.01	....	....	C.	+ 1 58 10.1	−1.8	....	...
May 3.9	La.	C.	1 17 47.92	−0.01	....	....	C.	+ 5 11 22.2	−1.0	....	...
14.0	Br.	C.	2 18 58.62	−0.16	....	....	C.	+11 48 59.2	+0.1	....	...
21.0	Br.	C.	3 11 3.92	−0.19	....	....	C.	+16 52 0.6	−0.6	....	...
22.0	Hd.	C.	3 19 12.81	−0.11	....	....	C.	+17 34 22.0	−0.7	....	...
26.0	Hd.	C.	3 53 30.94	−0.17	....	....	C.	+20 14 43.4	−1.4	....	...
June 5.0	B.	C.	5 26 37.49	+0.07	....	....	C.	+24 44 29.8	+0.6	....	...
6.0	Ei.	I	5 35 55.72	−0.03	....	....	C.	+24 57 10.3	−0.2	....	...
9.0	B.	I	6 3 11.91	−0.10	....	....	C.	+25 18 42.8	−0.1	....	...
11.0	Ei.	I	6 20 40.24	−0.02	....	....	C.	+25 19 56.3	−0.3	....	...
26.1	B.	I	8 6 33.92	−0.17	....	....	C.	+21 30 25.3	+1.5	....	...
27.1	Br.	I	8 11 54.12	−0.15	....	....	C.	+21 5 51.2	+0.3	....	...
30.1	B.	I	8 26 33.77	−0.15	....	....	C.	+19 49 28.1	−0.6	....	...
July 2.1	Ei.	I	8 35 11.59	−0.03	....	....	C.	+18 57 16.8	−0.3	....	...
5.1	B.	I	8 46 21.24	−0.09	....	....	C.	+17 39 6.0	0.0	....	...
7.1	Br.	I	8 52 33.48	−0.18	....	....	C.	+16 48 14.4	+0.1	....	...
10.1	Br.	I	8 59 54.52	−0.17	....	....	C.	+15 35 56.9	+0.4	....	...
11.1	Ei.	I	9 1 48.82	−0.13	....	....	C.	+15 13 21.0	−0.1	....	...
13.1	Ei.	I	9 4 45.88	−0.21	....	....	C.	+14 31 6.2	−0.7	....	...
16.1	Ei.	I	9 6 58.03	−0.16	....	....	C.	+13 36 52.4	−0.7	....	...
17.1	Br.	I	9 7 5.34	−0.15	....	....	C.	+13 21 42.7	−0.2	....	...
19.1	B.	C.	9 6 24.05	−0.13	....	....	C.	+12 56 27.4	+2.0	....	...
20.1	Br.	I	9 5 35.50	−0.20	....	....	C.	+12 46 31.0	+0.1	....	...
21.0	B.	C.	9 4 28.82	−0.21	....	....	C.	+12 38 33.4	−0.2	....	...
Aug. 10.0	Ei.	II	8 21 27.60	−0.12	....	....	C.	+16 4 14.0	−0.6	....	...
14.0	La.	II	8 24 32.64	+0.02	....	....	C.	+17 2 14.8	0.0	....	...
27.0	Ei.	II	9 24 50.28	−0.09	....	....	C.	+16 13 17.7	+0.2	....	...
28.0	Hd.	C.	9 31 46.74	−0.17	....	....	C.	+15 49 55.7	−0.3	....	...
30.0	Br.	C.	9 46 6.97	−0.17	....	....	C.	+14 55 5.9	+0.9	....	...
31.0	Ei.	II	9 53 26.58	−0.13	....	....	C.	+14 23 52.5	+0.5	....	...
Sept. 1.0	B.	C.	10 0 49.83	−0.26	....	....	C.	+13 50 20.8	−0.3	....	...
5.0	B.	C.	10 30 30.79	−0.11	....	....	C.	+11 17 3.3	+0.9	....	...
6.0	Ei.	II	10 37 51.89	−0.09	....	....	C.	+10 34 51.8	+0.1	....	...
19.0	Hh.	C.	12 6 41.20	−0.04	....	....	.	+ 0 30	...	....	...

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1900			h m s	s	s	s		° ′ ″	″	″	″
Sept. 20.0	Hd.	C.	12 12 59.16	+0.06	....	....	C.	0 16 41.4	+1.8	....	...
24.0	Hh.	C.	12 37 33.69	+0.04	....	....	C.	− 3 22 20.2	+1.2	....	...
25.0	B.	C.	12 43 34.11	+0.02	....	....	C.	− 4 7 48.5	+1.4	....	...
26.0	Hh.	C.	12 49 31.56	−0.06	....	....	C.	− 4 52 50.4	+1.1	....	...
Oct. 6.0	Br.	C.	13 47 2.78	−0.14	....	....	C.	−11 53 8.7	−0.5	....	...
10.0	Hh.	C.	14 9 16.74	−0.09	....	....	C.	−14 22 48.1	+0.7	....	...
11.0	B.	I	14 14 46.88	−0.06	....	....	C.	−14 58 20.2	−1.3	....	...
15.0	Hh.	C.	14 36 32.96	−0.05	....	....	C.	−17 11 56.6	+1.0	....	...
16.0	Br.	C.	14 41 55.41	−0.05	....	....	C.	−17 43 10.0	−1.1	....	...
17.0	Hh.	C.	14 47 15.99	+0.02	....	....	C.	−18 13 22.4	+0.9	....	...
18.0	B.	I	14 52 34.22	−0.12	....	....	C.	−18 42 39.4	−0.3	....	...
19.0	Hh.	C.	14 57 50.28	+0.01	....	....	C.	−19 10 54.6	−0.2	....	...
20.0	Br.	C.	15 3 3.50	+0.07	....	....	C.	−19 38 6.3	+0.7	....	...
24.1	B.	I	15 23 20.13	+0.01	....	....	C.	−21 15 46.6	−0.4	....	...
25.1	B.	I	15 28 12.48	−0.01	....	....	C.	−21 37 10.6	−0.2	....	...
27.1	Br.	C.	15 37 37.79	−0.04	....	....	C.	−22 16 2.1	−0.8	....	...
Nov. 5.1	S.	I	16 10 31.30	−0.11	....	....	C.	−23 52 11.4	−0.6	....	...
6.0	Br.	I	16 12 36.36	−0.10	....	....	C.	−23 53 4.1	+0.1	....	...
7.0	S.	I	16 14 13.73	+0.02	....	....	C.	−23 51 32.9	−0.8	....	...
10.0	Br.	C.	16 15 49.95	−0 03	....	....	C.	−23 30 42.4	−1.5	....	...
30.9	S.	II	15 14 40.19	+0.15	....	....	C.	−15 18 55.1	+1.1	....	...
Dec. 9.9	Hh.	C.	15 43 21.55	+0.10	....	....	C.	−17 37 30.0	−0.2	....	...
12.9	Br.	C.	15 58 8.85	+0.11	....	....	C.	−18 44 49.8	+1.3	....	...
14.9	B.	C.	16 8 50.12	+0.08	....	....	C.	−19 30 3.2	−0.6	....	...
16.9	Hh.	C.	16 20 2.74	+0.09	....	....	C.	−20 14 6.7	+0.4	....	...
17.9	B.	C.	16 25 49.07	+0.07	....	....	C.	−20 35 27.7	−0.1	....	...
29.0	B.	C.	17 34 28.63	+0.20	....	....	C.	−23 37 15.0	+0.3	....	...
1901											
Jan. 4.0	Hh.	C.	18 14 39.14	+0.02	....	....	C.	−24 21 33.8	−0.2	....	...
8.0	B.	.	18 42 8.73	+0.06	0.25	+0.08	C.	−24 25 23.0	+0.6	....	...
12.0	B.	.	19 10	....	....	....	C.	−24 7 9.2	−2.1	....	...
15.0	B.	.	19 31 12.34	+0.01	0.39	+0.22	C.	−23 38 13.8	+1.3	....	...
Feb. 1.0	Hh.	C.	21 31 36.28	0.00	....	....	C.	−16 35 37.0	−1.1	....	...
2.0	Br.	C.	21 38 32.29	+0.09	....	....	C.	−15 57 7.5	+0.7	....	...
5.0	Br.	C.	21 59 0.55	+0.05	....	....	C.	−13 53 51.6	−0.7	....	...
6.0	Hh.	C.	22 5 41.49	+0.10	....	....	C.	−13 10 23.5	−0.9	....	...
7.0	Hd.	C.	22 12 16.70	−0.02	....	....	C.	−12 25 54.4	−1.1	....	...
12.1	Br.	C.	22 43 12.19	+0.01	....	....	C.	− 8 33 39.8	−0.9	....	...
14.1	Hd.	C.	22 54 11.08	−0.01	....	....	C.	− 7 0 12.1	+0.9	....	...
16.1	Br.	I	23 4 0.62	−0.07	....	....	C.	− 5 29 55.0	−0.2	....	...
19.1	Br.	C.	23 15 57.90	−0.08	....	....	C.	− 3 26 42.4	−1.6	....	...
20.1	Hh.	I	23 19 3.79	−0.09	....	....	C.	− 2 50 25.6	−0.1	....	...
Mar. 18.0	Hh.	II	22 37 54.72	−0.01	....	....	C.	− 6 59 1.5	+1.1	....	...
20.9	La.	II	22 37 58.16	+0.16	....	....	C.	− 7 46 36.0	+1.1	....	...
28.9	K.	C.	22 52 19.41	+0.13	....	....	C.	− 8 10 28.4	+0.3	....	...
31.9	La.	C.	23 1 47.14	+0.10	....	....	.	7 44	...	....	...
Apr. 9.9	Br.	C.	23 38 57.28	+0.04	....	....	C.	− 4 52 46.7	−1.2	....	...
10.9	La.	C.	23 43 43.19	−0.08	....	....	C.	− 4 26 4.7	−0.5	....	...
11.9	B.	II	23 48 36.04	+0.25	....	....	C.	− 3 58 1.9	−0.7	....	...
15.9	B.	II	0 9 7.22	+0.21	....	....	C.	− 1 52 52.9	−0.4	....	...
16.9	Br.	C.	0 14 29.57	+0.02	....	....	C.	− 1 18 32.1	−0.1	....	...
26.0	B.	II	1 7 18.64	+0.16	....	....	C.	+ 4 38 23.8	−1.3	....	...
29.0	La.	C.	1 26 50.58	−0.01	....	....	C.	+ 6 53 34.2	−0.5	....	...
30.0	B.	.	1 33 35.94	+0.05	0.19	+0.01	C.	+ 7 40 1.7	+0.1	....	...
May 3.0	B.	.	1 54 38.97	−0.06	0.29	+0.11	C.	+10 2 35.5	−1.1	....	...
4.0	Br.	.	2 1 56.70	+0.05	0.22	+0.04	C.	+10 50 56.2	−0.5	....	...
June 4.1	B.	I	6 19 59.44	−0.21	....	....	C.	+25 29 32.8	+0.7	....	...
6.1	La.	C.	6 33 16.02	−0.17	....	....	C.	+25 15 49.8	+0.9	....	...
8.1	Br.	I	6 45 36.51	−0.19	....	....	C.	+24 55 53.4	−0.8	....	...
10.1	Br.	I	6 56 58.97	−0.23	....	....	C.	+24 30 42.2	0.0	....	...

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semidiameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1901			h m s	s	s	s		° ′ ″	″	″	″
June 11.1	B.	I	7 2 17.84	−0.25	....	....	C.	+24 16 25.8	+1.4	....	...
18.1	B.	I	7 32 10.88	−0.08	....	....	C.	+22 14 34.7	+1.4	....	...
24.1	Y.	I	7 46 43.54	−0.12	....	....	C.	+20 18 47.0	−0.1	....	...
25.1	B.	I	7 48 4.49	−0.12	....	....	C.	+20 0 8.5	−0.4	....	...
26.1	Br.	I	7 49 6.33	−0.15	....	....	C.	+19 41 58.7	+0.4	....	...
July 29.9	B.	II	7 16 21.57	+0.10	....	....	C.	+19 45 35.8	−1.0	....	...
31.9	L.	II	7 22 53.44	+0.06	....	....	C.	+20 4 30.4	0.0	....	...
Aug. 1.9	B.	II	7 26 48.25	+0.06	....	....	C.	+20 12 20.3	0.0	....	...
8.0	Br.	II	7 58 41.45	−0.04	....	....	C.	+20 24 55.7	+0.3	....	...
9.0	B.	II	8 5 15.12	+0.09	....	....	C.	+20 19 40.0	+1.0	....	...
10.0	Y.	II	8 12 6.16	−0.08	....	....	C.	+20 11 53.6	+1.0	....	...
21.0	Y.	II	9 37 53.40	+0.08	....	....	C.	+15 54 27.7	+0.5	....	...
Sept. 5.0	Y.	.	11 26 43.82	+0.07	0.20	+0.04	C.	+ 4 55 34.9	−0.3	....	...
6.0	B.	.	11 33 8.76	−0.03	0.23	+0.07	C.	+ 4 8 30.2	+1.0	....	...
7.0	L.	.	11 39 28.42	+0.06	0.22	+0.06	C.	+ 3 21 27.2	−0.5	....	...
9.0	Y.	.	11 51 52.16	+0.10	0.15	−0.01	C.	+ 1 47 50.9	−0.4	....	...
13.0	B.	.	12 15 44.05	+0.03	0.31	+0.14	C.	− 1 16 22.0	+0.1	....	...
21.0	Y.	.	13 0	....	....	....	C.	− 7 5 15.0	+0.6	....	...
23.0	Y.	I	13 11 8.52	+0.07	....	....	C.	− 8 27 6.9	−0.1	....	...
24.0	B.	I	13 16 24.30	+0.06	....	....	C.	− 9 7 4.7	+1.0	....	...
26.0	Y.	.	13 26 47.65	+0.11	0.08	−0.10	C.	−10 25 2.8	−0.4	....	...
Oct. 1.1	B.	I	13 51 54.96	−0.01	....	....	C.	−13 26 53.1	−1.7	....	...
4.1	B.	I	14 6 19.59	+0.03	....	....	C.	−15 5 46.0	−1.0	....	...
5.1	L.	C.	14 10 59.70	+0.01	....	....	C.	−15 36 48.6	−0.7	....	...
7.1	Br.	C.	14 20 5.58	0.00	....	....	C.	−16 35 45.6	−1.4	....	...
8.1	B.	I	14 24 30.31	−0.06	....	....	C.	−17 3 31.9	−0.1	....	...
15.1	B.	I	14 51 43.85	−0.07	....	....	C.	−19 40 39.1	−0.5	....	...
16.1	L.	I	14 54 53.55	−0.02	....	....	C.	−19 56 42.9	−0.8	....	...
18.1	B.	.	15 0	....	....	....	C.	−20 22 52.4	+0.3	....	...
19.1	Br.	I	15 2 45.55	−0.02	....	....	C.	−20 32 42.6	−1.0	....	...
21.0	Br.	C.	15 6 20.21	+0.01	....	....	C.	−20 44 53.1	+0.6	....	...
22.0	B.	I	15 7 30.98	−0.10	....	....	.	−20 46	...	....	...
25.0	B.	I	15 8 10.80	−0.11	....	....	C.	−20 33 32.4	−1.1	....	...

SIX-INCH TRANSIT CIRCLE.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semidiameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
26.0	L.	I	15 7 19.86	+0.07	....	....	C.	−20 21 50.1	−0.9	....	...
Nov. 15.9	L.	II	14 14 35.90	+0.07	....	....	C.	−11 1 30.8	+1.0	....	...
19.9	L.	C.	14 26 0.58	+0.08	....	....	C.	−11 56 41.7	+1.4	....	...
21.9	Br.	II	14 33 59.14	+0.12	....	....	C.	−12 40 54.0	+1.0	....	...
24.9	Y.	II	14 47 54.18	+0.02	....	....	C.	−13 59 7.7	+1.1	....	...
26.9	L.	C.	14 58 9.38	+0.05	....	....	C.	−14 55 45.9	+0.8	....	...
29.9	L.	C.	15 14 35.65	+0.15	....	....	C.	−16 23 1.0	−0.3	....	...
Dec. 1.9	L.	C.	15 26 5.62	+0.07	....	....	C.	−17 20 47.9	+1.1	....	...
5.0	Br.	C.	15 43 58.48	+0.10	....	....	.	−18 44	...	....	...
6.0	L.	C.	15 50 4.69	+0.18	....	....	C.	−19 11 25.9	+0.7	....	...
7.0	B.	.	15 56 14.49	+0.13	0.18	0.00	.	−19 37	...	....	...
10.0	Br.	C.	16 15 4.40	−0.02	....	....	C.	−20 51 15.5	+0.9	....	...
24.0	B.	.	17 48 14.93	−0.04	0.24	+0.07	C.	−24 33 20.3	+0.1	....	...
1902.											
Jan. 13.0	Br.	C.	20 10 8.08	−0.04	....	....	C.	−22 14 25.4	−0.2	....	...
15.0	L.	C.	20 24 18.00	+0.03	....	....	C.	−21 26 39.0	−1.2	....	...
17.0	B.	.	20 38 19.44	+0.03	0.29	+0.11	C.	−20 32 37.2	−0.3	....	...
20.0	Br.	C.	20 58 57.36	0.00	....	....	C.	−19 0 23.1	+1.3	....	...
28.1	B.	C.	21 49 6.13	−0.11	....	....	C.	−14 2 30.0	+2.0	....	...
Feb. 3.1	Br.	I	22 16 21.87	−0.10	....	....	C.	−10 10 27.6	0.0	....	...
5.1	L.	C.	22 21 56.20	0.00	....	....	C.	− 9 4 36.6	+2.4	....	...
6.1	Br.	I	22 23 52.58	+0.02	....	....	C.	− 8 35 46.1	+1.8	....	...
7.1	B.	I	22 25 12.16	−0.18	....	....	C.	− 8 10 13.5	+0.2	....	...
10.0	Br.	I	22 25 19.74	+0.01	....	....	.	− 7 17	...	....	...
Mar. 5.9	Br.	II	21 31 43.89	+0.12	....	....	C.	−13 28 4.1	+1.8	....	...
9.9	Br.	II	21 39 56.89	−0.06	....	....	C.	−13 41 35.1	+1.9	....	...
13.9	Br.	II	21 52 25.93	+0.09	....	....	C.	−13 25 34.3	+0.8	....	...

MERCURY—Continued.

Date.	Observed.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1902			h m s	s	s	s		° ′ ″	″	″	″
Mar. 20.9	B.	II	22 21 19.40	+0.13	....	....	C.	−11 53 49.0	−1.1	....	...
23.9	Br.	C.	22 35 38.89	+0.05	....	....	C.	−10 51 53.8	0.0	....	...
25.9	L.	C.	22 45 41.63	−0.05	....	....	C.	−10 3 39.5	−0.5	....	...
Apr. 16.0	Br.	II	0 50 5.81	+0.13	....	....	C.	+ 3 14 19.3	−0.1	...	...
24.0	Br.	C.	1 47 48.77	+0.03	....	....	C.	+10 4 14.5	+1.9	....	...
May 1.0	Br.	C.	2 44 11.83	+0.07	....	....	C.	+16 6 21.5	−1.5	....	...
5.0	Br.	C.	3 18 5.31	−0.04	....	....	C.	+19 11 18.8	−0.4	....	...
6.0	L.	.	3 26	....	....	....	C.	+19 53 2.8	+0.3	....	...
8.0	Br.	I	3 43 31.78	−0.08	....	....	C.	+21 9 52.7	−0.3	....	...
10.0	S.	I	4 0 11.26	−0.27	....	....	C.	+22 17 9.0	0.0	....	...
14.0	S.	I	4 32 5.18	0.00	....	....	C.	+24 1 4.2	−0.9	....	...
20.1	L.	I	5 14 31.38	−0.02	....	....	C.	+25 22 49.9	−0.4	....	...
22.1	Br.	I	5 26 51.94	−0.03	....	....	C.	+25 32 30.5	−0.7	....	...
23.1	L.	I	5 32 39.75	+0.03	....	....	C.	+25 34 28.0	−1.0	....	...
26.1	Br.	I	5 48 27.50	−0.09	....	....	C.	+25 30 1.4	−0.8	...	...
29.1	Br.	I	6 1 44.13	−0.04	....	....	C.	+25 12 5.1	−2.4	....	...
June 2.1	Br.	I	6 15 13.40	−0.02	....	....	C.	+24 31 40.5	−0.5	....	...
3.1	L.	I	6 17 48.21	−0.09	....	....	C.	+24 19 11.8	−1.1	....	...
4.1	S.	I	6 20 3.50	−0.12	....	....	C.	+24 5 56.7	−1.7	....	...
6.1	Br.	I	6 23 34.46	−0.14	....	....	C.	+23 37 31.2	+0.1	....	...
9.1	Br.	I	6 26 20.11	−0.02	....	....	C.	+22 51 8.5	−1.3	....	...
July 5.0	S.	C.	5 48 9.32	+0.11	....	....	C.	+18 58 9.9	+1.3	....	...
10.9	L.	C.	5 55 24.83	+0.19	....	....	C.	+19 53 43.5	−0.2	....	...
15.9	S.	II	6 11 38.54	−0.03	....	....	C.	+20 55 46.6	−0.5	....	...
16.9	R.	C.	6 15 59.99	+0.03	....	....	C.	+21 8 7.5	+1.8	....	...
21.9	Br.	II	6 43 8.46	+0.07	....	....	C.	+21 59 13.1	+1.5	....	...
22.9	S.	C.	6 49 35.31	−0.03	....	....	C.	+22 5 56.5	−0.1	....	...
Aug. 4.0	R.	C.	8 25 20.86	−0.09	....	....	C.	+20 36 47.0	+0.6	....	...
5.0	L.	C.	8 34 1.51	−0.06	....	....	C.	+20 12 46.5	+0.3	....	...
18.0	R.	C.	10 18 19.43	−0.05	....	....	C	+12 16 9.6	+0.5	....	...
23.0	Br.	.	10 52 31.79	+0.04	0.17	0.00	C.	+ 8 31 25.4	−1.1	....	...
25.0	L.	C.	11 5 21.37	−0.10	....	....	C.	+ 7 0 2.4	−0.7	....	...
26.0	Br.	C.	11 11 36.28	−0.07	....	....	.	+ 6 14	...	....	...
27.0	L.	C.	11 17 44.99	+0.08	....	....	C.	+ 5 28 38.0	+1.6	....	...
29.0	Br.	I	11 29 44.01	+0.01	....	....	C.	+ 3 57 33.3	+1.3	....	...
Sept. 5.1	S.	C.	12 8 52.96	+0.01	....	....	C.	− 1 13 16.6	+2.5	....	...
6.1	R.	C.	12 14 9.17	−0.07	....	....	C.	− 1 56 12.2	+1.4	....	...
8.1	R.	C.	12 24 28.38	−0.05	....	....	C.	− 3 20 35.4	−0.5	....	...
11.1	L.	I	12 39 24.35	+0.01	....	....	C.	− 5 22 59.2	−0.3	....	...
12.1	S.	I	12 44 14.24	+0.05	....	....	C.	− 6 2 33.2	−0.3	....	...
15.1	S.	C.	12 58 16.37	+0.01	....	....	C.	− 7 57 2.1	+1.7	....	...
Oct. 29.9	L.	II	13 13 1.69	+0.11	....	....	C.	− 5 49 13.6	+1.2	....	...
30.9	Br.	II	13 14 48.75	+0.09	....	....	C.	− 5 51 13.2	+2.5	....	...
31.9	R.	II	13 17 8.20	+0.01	....	....	C.	− 5 58 14.6	+1.0	....	...
Nov. 2.9	L.	C.	13 23 13.04	+0.18	....	....	C.	− 6 25 25.1	+1.2	....	...
3.9	Br.	C.	13 26 52.19	+0.04	....	....	C.	− 6 44 40.9	0.0	....	...
9.9	L.	C.	13 54 45.84	+0.12	....	....	C.	− 9 32 2.5	+0.7	....	...
19.0	R.	C.	14 46 19.77	−0.02	....	....	C.	−14 42 40.9	+0.5	....	...
21.0	Br.	C.	14 58 31.68	−0.04	....	....	C.	−15 50 12.2	+0.9	....	...
28.0	Br.	C.	15 42 30.17	+0.09	....	....	C.	−19 26 7.9	−1.1	....	...
29.0	R.	C.	15 48 55.67	+0.05	....	....	C.	−19 53 43.5	−1.5	....	...
Dec. 2.0	Br.	C.	16 8 24.56	+0.05	....	....	C.	−21 10 44.4	+1.0	....	...
30.0	Br.	C.	19 22 5.86	+0.07	....	....	C.	−24 17 42.5	−1.4	....	...
1903											
Jan. 9.1	Br.	C.	20 29 27.60	−0.11	....	....	C.	−20 46 25.3	−2.0	....	...
12.1	L.	C.	20 47 14.77	−0.05	....	....	C.	−19 17 47.2	−0.7	....	...
13.1	Br.	C.	20 52 43.17	+0.04	....	....	C.	−18 46 37.4	+0.9	....	...
16.1	Br.	C.	21 7 16.19	−0.03	....	....	C.	−17 11 21.7	−0.7	....	...
19.1	L.	C.	21 18 6.75	−0.07	....	....	C.	−15 39 21.5	0.0	....	...
21.1	R.	C.	21 22 37.88	−0.10	....	....	.	−14 44	...	....	...

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1903			h m s	s	s	s		° ′ ″	″	″	″
Mar. 2.9	Br.	C.	21 11 36.45	+0.02	....	....	C.	−17 0 19.0	+1.8	....	...
12.9	Br.	C.	22 4 7.71	+0.03	....	....	C.	−13 51 47.6	+1.5	....	...
13.9	R.	C.	22 9 47.52	+0.09	....	....	C.	−13 25 44.7	−0.7	....	...
Apr. 17.0	Br.	C.	1 58 11.76	+0.10	....	....	C.	+12 7 13.9	0.0	....	...
18.0	R.	C.	2 6 5.79	+0.08	....	....	C.	+13 0 59.5	−0.4	....	...
21.0	L.	I	2 29 51.56	−0.01	....	....	C.	+15 35 32.9	−0.6	....	...
24.0	Br.	C.	2 53 19.82	+0.09	....	....	C.	+17 55 42.0	−0.1	....	...
27.0	L.	I	3 15 57.59	+0.01	....	....	C.	+19 56 49.6	−0.9	....	...
28.0	Br.	C.	3 23 13.33	−0.09	....	....	C.	+20 32 27.9	0.0	....	...
29.0	L.	I	3 30 18.89	−0.16	....	....	C.	+21 5 34.9	−1.2	....	...
30.0	L.	I	3 37 13.26	−0.20	....	....	C.	+21 36 12.8	−0.6	....	...
May 2.1	R.	I	3 50 24.70	−0.23	....	....	C.	+22 29 53.0	−0.2	....	...
4.1	L.	I	4 2 40.76	−0.21	....	....	C.	+23 13 34.2	−0.3	....	...
5.1	Br.	I	4 8 26.35	−0.03	....	....	C.	+23 31 45.3	−1.1	....	...
6.1	R.	I	4 13 55.87	−0.01	....	....	C.	+23 47 36.1	−0.5	....	...
7.1	L.	I	4 19 8.86	−0.01	....	....	C.	+24 1 8.5	−0.2	....	...
8.1	Br.	I	4 24 4.74	−0.04	....	....	C.	+24 12 25.8	−0.7	....	...
9.1	R.	I	4 28 43.09	0.00	....	....	C.	+24 21 33.2	−0.4	....	...
June 30.9	R.	II	5 4 57.82	+0.01	....	....	C.	+20 11 1.5	+0.4	....	...
July 1.9	L.	C.	5 9 59.46	+0.08	....	....	C.	+20 29 8.6	−0.2	....	...
2.9	Br.	C.	5 15 19.02	+0.01	....	....	C.	+20 47 18.2	−0.3	....	...
6.9	Br.	II	5 39 36.91	+0.06	....	....	C.	+21 56 46.6	−0.8	....	...
7.9	R.	II	5 46 25.45	+0.01	....	....	C.	+22 12 25.2	−1.3	....	...
8.9	L.	II	5 53 31.15	0.00	....	....	C.	+22 27 0.1	−0.7	....	...
11.0	R.	II	6 8 31.95	−0.01	....	....	C.	+22 52 6.5	−0.3	....	...
14.0	Br.	II	6 32 55.44	+0.13	....	....	C.	+23 16 36.3	−0.9	....	...
16.0	L.	.	6 50 12.90	+0.01	0.22	+0.02	C.	+23 22 0.4	−1.2	....	...
17.0	Br.	C.	6 59 6.12	+0.16	....	....	C.	+23 21 0.9	+0.8	....	...
20.0	L.	.	7 26 21.63	−0.05	0.26	+0.07	C.	+23 1 52.9	−0.5	....	...
23.0	L.	.	7 53 53.61	−0.09	0.26	+0.07	C.	+22 18 19.0	+1.2	....	...
30.0	L.	.	8 55 22.37	+0.06	0.20	+0.02	C.	+19 13 10.0	−0.8	....	...
Aug. 12.0	R.	I	10 29 59.09	+0.01	....	....	C.	+10 36 11.3	−1.2	....	...
21.1	R.	I	11 21 54.10	+0.01	....	....	C.	+ 4 6 42.3	+0.5	....	...
22.1	Br.	I	11 27 6.76	−0.09	....	....	C.	+ 3 24 17.5	−0.6	....	...
25.1	Br.	C.	11 42 7.96	−0.15	....	....	C.	+ 1 19 21.5	−0.7	....	...
Sept. 3.1	L.	C.	12 21 31.82	−0.12	....	....	C.	− 4 24 35.7	−1.2	....	...
4.1	R.	C.	12 25 20.05	−0.01	....	....	C.	− 4 58 51.3	−0.7	....	...

VENUS.

SIX-INCH TRANSIT CIRCLE.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1900											
Jan. 2.1	Br.	.	20 46 1.42	−0.13	0.47	+0.05	.	−19 45 11.9	+0.3	6.4	+0.6
4.1	La.	.	20 56 11.06	−0.01	0.52	+0.10	C.	−19 5 17.8	−0.7	....	...
5.1	B.	.	21 1 13.61	−0.14	0.50	+0.08	C.	−18 44 29.4	+1.6	....	...
6.1	U.	I	21 6 14.93	−0.09	....	....	C.	−18 23 13.4	+0.2	....	...
8.1	La.	.	21 16 13.18	−0.16	0.51	+0.09	C.	−17 39 8.0	−0.4	....	...
15.1	La.	.	21 50 23.47	−0.04	0.43	0.00	C.	−14 50 14.8	−1.6	....	...
16.1	Br.	.	21 55 10.84	−0.11	0.37	−0.06	.	−14 24 25.2	−0.2	5.9	−0.2

NINE-INCH TRANSIT CIRCLE.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
23.1	Br.	.	22 28 7.86	+0.03	0.42	−0.01	.	−11 13 54.1	−0.4	6.6	+0.3
24.1	B.	.	22 32 45.53	0.00	0.52	+0.08	C.	−10 45 24.2	+1.2	....	...
26.1	La.	I	22 41 57.43	−0.25	....	....	C.	− 9 47 39.3	+0.5	....	...
27.1	Br.	.	22 46 32.09	−0.11	0.31	−0.13	C.	− 9 18 22.7	+1.4	....	...
31.1	B.	.	23 4 40.59	−0.07	0.53	+0.09	C.	− 7 19 7.5	+0.6	....	...

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1900			h m s	s	s	s		° ′ ″	″	″	″
Feb. 1.1	La.	.	23 9 10.70	+0.18	0.52	+0.08	C.	— 6 48 48.7	+0.9	....	...
3.1	B.	I	23 18 7.78	—0.02	....	....	C.	— 5 47 43.6	—0.8	....	...
5.1	La.	.	23 27 2.09	+0.08	0.46	+0.01	C.	— 4 46 2.5	—1.2	....	...
14.1	B.	I	0 6 35.66	—0.12	....	....	C.	— 0 3 58.9	—1.3	....	...
15.1	La.	.	0 10 57.07	—0.16	0.52	+0.06	C.	+ 0 27 34.5	—0.7	....	...
19.1	Ei.	I	0 28 20.24	—0.09	....	....	C.	+ 2 33 36.8	—0.7	....	...
26.1	Ei.	I	0 58 40.97	—0.14	....	....	C.	+ 6 11 48.7	—1.5	....	...
27.1	Br.	I	1 3 0.98	—0.35	....	....	C.	+ 6 42 33.1	—1.6	....	...
Mar. 7.1	B.	I	1 37 49.54	—0.27	....	....	C.	+10 42 18.3	—1.6	....	...
12.1	Ei.	I	1 59 44.62	—0.11	....	....	C.	+13 4 48.4	—0.5	....	...
22.1	Br.	I	2 44 6.66	—0.22	....	....	.	+17 26 16.4	—0.8	9.1	+0.6
24.1	Br.	I	2 53 4.92	—0.21	....	....	.	+18 14 3.6	—1.7	8.9	+0.3
27.1	Br.	I	3 6 35.99	—0.20	....	....	.	+19 22 35.8	—0.4	8.6	—0.3
28.1	Ei.	I	3 11 7.36	—0.12	....	....	.	+19 44 31.9	—1.2	9.6	+0.6
Apr. 2.1	Ei.	I	3 33 50.01	—0.05	....	....	C.	+21 27 10.1	—0.7	....	...
3.1	La.	.	3 38 23.59	+0.01	0.73	+0.07	C.	+21 46 12.5	—0.8	....	...
5.1	Br.	I	3 47 31.26	—0.07	....	....	.	+22 22 43.7	—1.7	9.9	+0.4
6.1	Ei.	I	3 52 5.40	—0.06	....	....	C.	+22 40 13.4	—0.5	....	...
10.1	La.	I	4 10 22.31	—0.28	....	....	C.	+23 44 41.4	—0.7	....	...
14.1	La.	I	4 28 37.70	—0.19	....	....	C.	+24 40 10.4	—1.5	....	...
25.1	Ei.	I	5 18 4.53	—0.02	....	....	.	+26 24 37.8	+0.4	11.2	—0.3
26.1	Br.	I	5 22 28.31	—0.04	....	....	.	+26 30 34.3	+0.3	12.2	+0.6
27.1	Ei.	I	5 26 50.67	—0.09	....	....	.	+26 35 54.9	—0.5	12.0	+0.2
28.1	La.	I	5 31 11.65	—0.02	....	....	S.	+26 40 41.4	—0.2	....	...
May 4.1	La.	I	5 56 39.03	—0.01	....	....	S.	+26 57 15.3	—0.2	....	...
5.1	Hd.	I	6 0 46.06	—0.05	....	....	N.	+26 58 1.9	—1.8	....	...
8.1	Hd.	I	6 12 51.84	+0.02	....	....	S.	+26 57 15.5	+0.5	....	...
10.1	Hd.	I	6 20 41.36	—0.03	....	....	S.	+26 54 5.4	—1.2	....	...
14.1	Br.	I	6 35 41.33	—0.02	....	....	.	+26 41 56.5	—0.4	14.4	—0.1
15.1	Hd.	I	6 39 17.30	—0.06	....	....	S.	+26 37 44.2	—0.6	....	...
16.1	Br.	I	6 42 49.49	+0.01	....	....	.	+26 33 6.8	+0.6	14.8	—0.1
21.1	Br.	I	6 59 26.30	—0.17	....	....	.	+26 3 42.2	0.0	16.0	+0.1
22.1	Hd.	I	7 2 32.19	+0.14	....	....	S.	+25 56 40.3	—0.6	....	...
26.1	Hd.	I	7 14 2.80	+0.04	....	....	.	+25 25 15.7	—0.2	17.8	+0.6
June 1.1	Ei.	I	7 28 22.80	+0.05	....	....	.	+24 29 54.7	0.0	19.0	+0.1
5.1	B.	I	7 35 38.47	—0.02	....	....	C.	+23 49 6.0	+1.0	....	...
6.1	Ei.	I	7 37 8.05	—0.05	....	....	.	+23 38 33.2	+0.8	20.6	+0.2
7.1	Hd.	I	7 38 29.45	—0.06	....	....	.	+23 27 53.3	—0.4	19.9	—0.9
9.1	B.	I	7 40 46.78	—0.03	....	....	N.	+23 6 21.1	—0.6	....	...
11.1	Ei.	I	7 42 28.45	—0.05	....	....	.	+22 44 36.7	+0.1	22.2	0.0
26.1	B.	I	7 34 24.26	—0.24	....	....	N.	+20 4 10.9	0.0	....	...
27.0	Br.	I	7 32 34.43	—0.27	....	....	N.	+19 54 8.4	+1.1	....	...
29.0	Br.	I	7 28 30.35	—0.22	....	....	N.	+19 34 24.6	+0.5	....	...
30.0	B.	I	7 26 17.18	—0.18	....	....	N.	+19 24 45.8	+0.1	....	...
July 2.0	Ei.	I	7 21 31.83	—0.10	....	....	N.	+19 5 59.1	0.0	....	...
11.0	Ei.	II	6 57 46.17	—0.09	....	....	N.	+17 52 52.5	+1.5	....	...
13.0	Ei.	II	6 52 43.75	—0.12	....	....	N.	+17 40 0.5	+0.6	....	...
14.0	Br.	II	6 50 20.20	—0.12	....	....	N.	+17 34 9.5	+0.8	....	...
16.0	Ei.	II	6 45 52.36	—0.08	....	....	N.	+17 23 40.8	+0.7	....	...
17.0	Br.	II	6 43 49.34	—0.14	....	....	N.	+17 19 4.6	+0.6	....	...
18.0	Ei.	II	6 41 54.55	—0.05	....	....	N.	+17 14 53.8	—0.2	...	...
19.9	Br.	II	6 38 30.88	—0.08	....	....	N.	+17 7 53.7	+0.4	....	...
20.9	B.	II	6 37 2.89	—0.06	....	....	N.	+17 5 2.9	+0.2	....	...
23.9	Br.	II	6 33 36.82	—0.15	....	....	N.	+16 59 6.9	+0.1	....	...
27.9	Br.	II	6 31 21.15	—0.06	....	....	N.	+16 56 52.0	—0.5	....	...
30.9	Br.	II	6 31 22.26	—0.07	....	....	N.	+16 58 50.6	—0.3	....	...
31.9	B.	II	6 31 41.61	—0.03	....	....	N.	+17 0 5.2	+0.1	....	...
Aug. 1.9	Br.	II	6 32 10.15	+0.01	....	....	N.	+17 1 35.7	+1.3	....	...
2.9	Ei.	II	6 32 47.57	—0.05	....	....	N.	+17 3 17.4	+0.3	....	...
3.9	B.	II	6 33 33.90	+0.02	....	....	N.	+17 5 12.1	+0.5	....	...

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1900			h m s	s	s	s		° ′ ″	″	″	″
Aug. 5.9	Ei.	II	6 35 31.79	−0.09	....	....	N.	+17 9 30.8	+0.7	....	...
6.9	La.	II	6 36 43.11	−0.04	....	....	.	+17 11 50.7	0.0	21.2	0.0
7.9	Ei.	II	6 38 2.26	−0.07	....	....	.	+17 14 17.2	+0.4	20.5	−0.3
8.9	Br.	II	6 39 29.04	−0.13	....	....	.	+17 16 47.3	+0.5	20.5	0.0
9.9	Ei.	II	6 41 3.46	0.00	....	....	.	+17 19 18.8	−0.3	20.3	+0.1
10.9	La.	II	6 42 44.82	−0.16	....	....	.	+17 21 52.8	+0.6	20.4	+0.5
13.9	La.	II	6 48 30.56	−0.02	....	....	.	+17 29 21.2	−0.1	18.9	−0.1
24.9	Hd.	II	7 17 0.02	−0.17	....	....	S.	+17 46 4.4	+0.3	....	...
26.9	Ei.	II	7 23 11.68	−0.04	....	....	.	+17 45 59.3	+0.3	15.8	+0.1
27.9	Hd.	II	7 26 23.14	−0.11	....	....	S.	+17 45 27.7	−0.5	....	...
28.9	Ei.	II	7 29 38.43	0.00	....	....	.	+17 44 37.5	+0.1	15.3	0.0
29.9	Br.	II	7 32 57.06	−0.04	....	....	.	+17 43 26.2	+0.3	14.9	−0.2
30.9	Ei.	II	7 36 19.13	+0.03	....	....	.	+17 41 53.1	+0.1	14.5	−0.4
31.9	B.	II	7 39 44.36	+0.03	....	....	.	+17 39 57.1	−0.8	13.9	−0.8
Sept. 3.9	Hd.	II	7 50 17.79	−0.16	....	....	.	+17 31 53.1	−0.6	13.6	−0.5
4.9	B.	.	7 53	....	....	....	S.	+17 28 22.4	−1.5	....	...
5.9	Ei.	II	7 57 34.07	−0.04	....	....	.	+17 24 29.7	+0.7	13.7	0.0
17.9	B.	II	8 44 11.75	+0.06	....	....	S.	+16 2 38.2	+0.7	....	...
18.9	Hh.	II	8 48 15.54	−0.08	....	....	S.	+15 52 45.2	−1.8	....	...
19.9	Hd.	II	8 52 20.84	+0.06	....	....	S.	+15 42 27.6	−0.6	....	...
23.9	Hh.	II	9 8 52.29	−0.10	....	....	S.	+14 56 30.1	−1.4	....	...
24.9	B.	II	9 13 2.76	+0.08	....	....	S.	+14 43 52.1	−0.4	....	...
25.9	Hh.	II	9 17 13.69	−0.10	....	....	S.	+14 30 46.0	+0.2	....	...
26.9	Hd.	II	9 21 25.58	−0.09	....	....	S.	+14 17 11.7	0.0	....	...
Oct. 5.9	Br.	II	9 59 39.12	−0.03	....	....	S.	+11 55 5.2	−1.0	....	...
14.9	Hh.	II	10 38 23.45	−0.08	....	....	S.	+ 8 59 52.0	−1.1	....	...
15.9	Br.	II	10 42 42.98	−0.01	....	....	S.	+ 8 38 35.6	−0.2	....	...
16.9	Hh.	II	10 47 2.49	−0.14	....	....	S.	+ 8 16 57.7	−1.0	....	...
17.9	B.	II	10 51 22.47	+0.03	....	....	S.	+ 7 55 0.0	−2.3	....	...
18.9	Hh.	II	10 55 42.38	−0.02	....	....	S.	+ 7 32 46.8	−0.3	....	...
19.9	Br.	II	11 0 2.45	−0.07	.....	....	S.	+ 7 10 13.5	−0.3	....	...
21.9	Hh.	II	11 8 42.96	−0.25	....	....	S.	+ 6 24 15.3	+0.2	....	...
23.9	B.	II	11 17 24.47	+0.02	....	....	S.	+ 5 37 10.9	−0.3	....	...
29.9	Br.	II	11 43 32.07	+0.01	....	....	S.	+ 3 10 18.2	+0.4	....	...
Nov. 4.9	S.	II	12 9 47.29	−0 07	....	....	S.	+ 0 36 38.1	−1.6	....	...
5.9	Br.	II	12 14 10.96	+0.04	....	....	S.	+ 0 10 32.6	−1.3	....	...
6.9	S.	.	12 18 34.84	−0.01	0.53	0.00	.	− 0 15 39.0	−0.6	8.0	+0.1
8.9	S.	.	12 27 23.90	+0.03	0.53	+0.01	.	− 1 8 21.6	−1.3	7.6	−0.2
9.9	Br.	II	12 31 49.12	+0.10	....	....	S.	− 1 34 50.3	−1.9	....	...
11.9	S.	.	12 40 40.68	−0.02	0.53	+0.02	.	− 2 27 55.9	−0.9	8.5	+0.8
21.9	Br.	II	13 25 32.84	−0.01	....	....	S.	− 6 53 43.4	−0.2	....	...
29.9	Hh.	II	14 2 18.74	+0.02	....	....	S.	−10 20 30.8	−0.2	....	...
30.9	S.	.	14 6 58.44	+0.02	0.48	+0.01	.	−10 45 37.7	−0.2	7.1	+0.2
Dec. 4.9	Hh.	II	14 25 47.19	−0.03	....	....	S.	−12 23 54.8	−1.6	....	...
6.9	Hh.	II	14 35 17.92	0.00	....	....	S.	−13 11 29.6	+1.3	....	...
12.9	Br.	.	15 4 17.23	+0.01	0.50	+0.04	.	−15 27 7.3	−0.6	8.5	+1.9
13.9	Hh.	II	15 9 11.10	−0.12	....	....	S.	−15 48 30.5	−0.1	....	...
14.9	B.	.	15 14 6.40	+0.01	0.54	+0.09	C.	−16 9 33.2	−1.9	....	...
16.9	Hh.	II	15 24 0.40	+0.04	....	....	S.	−16 50 22.2	−0.7	....	...
17.9	B.	.	15 28 59.12	−0.03	0.51	+0.06	C.	−17 10 8.7	+0.5	....	...
28.9	B.	.	16 25 2.97	+0.02	0.52	+0.08	C.	−20 16 37.6	+0.2	....	...
1901											
Jan. 2.9	Br.	.	16 51 15.13	+0.08	0.44	0.00	.	−21 19	...	....	...
3.9	Hh.	II	16 56 32.34	+0.06	....	....	S.	−21 30 37.9	+0.2	....	...
7.9	B.	.	17 17 49.52	+0 05	0.50	+0.07	C.	−22 7 41.1	+0.3	....	...
11.9	B.	.	17 39 17.64	−0.12	0.52	+0.09	C.	−22 34 17.6	+1.9	....	...
14.9	B.	.	17 55 29.25	−0.04	0.52	+0.10	C.	−22 47 13.9	−0.2	....	...
18.9	B.	.	18 17 8.94	+0.10	0.63	+0.21	C.	−22 54 46.6	+0.4	....	...
30.9	Br.	.	19 21 59.48	+0.13	0.42	+0.02	.	−22 10	...	....	...
31.9	Hh.	.	19 27 20.78	−0.11	0.39	−0.01	.	−22 2 32.9	+0.7	5.2	−0.4

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1901			h m s	s	s	s		° ′ ″	″	″	″
Feb. 1.9	Br.	.	19 32 41.87	+0.07	0.36	−0.04	.	−21 53 47.4	−2.0	8.6	+3.0
5.0	Br.	.	19 48 40.35	+0.15	0.45	+0.05	.	−21 23 24.4	−0.4	6.4	+0.9
6.0	Hh.	II	19 53 58.16	+0.07	....	....	S.	−21 12 1.0	−1.7	....	...
7.0	Hd.	.	19 59 15.24	+0.11	0.34	−0.06	C.	−20 59 57.2	−0.8	....	...
12.0	Br.	.	20 25 26.42	+0.05	0.35	−0.04	.	−19 50 27.3	0.0	5.7	+0.3
14.0	Hd.	.	20 35 47.89	+0.07	0.37	−0.01	C.	−19 18 28.8	+2.1	...	...
16.0	Br.	.	20 46 5.04	+0.09	0.42	+0.04	.	−18 44 19.1	+0.3	5.8	+0.4
27.0	Hh.	II	21 41 17.78	+0.01	....	....	N.	−14 59 58.4	+1.5	....	...
28.0	Hd.	.	21 46 12.09	+0.05	0.38	+0.01	C.	−14 36 51.5	+1.7	....	...
Mar. 7.0	Hd.	.	22 20 1.78	+0.01	0.42	+0.06	C.	−11 44 30.6	+0.7	....	...
12.0	La.	.	22 43 42.29	+0.08	0.45	+0.10	C.	− 9 31 40.8	−1.5	....	...
18.0	Hh.	II	23 11 40.07	−0.02	....	....	N.	− 6 43 54.5	+1.2	....	...
21.0	La.	.	23 25 30.14	−0.02	0.39	+0.05	C.	− 5 17 26.2	+0.8	....	...
23.0	B.	.	23 34 41.07	+0.18	0.46	+0.12	C.	− 4 19 3.6	−0.1	....	...
29.0	K.	.	0 2 3.61	+0.01	0.40	+0.06	C.	− 1 21 22.6	+1.5	....	...
Apr. 1.0	La.	.	0 15 41.66	−0.01	0.44	+0.11	C.	+ 0 8 12.4	−1.6	....	...
5.0	K.	.	0 33 51.64	+0.04	0.42	+0.09	C.	+ 2 7 51.5	−1.2	....	...
10.0	Br.	.	0 56 36.42	−0.13	0.30	−0.03	C.	+ 4 36 34.1	−0.4	....	...
16.0	B.	.	1 24 5.22	+0.04	0.43	+0.10	C.	+ 7 31 47.9	+0.4	....	...
17.0	Br.	.	1 28 41.51	−0.13	0.32	−0.01	C.	+ 8 0 30.0	+1.0	....	...
May 13.0	La.	.	3 33 20.30	+0.04	0.39	+0.04	C.	+18 47 43.2	+1.0	....	...
14.0	B.	.	3 38 22.01	+0.05	0.42	+0.07	C.	+19 7 14.8	−0.4	....	...
June 4.0	B.	.	5 27 50.78	−0.03	0.49	+0.13	C.	+23 44 12.4	+1.3	....	...
6.0	La.	.	5 38 33.74	−0.06	0.35	−0.01	C.	+23 55 36.5	−0.5	....	...
8.0	Br.	.	5 49 18.30	−0.04	0.42	+0.06	C.	+24 4 13.8	−0.3	....	...
10.0	Br.	.	6 0 3.87	−0.08	0.43	+0.06	C.	+24 10 0.4	−0.2	....	...
11.0	B.	.	6 5 26.93	−0.08	0.45	+0.08	C.	+24 11 49.9	+0.4	....	...
12.0	Br.	.	6 10 50.08	−0.09	0.38	+0.01	C.	+24 12 55.8	+0.5	....	...
24.0	Y.	.	7 15 12.45	−0.02	0.34	−0.04	C.	+23 30 15.2	+0.6	....	...
26.0	Br.	.	7 25 49.09	−0.03	0.40	+0.02	C.	+23 13 17.2	+0.1	....	...
28.0	B.	.	7 36 22.52	−0.08	0.45	+0.07	C.	+22 53 38.4	+1.7	....	...
29.1	Br.	.	7 41 38.08	+0.05	0.37	−0.01	C.	+22 42 47.8	+1.4	....	...
July 3.1	Br.	.	8 2 30.10	−0.01	0.43	+0.05	C.	+21 52 54.8	−0.1	....	...
5.1	B.	.	8 12 49.86	−0.04	0.47	+0.09	C.	+21 24 12.0	+0.3	....	...
9.1	B.	.	8 33 15.74	−0.08	0.46	+0.08	C.	+20 19 33.0	+1.1	....	...
16.1	B.	.	9 8 14.49	+0.01	0.49	+0.11	C.	+18 4 56.0	+0.5	....	...
20.1	Br.	.	9 27 45.96	−0.05	0.40	+0.02	C.	+16 36 59.0	−0.1	....	...
29.1	Y.	.	10 10 29.64	−0.05	0.31	−0.08	C.	+12 54 26.9	−0 4	....	...
Aug. 2.1	B.	.	10 28 59.44	−0.03	0.46	+0.07	C.	+11 6 21.4	−1.0	....	...
3.1	L.	.	10 33 34.30	−0.06	0.43	+0.04	C.	+10 38 35.2	−1.3	....	...
8.1	B.	.	10 56 15.11	−0.09	0.46	+0.07	C.	+ 8 15 56.0	+0.6	....	...
9.1	B.	.	11 0 44.96	+0.07	0.44	+0.05	C.	+ 7 46 42 1	+0.4	....	...
21.1	Y.	.	11 53 53.16	−0.06	0.41	0.00	C.	+ 1 43 35.8	0.0	....	...
22.1	Br.	.	11 58 15.90	−0.14	0.40	−0.01	C.	+ 1 12 40.5	+0.4	....	...
26.1	Br.	.	12 15 45.14	−0.02	0.45	+0.04	C.	− 0 51 24.3	+1.0	....	...
28.1	Y.	I	12 24 29.02	+0.06	....	....	C.	− 1 53 31.5	+0.1	....	...
30.1	B.	.	12 33 12.65	−0.03	0.48	+0.06	C.	− 2 55 32.4	+0.8	....	...
Sept. 4.1	L.	.	12 55 4.11	+0.03	0.50	+0.06	C.	− 5 29 40.2	+0.5	....	...
5.1	Y.	I	12 59 27.11	+0.06	....	....	C.	-- 6 0 14.8	+0.2	....	...
6.1	B.	I	13 3 50.24	−0.10	....	....	C.	− 6 30 41.8	+0.9	....	...
7.1	L.	.	13 8 13.97	−0.04	0.45	0.00	.	− 7 1 3.3	−0.1	5.7	−0.9
9.1	Y.	.	13 17	....	....	....	.	− 8 1 20.5	−1.3	6.2	−0.5
16.1	Y.	.	13 48 9.80	+0.03	0.47	0.00	.	−11 26 40.7	−1.3	5.9	−1.0
21.1	Y.	.	14 10 43.99	−0.02	0.30	−0.19	C.	−13 46 19.7	−1.3	....	...
23.1	Y.	.	14 19 51.40	0.00	0.43	−0.07	.	−14 40 9.1	−1.4	6.3	−0.9
24.1	B.	I	14 24 26.35	−0.05	....	....	C.	−15 6 33.3	+0.1	....	...
30.1	Y.	.	14 52 15.99	0.00	0.50	−0.02	.	−17 37 35.1	−0.4	7.0	−0.5
Oct. 1.1	B.	I	14 56 57.58	−0.10	....	....	C.	−18 1 22.0	+0.6	....	...
5.1	L.	.	15 15 54.70	+0.01	0.59	+0.04	.	−19 32 15.5	−1.7	7.8	+0.1
7.1	Br.	.	15 25 29.53	+0.11	0.69	+0.13	C.	−20 14 53.4	−0.5	....	...

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1901			h m s	s	s	s		° ′ ″	″	″	″
Oct. 8.1	B.	I	15 30 18.28	−0.05	....	....	C.	−20 35 27.9	+0.6	....	...
11.1	B.	I	15 44 51.05	−0 09	....	....	C.	−21 34 9.9	+0.9	....	...
15.1	B.	I	16 4 28.17	−0.20	....	....	C.	−22 44 52.5	+0.1	....	...
16.1	L.	.	16 9 24.94	+0.03	0.61	+0.01	C.	−23 1 8.3	−0.8	....	...
18.1	B.	I	16 19 20.39	−0.05	....	....	C.	−23 31 48.9	+2.1	....	...
19.1	Br.	.	16 24 19.34	−0.01	0.65	+0.04	C.	−23 46 18.1	+0.3	....	...
21.1	Br.	.	16 34 19.21	−0.02	0.71	+0.09	C.	−24 13 20.7	+0.7	....	...
22.1	B.	I	16 39 20.09	−0.01	....	....	C.	−24 25 55.6	+0.6	....	...
23.1	L.	I	16 44 21.61	+0.08	....	....	C.	−24 37 53.6	−1.0	....	...
24.1	Br.	I	16 49 23.48	+0.04	....	....	C.	−24 49 10.0	+0.2	....	...
25.1	B.	I	16 54 25.69	−0.11	....	....	.	−24 59 49.0	−0.6	9.1	+0.3
SIX-INCH TRANSIT CIRCLE.											
26.1	L.	.	16 59 28.60	+0.06	0.72	+0.07	.	−25 9 48.3	−1.3	8.9	+0.1
28.1	Br.	.	17 9 34.78	−0.12	0.59	−0.07	.	−25 27 44.3	−0.6	8.8	−0.2
30.1	L.	I	17 19 42.15	+0.09	....	....	.	−25 42 58.3	−0.4	8.9	−0.2
Nov. 2.1	L.	.	17 34 53.34	+0.11	0.95	+0.26	.	−26 0 42.1	−2.1	9.9	+0.5
6.1	L.	.	17 55 5.65	−0.13	0.74	+0.03	.	−26 14 33.5	−0.6	9.7	0.0
7.1	Y.	.	18 0 7.97	−0.04	0.61	−0.11	.	−26 16 17.6	−1.2	9.8	0.0
11.1	Y.	.	18 20 10.64	−0.11	0.64	−0.10	.	−26 16 13.4	−0.5	9.8	−0.3
13.1	L.	.	18 30 7.24	+0.02	0.90	+0.14	.	−26 12 3.8	−1.3	10.1	−0.2
14.1	Y.	I	18 35 3.84	−0.08	....	....	.	−26 8 57.2	−1.3	9.5	−0.9
20.1	L.	.	19 4 17.10	0.00	0.90	+0.08	.	−25 36 17.3	−0.7	10.8	−0.2
22.1	Br.	I	19 13 49.01	−0.08	....	....	.	−25 20 15.1	−1.5	11.2	0.0
25.1	Y.	I	19 27 53.08	−0.05	....	....	.	−24 51 33.8	−0.6	11.0	−0.5
30.1	L.	I	19 50 37.68	−0.03	....	....	.	−23 52 10.7	−1.5	12.0	−0.1
Dec. 2.1	L.	I	19 59 27.14	−0.06	....	....	.	−23 24 35.6	0.0	12.4	0.0
5.1	Br.	I	20 12 22.18	−0.12	....	....	.	22 39	...	....	...
6.1	L.	I	20 16 35.18	−0.11	....	....	.	−22 23 32.0	−1.1	13.1	+0.2
7.1	B.	I	20 20 45.27	−0.21	....	....	.	−22 7 5.3	−0.2	12.9	−0.2
10.1	Br.	I	20 32 58.52	−0.10	....	....	.	−21 15 15.4	−0.5	13.4	−0.1
11.1	L.	I	20 36 56.85	−0.08	....	....	S.	−20 57 12.1	−1.8	....	...
12.1	Br.	I	20 40 51.97	−0.12	....	....	S.	−20 38 44.2	−0.8	....	...
17.1	L.	I	20 59 37.87	−0.08	....	....	S.	−19 1 30.6	−1.4	....	...
24.1	B.	I	21 23 18.71	−0.01	....	....	S.	−16 34 37.4	0.0	....	...
27.1	Br.	I	21 32 24.98	−0.14	....	....	S.	−15 29 14.8	−0.2	....	...
31.1	L.	I	21 43 28.47	−0.15	....	....	S.	−14 1 6.5	−1.7	....	...
1902											
Jan. 2.1	Br.	I	21 48 30.26	−0.08	....	....	S.	−13 16 57.9	−0.3	....	...
3.1	B.	I	21 50 53.08	−0.14	....	....	S.	−12 54 59.1	−1.1	....	...
8.1	L.	I	22 1 21.60	−0.09	....	....	S.	−11 6 43.4	−2.1	....	...
13.1	Br.	I	22 9 10.24	−0.14	....	....	S.	− 9 23 44.2	+0.3	....	...
14.1	B.	I	22 10 22.63	−0.16	....	....	S.	− 9 4 8.3	−0.7	....	...
15.1	L.	I	22 11 27.46	−0.08	....	....	S.	− 8 44 54.9	−0.1	....	...
17.1	B.	I	22 13 13.11	−0.19	....	....	S.	− 8 7 52.0	−1.5	....	...
20.1	Br.	I	22 14 49.27	−0.17	....	....	S.	− 7 16 11.1	+0.4	....	...
28.1	B.	I	22 12 29.27	−0.26	....	....	S.	− 5 29 4.8	−2.9	....	..
Feb. 3.1	Br.	I	22 4 22.82	−0.15	....	....	S.	− 4 46 45.8	−1.8	....	...
5.0	L.	I	22 0 36.62	−0.17	....	....	S.	− 4 41 8.9	−2.1	....	...
6.0	Br.	I	21 58 33.66	−0.10	....	....	S.	− 4 39 57.6	−0.8	....	...
7.0	B.	I	21 56 24.90	−0.05	....	....	S.	− 4 39 53.8	−1.4	....	...
8.0	Br.	I	21 54 10.92	−0.15	....	....	S.	− 4 40 54.7	−1.3	....	...
10.0	Br.	I	21 49 30.98	−0.12	....	....	S.	− 4 46 6.5	−0.4	....	...
14.0	B.	II	21 39 46.77	+0.13	....	....	S.	− 5 8 14.0	0.0	....	...
19.0	L.	II	21 28 6.81	+0.25	....	....	S.	− 5 53 22.3	−0.9	....	...
24.0	Br.	II	21 18 41.80	+0.06	....	....	S.	− 6 49 20.8	+2.2	....	...
28.9	L.	II	21 12 49.05	+0.16	....	....	S.	− 7 46 55.0	+1.3	....	...
Mar. 5.9	Br.	II	21 10 59.91	+0.03	....	....	N.	− 8 38 30.4	+3.0	....	...

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1902			h m s	s	s	s		° ′ ″	″	″	″
Mar. 6.9	Br.	II	21 11 7.33	−0.10	....	....	N.	− 8 47 40.7	+0.9	....	...
9.9	Br.	II	21 12 26.20	+0.09	....	....	N.	− 9 12 11.6	+1.3	....	...
13.9	Br.	II	21 16 13.59	+0.09	....	....	N.	− 9 37 24.9	+1.8	....	...
19.9	Br.	II	21 25 44.08	−0.04	....	....	N.	− 9 57 45.0	−0.9	....	...
20.9	B.	II	21 27 42.77	+0.09	....	....	N.	− 9 58 59.3	−0.8	....	...
23.9	Br.	II	21 34 13.78	+0.12	....	....	N.	− 9 58 58.5	+0.3	....	...
24.9	B.	II	21 36 35.03	+0.07	....	....	N.	− 9 57 43.7	+1.0	....	...
25.9	L.	II	21 39 1.42	+0.08	....	....	N.	− 9 55 53.2	+0.4	....	...
Apr. 11.9	Br.	II	22 30 14.12	−0.03	....	....	N.	− 7 54 56.4	+2.1	....	...
13.9	Br.	II	22 37 7.26	−0.02	....	....	N.	− 7 30 33.5	+1.5	....	...
15.9	Br.	II	22 44 7.75	+0.03	....	....	N.	− 7 4 16.6	+1.2	....	...
23.9	Br.	II	23 13 10.66	+0.07	....	....	N.	− 5 1 38.8	+1.3	....	...
29.9	L.	II	23 35 48.55	+0.08	....	....	N.	− 3 13 37.7	+1.2	....	...
May 1.9	L.	II	23 43 29.01	+0.20	....	....	N.	− 2 35 1.3	+2.1	....	...
4.9	Br.	II	23 55 5.63	+0.01	....	....	N.	− 1 35 0.6	+3.4	....	...
5.9	L.	II	23 58 59.58	+0.11	....	....	N.	− 1 14 32.3	+1.1	....	...
7.9	Br.	II	0 6 49.55	+0.16	....	....	N.	− 0 32 46.8	+3.5	....	...
9.9	S.	II	0 14 42.17	−0.01	....	....	N.	+ 0 9 43.5	−0.6	....	...
13.9	S.	II	0 30 36.23	+0.14	....	....	N.	+ 1 37 7.5	+2.9	....	...
14.9	Br.	II	0 34 36.35	+0.06	....	....	N.	+ 1 59 19.6	+1.3	....	...
21.9	Br.	II	1 2 57.87	+0.09	....	....	N.	+ 4 38 2.3	+1.0	....	...
22.9	L.	II	1 7 4.02	+0.17	....	....	N.	+ 5 1 1.2	+0.9	....	...
25.9	Br.	II	1 19 26.92	+0.10	....	....	N.	+ 6 10 11.2	+1.0	....	...
28.9	Br.	II	1 31 57.35	+0.10	....	....	N.	+ 7 19 24.5	+0.5	....	...
June 2.9	L.	II	1 53 5.63	+0.19	....	....	N.	+ 9 14 5.4	+1.7	....	...
3.9	S.	II	1 57 21.84	+0.04	....	....	N.	+ 9 36 48.0	+1.3	....	...
4.9	L.	II	2 1 39.19	+0.08	....	....	N.	+ 9 59 24.1	+0.5	....	...
5.9	Br.	II	2 5 57.36	−0.01	....	....	N.	+10 21 53.3	−0.5	....	...
8.9	Br.	II	2 18 58.03	+0.04	....	....	N.	+11 28 37.1	+0.9	....	...
9.9	L.	II	2 23 20.24	+0.05	....	....	.	+11 50 32.2	+0.1	8.0	−0.2
11.9	Br.	II	2 32 7.52	−0.19	....	....	N.	+12 33 50.7	−1.6	....	...
12.9	L.	.	2 36 32.94	−0.10	0.64	+0.10	.	+12 55 14.1	−1.1	8.2	+0.2
17.9	S.	II	2 58 56.12	−0.05	....	....	N.	+14 38 50.5	+1.6	....	...
19.9	L.	.	3 8 1.33	−0.09	0.65	+0.12	.	+15 18 29.3	+1.6	8.3	+0.6
23.9	L.	.	3 26 26.07	0.00	0.63	+0.11	.	+16 34 11.5	+0.5	7.6	+0.1
25.9	R.	.	3 35 45.68	+0.06	0.48	−0.04	.	+17 10 5.3	+1.2	7.8	+0.4
30.9	L.	.	3 59 25.70	+0.09	0.54	+0.03	.	+18 33 17.2	−0.4	7.1	−0.1
July 4.9	S.	.	4 18 42.95	+0.01	0.57	+0.07	.	+19 32 25.9	+0.1	7.3	+0.3
8.9	S.	.	4 38 18.18	+0.02	0.51	+0.02	.	+20 24 12.5	−0.3	7.3	+0.4
13.9	R.	.	5 3 10.54	+0.07	0.46	−0.02	.	+21 17 37.3	+0.4	6.7	0.0
14.9	L.	.	5 8 11.89	+0.09	0.56	+0.08	.	+21 26 42.3	+0.6	6.3	−0.4
15.9	S.	.	5 13 14.05	+0.03	0.51	+0.03	.	+21 35 12.8	−0.4	7.1	+0.5
16.9	R.	.	5 18 17.19	+0.09	0.51	+0.04	.	+21 43 11.7	+0.6	7.1	+0.5
17.9	Br.	II	5 23 21.07	+0.07	....	....	.	+21 50 35.0	+0.2	6.4	−0.1
21.9	Br.	II	5 43 44.23	+0.10	....	....	.	+22 14 19.5	−0.4	6.3	−0.1
22.9	S.	.	5 48 51.60	0.00	0.43	−0.03	.	+22 18 48.2	+1.4	6.2	−0.2
23.9	R.	.	5 53 59.71	+0.04	0.38	−0.08	.	+22 22 36.8	−0.6	6.5	+0.1
31.9	L.	.	6 35 19.98	+0.04	0.47	+0.02	.	+22 31 0.0	+0.9	5.7	−0.4
Aug. 1.9	Br.	.	6 40 31.21	+0.04	0.46	+0.02	.	+22 29 12.3	+0.9	6.1	0.0
3.9	R.	.	6 50 53.94	+0.08	0.45	+0.01	.	+22 23 41.2	+0.2	6.5	+0.4
4.9	L.	.	6 56 5.24	+0.04	0.48	+0.04	.	+22 19 58.5	+0.1	5.6	−0.5
6.9	R.	.	7 6 27.69	+0.06	0.39	−0.04	.	+22 10 38.8	+0.3	6.1	+0.1
7.9	L.	.	7 11 38.74	+0.12	0.50	+0.07	.	+22 5 0.8	−0.6	6.2	+0.2
8.9	Br.	II	7 16 49.52	+0.12	....	....	C.	+21 58 47.8	+1.6	....	...
11.9	Br.	.	7 32 20.08	+0.08	0.48	+0.06	.	+21 36 14.2	+0.2	6.1	+0.2
12.9	L.	.	7 37 29.46	−0.02	0.51	+0.09	.	+21 27 27.4	−0.9	6.5	+0.6
17.9	R.	.	8 3 9.71	0.00	0.41	0.00	.	+20 34 27.5	−0.8	6.2	+0.4
18.9	L.	.	8 8 16.04	−0.02	0.52	+0.11	.	+20 22 2.9	−1.2	6.2	+0.4
21.9	L.	.	8 23 31.24	+0.04	0.46	+0.06	.	+19 41 21.9	+0.3	5.1	−0.6
22.9	Br.	.	8 28 34.89	+0.03	0.45	+0.05	.	+19 26 38.6	−0.2	6.0	+0.3

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1902			h m s	s	s	s		° ′ ″	″	″	″
Aug. 24.9	L.	.	8 38 40.00	+0.06	0.52	+0.12	.	+18 55 33.1	+0.3	6.4	+0.7
25.9	Br.	.	8 43 41.37	+0.06	0.45	+0.06	C.	+18 39 12.9	+2.3	....	...
26.9	L.	.	8 48 41.93	+0.04	0.51	+0.12	.	+18 22 17.3	+1.0	5.3	−0.3
27.9	R.	.	8 53 41.57	−0.08	0.39	0.00	.	+18 4 49.9	−0.5	5.2	−0.4
28.9	Br.	.	8 58 40.59	+0.01	0.31	−0.08	.	+17 46 53.4	−0.1	6.0	+0.4
Sept. 5.9	R.	.	9 38 0.87	+0.02	0.37	−0.01	.	+15 5 49.0	−0.4	5.5	0.0
7.9	R.	.	9 47 42.07	−0.01	0.37	−0.01		+14 21 1.6	−3.2	5.7	+0.2
10.9	L.	.	10 2 7.55	+0.04	0.48	+0.11	.	+13 10 56.3	−0.5	5.4	0.0
11.9	S.	.	10 6 54.28	−0.03	0.45	+0.08	.	+12 46 48.4	−0.2	6.0	+0.6
14.9	S.	.	10 21 9.91	−0.02	0.40	+0.04	.	+11 32 16.4	−0.1	6.5	+1.1
18.0	L.	.	10 35 18.85	+0.07	0.43	+0.07	C.	+10 14 47.0	−0.3	....	...
29.0	L.	.	11 26 25.27	+0.06	0.43	+0.08	C.	+ 5 10 28.5	−0.9	....	...
Oct. 1.0	R.	.	11 35 37.02	−0.02	0.30	−0.05	.	+ 4 12 35.6	+0.6	4.9	−0.3
3.0	S.	.	11 44 47.75	+0.01	0.32	−0.03	.	+ 3 14 7.7	+0.1	5.2	0.0
9.0	L.	.	12 12 16.05	−0.06	0.45	+0.11	.	+ 0 16 24.9	−0.9	5.0	−0.2
10.0	S.	.	12 16 50.58	−0.11	0.29	−0.05	.	− 0 13 24.8	−1.0	4.9	−0.3
13.0	L.	.	12 30 34.88	−0.07	0.43	+0.09	.	− 1 42 59.6	−0.1	4.9	−0.2
15.0	R.	.	12 39 45.31	−0.02	0.33	−0.01	.	− 2 42 39.8	+1.9	5.4	+0.3
16.0	L.	.	12 44 20.77	−0.13	0.43	+0.09	C.	− 3 12 29.2	+0.9	....	...
20.0	R.	.	13 2 46.67	−0.06	0.38	+0.04	.	− 5 11 8.9	−0.7	5.9	+0.8
21.0	Br.	.	13 7 24.25	−0.03	0.39	+0.05	C.	− 5 40 35.8	−0.8	....	...
22.0	R.	.	13 12 2.31	−0.04	0.37	+0.03	.	− 6 9 54.7	+0.7	5.9	+0.8
23.0	L.	.	13 16 41.04	+0.04	0.39	+0.05	.	− 6 39 6.6	+1.9	4.6	−0.5
25.0	R.	.	13 26 0.06	−0.08	0.30	−0.04	.	− 7 37 9.6	−0.2	4.9	−0.2
28.0	Br.	.	13 40 3.94	−0.06	0.41	+0.07	C.	− 9 2 54.6	+1.6	....	...
29.0	L.	.	13 44 46.69	−0.11	0.41	+0.07	C.	− 9 31 7.7	+1.0	....	...
30.0	L.	.	13 49 30.37	−0.03	0.41	+0.07	.	− 9 59 8.4	0.0	4.8	−0.3
31.0	Br.	.	13 54 14.86	+0.01	0.42	+0.08	.	−10 26 56.2	−1.8	5.0	−0.1
Nov. 1.0	R.	.	13 59 0.21	+0.04	0.26	−0.08	S.	−10 54 26.8	−0.8	....	...
3.0	L.	.	14 8 33.60	+0.03	0.40	+0.06	C.	−11 48 43.3	−0.8	....	...
10.0	L.	.	14 42 32.15	−0.06	0.44	+0.10	.	−14 49 6.6	−0.3	4.8	−0.2
Dec. 18.0	L.	.	18 2 43.58	−0.04	0.46	+0.09	C.	−23 58 25.7	−0.3	....	...
19.0	Br.	.	18 8 14.35	−0.05	0.42	+0.05	C.	−23 59 57.2	−0.1	....	...
26.0	Br.	.	18 46 48.84	−0.01	0.35	−0.02	C.	−23 49 43.7	+0.9	....	...
27.0	R.	.	18 52 18.45	−0.10	0.27	−0.10	.	−23 45	...	....	...
30.0	Br.	.	19 8 44.78	−0.04	0.39	+0.02	C.	−23 27 34.6	+0.7	....	...
1903											
Jan. 9.0	Br.	C.	20 2 44.05	−0.09	....	....	C.	−21 42 24.1	+0.6	....	...
12.0	L.	.	20 18 36.34	−0.10	0.44	+0.08	C.	−20 57 47.6	+0.2	....	...
13.0	Br.	.	20 23 51.40	−0.14	0.38	+0.02	C.	−20 41 40.6	−0.1	....	...
15.0	L.	.	20 34 18.10	0.00	0.43	+0.07	C.	−20 7 36.1	+0.5	....	...
16.0	Br.	.	20 39 29.54	+0.02	0.32	−0.04	C.	−19 49 41.0	+0.4	....	...
19.0	L.	.	20 54 56.20	0.00	0.50	+0.14	C.	−18 52 29.8	+1.4	....	...
21.0	R.	.	21 5 7.53	−0.05	0.29	−0.07	.	−18 11 41.3	−0.3	5.2	0.0
31.1	R.	.	21 54 47.16	−0.09	0.36	0.00	.	−14 18 34.7	−0.1	5.1	−0.1
Feb. 9.1	L.	.	22 37 45.65	−0.13	0.49	+0.13	C.	−10 15 27.1	−2.0	....	...
10.1	Br.	I	22 42 26.84	−0.13	....	....	.	− 9 46 53.8	−0.5	4.9	−0.4
12.1	L.	.	22 51 46.57	0.00	0.49	+0.13	C.	− 8 49 6.8	−2.2	....	...
13.1	Br.	.	22 56 25.00	−0.04	0.33	−0.03	C.	− 8 19 48.6	+0.6	....	...
18.1	R.	.	23 19 25.73	+0.03	0.29	−0.07	.	− 5 50 32.0	+0.7	5.5	+0.1
19.1	L.	.	23 23 59.77	−0.01	0.44	+0.08	C.	− 5 20 10.0	+0.8	....	...
24.1	Br.	.	23 46 42.05	−0.07	0.41	+0.05	C.	− 2 46 30.1	−0.9	....	...
25.1	R.	.	23 51 13.16	−0.09	0.32	−0.05	.	− 2 15 29.2	−1.4	6.0	+0.5
26.1	L.	.	23 55 43.98	−0.06	0.45	+0.08	C.	− 1 44 24.4	−2.0	....	...
Mar. 3.1	Br.	.	0 18 13.96	−0.25	0.32	−0.05	C.	+ 0 51 37.1	+0.6	....	...
13.1	Br.	.	1 3 11.72	−0.02	0.37	−0.01	C.	+ 6 1 20.0	−0.1	....	...
14.1	R.	.	1 7 42.45	−0.04	0.34	−0.04	.	+ 6 31 45.9	−1.0	7.4	+1.7
18.1	R.	.	1 25 49.37	−0.02	0.37	−0.02	.	+ 8 31 59.3	−2.1	5.9	+0.1
25.1	R.	.	1 57 52.32	−0.03	0.34	−0.06	.	+11 54 33.2	−0.9	6.3	+0.3
26.1	L.	I	2 2 29.65	−0.13	....	....	C.	+12 22 28.3	−1.1	....	...

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1903			h m s	s	s	s		° ′ ″	″	″	″
Mar. 27.1	L.	I	2 7 7.95	−0.03	....	....	C.	+12 50 6.9	−0.3	....	...
Apr. 9.1	L.	.	3 8 43.87	+0.01	0.53	+0.09	.	+18 17 11.3	−1.5	6.0	−0.2
10.1	Br.	.	3 13 34.58	−0.15	0.41	−0.04	C.	+18 39 29.4	+0.9	....	...
17.1	Br.	.	3 47 58.03	−0.05	0.52	+0.05	.	+21 1 27.4	+0.5	6.0	−0.5
18.1	R.	.	3 52 56.70	+0.02	0.45	−0.02	.	+21 19 35.9	−1.0	7.6	+1.1
21.1	L.	.	4 7 57.92	+0.04	0.61	+0.13	.	+22 10 41.8	−0.8	6.7	+0.1
24.1	Br.	.	4 23 6.71	−0.02	0.52	+0.03	C.	+22 56 31.8	+1.4	....	...
27.1	L.	.	4 38 22.39	+0.04	0.60	+0.10	.	+23 36 45.4	−0.6	7.1	+0.3
28 1	Br.	.	4 43 28.88	0.00	0.64	+0.14	C.	+23 48 57.0	+1.9	....	...
30.1	L.	.	4 53 43.60	+0.02	0.64	+0.13	.	+24 11 15.6	−0.8	6.8	−0.1
May 1.1	Br.	.	4 58 51.65	−0.02	0.60	+0.09	.	+24 21 26.6	−1.1	8.0	+1.0
2.1	R.	.	5 4 0.24	+0.06	0.50	−0.01	.	+24 30 59.1	0.0	7.2	+0.2
6.1	R.	.	5 24 37.14	−0.11	0.47	−0.06	.	+25 2 19.4	−0.5	7.4	+0.2
7.1	L.	I	5 29 46.90	−0.05	....	....	.	+25 8 27.1	−0.4	6.7	−0.5
8.1	Br.	.	5 34 56.59	−0.09	0.58	+0.05	.	+25 13 52.2	−1.4	7.1	−0.2
9.1	R.	.	5 40 6.37	−0.02	0.51	−0.02	.	+25 18 38.5	+0.3	7.0	−0.3
13.1	R.	I	6 0 43.85	+0.02	....	....	N.	+25 30 39.4	+0.6	....	...
15.1	Br.	.	6 11 0.74	−0.05	0.51	−0.04	C.	+25 32 28.7	+0.7	....	...
19.1	L.	I	6 31 28.43	−0.08	....	....	.	+25 27 46.9	+0.1	7.1	−0.6
21.1	L.	I	6 41 38.08	−0.10	....	....	.	+25 21 19.8	+0.8	7.8	0.0
June 3.1	R.	.	7 45 53.95	+0.03	0.63	0.00	.	+23 35 29.6	−0.7	8.5	−0.1
4.1	L.	I	7 50 40.46	−0.10	....	....	.	+23 23 3.7	−0.3	8.1	−0.6
12.1	Br.	I	8 27 49.39	−0.12	....	....	.	+21 23 58.7	−0.1	9.1	−0.1
15.1	L.	I	8 41 13.78	−0.07	....	....	.	+20 31 4.6	+0.4	9.2	−0.3
16.1	Br.	I	8 45 37.83	−0.10	....	....	.	+20 12 31.6	+0.1	9.7	+0.1
18.1	L.	I	8 54 19.75	−0.15	....	....	.	+19 34 8.5	−0.5	9.3	−0.5
19.1	Br.	I	8 58 37.62	−0.14	....	....	.	+19 14 21.1	+0.5	9.9	0.0
30.1	Br.	I	9 43 31.59	−0.14	....	....	N.	+15 13 6.3	+0.9	....	...
July 1.1	R.	I	9 47 23.12	−0.05	....	....	.	+14 49	...	....	...
3.1	Br.	I	9 54 58.85	−0.16	....	....	N.	+14 1 15.1	+1.4	....	...
7.1	Br.	I	10 9 41.85	−0.09	....	....	N.	+12 22 28.6	−0.4	....	...
8.1	R.	I	10 13 16.52	−0.05	....	....	N.	+11 57 22.2	+0.7	....	...
9.1	L.	I	10 16 48.55	−0.16	....	....	N.	+11 32 4.8	−0.3	....	...
10.1	Br.	I	10 20 18.21	−0.13	....	....	N.	+11 6 39.6	−1.0	....	...
11.1	R.	I	10 23 45.40	−0.04	....	....	N.	+10 41 8.4	−0.1	....	...
14.1	Br.	I	10 33 51.08	−0.14	....	....	N.	+ 9 23 56.3	−0.4	....	...
15.1	L.	I	10 37 7.79	−0.09	....	....	N.	+ 8 58 3.0	−0.4	....	...
16.1	L.	I	10 40 21.77	−0.08	....	....	N.	+ 8 32 4.8	−2.0	....	...
17.1	Br.	I	10 43 33.05	−0.06	....	....	N.	+ 8 6 5.8	−1.6	....	...
20.1	L.	I	10 52 50.04	−0.04	....	....	N.	+ 6 48 1.3	+0.1	....	...
21.1	Br.	I	10 55 49.81	−0.18	....	....	N.	+ 6 21 59.5	+0.1	....	...
23.1	L.	I	11 1 40.71	−0.13	....	....	N.	+ 5 30 3.4	+1.6	....	...
25.1	R.	I	11 7 19.18	−0.06	....	....	N.	+ 4 38 19.9	+1.8	....	...
28.1	Br.	I	11 15 21.94	−0.12	....	....	N.	+ 3 21 25.5	+0.5	....	...
30.1	L.	I	11 20 26.21	−0.08	....	....	N.	+ 2 30 49.2	−0.8	....	...
Aug. 5.1	R.	I	11 34 4.16	−0.09	....	....	N.	+ 0 3 56.4	+0.8	....	...
7.1	Br.	I	11 38 1.69	−0.20	....	....	N.	− 0 42 52.4	+1.2	....	...
10.1	L.	I	11 43 21.41	−0.15	....	....	N.	− 1 50 29.4	+0.6	....	...
12.1	R.	I	11 46 28.06	−0.16	....	....	N.	− 2 33 31.0	+0.8	....	...
17.1	R.	I	11 52 31.99	−0.12	....	....	N.	− 4 12 16.6	+2.5	....	...
21.1	R.	I	11 55 25.13	−0.20	....	....	N.	− 5 20 12.0	+1.1	....	...
22.1	Br.	I	11 55 50.46	−0.21	....	....	N.	− 5 35 19.9	+0.3	....	...
24.1	R.	I	11 56 18.40	−0.14	....	....	N.	− 6 3 2.7	+0.6	....	...
25.1	Br.	I	11 56 20.44	−0.27	....	....	N.	− 6 15 33.7	+0.5	....	...
Sept. 3.0	L.	I	11 50 30.60	−0.29	....	....	N.	− 7 19 46.3	+0.8	....	...
4.0	R.	I	11 49 11.37	−0.12	....	....	N.	− 7 20 45.4	+1.1	....	...

MARS.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
NINE-INCH TRANSIT CIRCLE.											
1900			h m s	s	s	s		° ′ ″	″	″	″
Oct. 15.8	Hh.	C.	8 56 35.08	+0.03	....	....	C.	+18 40 7.7	−0.4	....	...
16.8	Br.	C.	8 58 49.80	+0.03	....	....	C.	+18 32 0.1	+0.1	....	...
Nov. 12.8	Hd.	.	9 54 5.20	−0.02	0.45	+0.19	C.	+14 45 44.4	+0.2	....	...
Dec. 10.7	Hh.	.	10 37 55.36	0.00	0.28	−0.03	C.	+11 25 29.3	0.0	....	...
11.7	Br.	.	10 39 9.53	−0.05	0.37	+0.06	.	+11 19	...	....	...
13.7	Br.	.	10 41 33.12	−0.06	0.42	+0.10	C.	+11 9 29.0	+0.1	....	...
14.7	Hh.	.	10 42 42.41	−0.07	0.35	+0.03	C.	+11 4 28.2	−0.4	....	...
15.7	B.	.	10 43 50.12	+0.07	0.43	+0.11	C.	+10 59 38.7	0.0	....	...
1901											
Jan. 7.7	Hh.	.	11 0 26.95	−0.16	0.37	−0.01	C.	+10 6 19.4	+0.2	....	...
8.7	B.	.	11 0 42.55	+0.09	0.50	+0.11	C.	+10 6 55.6	−0.5	....	...
9.7	Hh.	.	11 0 54.90	−0.24	0.50	+0.11	C.	+10 7 48.3	−1.3	....	...
12.6	B.	.	11 1	....	....	....	C.	+10 12 10.8	−0.4	....	...
Feb. 4.6	Hh.	.	10 49 19.84	−0.18	0.63	+0.15	C.	+12 8 19.8	0.0	....	...
6.6	Hh.	.	10 47 5.94	−0.13	0.51	+0.03	C.	+12 24 10.4	−0.1	....	...
Mar. 5.5	Hd.	.	10 8 20.43	−0.13	0.49	−0.01	C.	+15 58 39.7	+0.6	....	...
6.5	Br.	.	10 6 58.14	−0.14	0.60	+0.10	C.	+16 4 22.7	+0.8	....	...
Apr. 1.4	La.	.	9 46 7.64	0.00	0.52	+0.09	.	+16 51 17.8	0.0	7.3	+1.1
26.3	B.	.	9 55 46.38	+0.08	0.37	+0.03	.	+15 0 5.0	+0.9	5.6	+0.6
27.3	Br.	.	9 56 38.98	−0.03	0.38	+0.04	C.	+14 53 15.4	+1.1	....	...
29.3	La.	.	9 58 30.04	+0.07	0.48	+0.15	C.	+14 39 7.7	+0.7	....	...
30.3	B.	.	9 59 28.24	+0.11	0.41	+0.08	C.	+14 31 50.7	+1.1	....	...
June 18.2	B.	.	11 12 6.54	+0.05	0.29	+0.05	C.	+ 6 2 29.7	+0.8	....	...
19.2	Y.'	.	11 13 56.70	+0.01	0.23	0.00	C.	+ 5 49 34.5	+0.9	....	...
21.2	B.	.	11 17 38.95	+0.07	0.29	+0.06	C.	+ 5 23 28.2	−0.9	....	...
SIX-INCH TRANSIT CIRCLE.											
1902											
Oct. 22.8	L.	.	10 9 37.20	+0.07	0.25	+0.07	C.	+12 57 15.5	−0.5	....	...
24.8	R.	.	10 14 4.88	+0.05	0.18	0.00	C.	+12 33 56.2	−0.4	....	...
Nov. 22.8	R.	II	11 14 50.73	+0.02	....	....	C.	+ 6 51 59.5	+0.3	....	...
Dec. 17.8	R.	.	12 0 42.41	+0.06	0.29	+0.05	.	+ 2 18 22.1	+1.2	5.2	+1.6
18.8	L.	.	12 2 23.26	−0.10	0.37	+0.13	C.	+ 2 8 19.6	0.0	....	...
21.8	Br.	.	12 7 21.55	0.00	0.46	+0.22	C.	+ 1 38 49.7	+0.1	....	...
22.8	R.	.	12 8 59.28	0.00	0.26	+0.01	.	+ 1 29 12.1	+0.8	4.1	+0.4
1903											
Jan. 15.7	L.	.	12 42 57.84	−0.10	0.36	+0.06	.	− 1 45 35.0	−0.6	5.1	+0.6
17.7	R.	.	12 45 15.99	+0.02	0.33	+0.03	.	− 1 58 2.0	+0.5	5.7	+1.2
18.7	Br.	.	12 46 22.75	−0.01	0.33	+0.02	.	− 2 4 1.1	+0.1	5.0	+0.4
Feb. 13.6	Br.	.	13 4 24.72	−0.07	0.50	+0.10	C.	− 3 28 57.6	+1.2	....	...
Mar. 13.6	Br.	.	12 52 4.03	−0.19	0.47	−0.02	.	− 1 57 12.2	+0.6	7.4	+0.1
14.6	R.	I	12 50 58.04	−0.14	....	....	S.	− 1 50 32.4	+1.4	....	...
17.5	Br.	.	12 47 26.54	−0.19	0.53	+0.02	.	− 1 29 36.5	+1.7	7.6	+0.1
Apr. 9.5	L.	.	12 15 16.03	−0.27	0.64	+0.12	.	+ 1 20 51.1	+0.8	8.2	+0.4
10.5	Br.	.	12 13 56.72	−0.18	0.54	+0.02	.	+ 1 26 57.7	+1.2	8.4	+0.6
26.4	R.	.	11 57 36.25	−0.18	0.50	+0.02	.	+ 2 28 40.7	+1.3	8.5	+1.3
27.4	L.	.	11 56 57.11	−0.19	0.56	+0.08	.	+ 2 30 0.1	+1.0	7.3	+0.1
28.4	Br.	.	11 56 20.94	−0.15	0.56	+0.08	.	+ 2 31 1.3	+1.3	8.7	+1.6
29.4	L.	.	11 55 47.65	−0.17	0.53	+0.05	.	+2 31 43.2	+1.0	7.3	+0.2
May 4.4	L.	.	11 53 45.51	−0.23	0.52	+0.06	.	+2 30 38.3	+2.2	7.3	+0.4
5.4	Br.	.	11 53 29.87	−0.25	0.43	−0.03	C.	+2 29 30.7	+2.0	....	...
6.4	R.	.	11 53 17.23	−0.17	0.46	+0.01	.	+2 28 5.7	+2.2	7.3	+0.5
7.4	L.	.	11 53 7.34	−0.22	0.54	+0.09	.	+2 26 22.4	+1.6	7.1	+0.4
8.4	Br.	.	11 53 0.40	−0.17	0.46	+0.01	.	+2 24 22.4	+1.5	7.2	+0.5
9.4	R.	.	11 52 56.23	−0.17	0.41	−0.04	.	+2 22 5.6	+1.7	6.8	+0.1
28.3	L.	.	11 59 48.66	−0.20	0.43	+0.04	.	+0 50 26.4	+1.7	6.2	+0.5
June 2.3	Br.	.	12 3 55.09	−0.16	0.37	0.00	.	+0 13 4.1	+1.6	5.6	+0.1
3.3	R.	.	12 4 50.36	−0.10	0.39	+0.02	.	+0 5 0.4	−0.1	5.6	+0.1
4.3	L.	.	12 5 47.34	−0.20	0.40	+0.03	.	−0 3 11.0	+1.0	5.1	−0.3
July 1.3	R.	I	12 41 25.95	−0.07	....	.....	C.	−4 38 39.5	+1.0	....	...

JUPITER.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1900			h m s	s	s	s		° ′ ″	″	″	″
May 14.5	Br.	.	16 23 44.18	−0.10	1.62	−0.01	.	−20 41 17.8	−0.7	22.0	+0.4
15.5	Hd.	.	16 23 13.94	+0.12	1.64	+0.01	.	−20 40 9.2	+1.1	21.1	−0.5
16.5	Br.	.	16 22 43.04	−0.07	1.68	+0.04	.	−20 39 1.4	+1.4	21.3	−0.4
17.5	Hd.	.	16 22 12.27	+0.11	1.63	−0.01	.	−20 37 54.1	+0.5	21.4	−0.3
June 8.5	Ei.	.	16 10 35.76	+0.08	1.62	−0.02	.	−20 11 36.0	+0.9	22.3	+0.7
11.5	Ei.	.	16 9 5.67	−0.04	1.64	+0.01	.	−20 8 8.5	0.0	21.3	−0.3
July 6.4	Ei.	.	15 59 12.57	−0.06	1.56	−0.01	.	−19 45 41.3	+0.3	21.5	+0.8
8.4	B.	.	15 58 41.24	+0.03	1.70	+0.14	.	−19 44	...	....	...
13.4	Ei.	.	15 57 34.93	+0.03	1.58	+0.04	.	−19 42 32.5	−0.4	21.0	+0.6
14.4	Ei.	.	15 57 23.82	+0.06	1.56	+0.02	.	−19 42 14.0	−0.7	20.9	+0.6
16.3	Ei.	.	15 57 3.70	0.00	1.56	+0.03	.	−19 41 42.3	−0.3	21.1	+0.9
27.3	Ei.	.	15 56 6.70	+0.06	1.46	−0.03	.	−19 41 26.8	+0.4	20.2	+0.6
1901											
May 5.7	B.	.	18 56 29.16	+0.05	1.66	+0.10	.	−22 39	...	....	...
June 3.6	La.	.	18 49 2.05	+0.05	1.78	+0.10	.	−22 52 31.6	+0.2	22.6	+0.8
4.6	B.	.	18 48 36.65	+0.13	1.72	+0.04	.	−22 53 8.7	+0.4	22.0	+0.1
5.6	Br.	.	18 48 10.46	−0.04	1.79	+0.10	.	−22 53 45.1	+1.8	24.2	+2.3
9.6	B.	.	18 46 21.30	+0.05	1.78	+0.08	.	−22 56 19.6	+1.8	21.0	−1.1
18.5	B.	.	18 41 50.43	+0.10	1.78	+0.06	.	−23 2 19.8	−0.1	22.2	−0.1
23.5	B.	.	18 39 9.12	−0.07	1.94	+0.21	.	−23 5 36.1	+0.9	23.4	+1.0
29.5	Br.	.	18 35 50.84	−0.05	1.80	+0.07	.	−23 9 24.6	+0.2	24.8	+2.4
30.5	B.	.	18 35 17.63	0.00	1.83	+0.10	.	−23 9 59.4	+2.1	23.4	+1.0
July 1.5	Y.	.	18 34 44.45	+0.07	1.66	−0.07	.	−23 10 36.7	+1.1	22.5	+0.1
3.5	Br.	.	18 33 37.89	−0.05	1.69	−0.04	.	−23 11 47.6	+1.5	23.0	+0.6
9.5	B.	.	18 30 21.05	0.00	1.80	+0.07	.	−23 15 10.3	+0.1	22.8	+0.4
21.4	B.	.	18 24 14.32	−0.06	1.77	+0.06	.	−23 20	...	....	...
29.4	Y.	.	18 20 44.98	+0.08	1.65	−0.04	.	−23 23 46.9	+1.1	22.6	+0.7
30.4	B.	.	18 20 21.28	+0.04	1.78	+0.09	.	−23 24 8.3	−0.7	22.7	+0.9
Aug. 26.3	Br.	.	18 14 10.12	−0.02	1.65	+0.06	.	−23 29 59.2	+1.4	21.7	+1.2
SIX-INCH TRANSIT CIRCLE.											
1902											
May 25.7	R.	.	21 18 54.34	+0.06	1.41	−0.06	.	−16 19 54.5	−0.2	19.4	−0.6
27.7	L.	.	21 19 9.70	+0.07	1.53	+0.05	.	−16 19 12.4	+1.1	20.2	+0.1
29.7	Br.	.	21 19 22.01	0.00	1.47	−0.02	.	−16 18 46.2	+0.3	20.2	−0.1
June 21.6	S.	.	21 18 7.65	+0.06	1.62	+0.02	.	−16 30 16.3	−0.4	22.7	+1.1
23.6	R.	.	21 17 42.70	+0.05	1.59	−0.02	.	−16 32 38.3	+1.3	21.8	0.0
24.6	L.	.	21 17 29.12	0.00	1.69	+0.07	.	−16 33 56.2	−0.1	22.0	+0.1
July 17.6	R.	.	21 9 24.06	+0.12	1.72	+0.02	.	−17 15 19.0	−0.5	23.9	+1.0
22.5	Br.	.	21 7	....	....	....	.	−17 26 28.0	+0.1	23.6	+0.6
Aug. 16.5	Br.	.	20 54 16.50	−0.05	1.70	−0.03	.	−18 23 27.4	+0.5	24.0	+0.9
18.5	R.	.	20 53 17.06	0.00	1.72	−0.01	.	−18 27 38.5	−0.6	23.0	−0.1
Sept. 10.4	S.	.	20 43 53.24	−0.03	1.64	−0.04	.	−19 5 11.8	+2.0	22.6	+0.4
11.4	L.	.	20 43 35.60	−0.03	1.70	+0.03	.	−19 6 19.6	+0.8	22.2	0.0
12.4	S.	.	20 43 18.68	0.00	1.61	−0.06	.	−19 7 23.2	+0.9	22.6	+0.5
13.4	L.	.	20 43 2.40	−0.04	1.72	+0.06	.	−19 8 23.0	+1.8	22.5	+0.4
14.4	L.	.	20 42 46.91	0.00	1.70	+0.04	.	−19 9 22.9	−0.3	22.1	+0.1
1903											
June 17.7	R.	.	23 33 26.64	+0.07	1.34	−0.05	.	− 4 9 44.4	+1.0	18.8	−0.6
July 14.7	Br.	.	23 37 30.70	0.00	1.50	−0.01	.	− 3 52 18.4	+1.5	22.0	+0.8
15.7	R.	.	23 37 30.04	+0.09	1.48	−0.04	.	− 3 52 42.5	+2.0	21.4	+0.1
16.7	L.	.	23 37 28.48	−0.01	1.52	0.00	.	− 3 53 13.4	+0.3	21.6	+0.3
Aug. 9.6	Br.	.	23 33 23.01	−0.06	1.60	−0.03	.	− 4 26 55.5	+1.0	23.1	+0.3
11.6	Br.	.	23 32 45.70	+0.02	1.62	−0.01	.	− 4 31 27.4	+1.8	23.8	+0.9
12.6	R.	.	23 32 26.14	+0.03	1.62	−0.02	.	− 4 33 49.6	+0.9	23.2	+0.2

SATURN.*

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
NINE-INCH TRANSIT CIRCLE.											
1900			h m s	s	s	s		° ′ ″	″	″	″
May 15.6	Hd.	.	18 18 19.23	−0.01	0.62	−0.03	.	−22 21 36.3	−0.5	8.8	...
17.6	Hd.	.	18 17 53.89	+0.07	0.64	−0.01	.	−22 21 47.9	+0.1	8.8	...
June 11.5	Ei.	.	18 11 10.42	−0.03	0.72	+0.06	.	−22 24 58.9	+0.6	9.8	...
July 9.5	Ei.	.	18 2 26.23	−0.05	0.70	+0.04	.	−22 28 49.2	−0.9	10.4	...
11.4	Ei.	.	18 1 51.05	+0.01	0.72	+0.06	.	−22 29 3.9	−0.2	10.3	...
14.4	Ei.	.	18 0 59.40	−0.06	0.72	+0.06	.	−22 29 26.8	−0.3	9.9	...
24.4	Ei.	.	17 58 21.26	−0.05	0.62	−0.04	.	−22 30 40.9	+0.9	9.6	...
Aug. 4.4	B.	.	17 55 58.72	−0.15	0.70	+0.05	.	−22 32 3.9	+0.9	9.2	...
6.4	Ei.	.	17 55 37.07	−0.10	0.70	+0.05	.	−22 32 20.2	0.0	9.8	...
8.4	Ei.	.	17 55 16.82	−0.05	0.64	−0.01	.	−22 32 35.9	−0.1	9.8	...
9.4	Br.	.	17 55 7.24	−0.02	0.68	+0.03	.	−22 32 43.1	+0.6	9.9	...
11.4	La.	.	17 54 49.05	−0.06	0.63	−0.01	.	−22 32 58.4	+1.3	9.8	...
1901											
May 5.7	B.	.	19 10 28.94	+0.14	0.66	+0.03	.	−21 55 51.2	+1.7	9.8	...
June 3.6	La.	.	19 5 51.39	−0.01	0.59	−0.06	.	−22 4 39.6	+0.8	10.1	...
4.6	B.	.	19 5 37.04	+0.09	0.67	+0.02	.	−22 5 6.2	+0.3	9.2	...
5.6	Br.	.	19 5 22.27	+0.03	0.74	+0.09	.	−22 5 32.7	+0.3	11.2	...
9.6	B.	.	19 4 20.88	+0.03	0.78	+0.12	.	−22 7 20.9	+1.6	11.4	...
19.5	B.	.	19 1 32.29	+0.09	0.70	+0.04	.	−22 12 15.8	+0.5	9.6	...
23.5	B.	.	19 0 19.97	−0.15	0.73	+0.06	.	−22 14 18.4	+0.6	8.6	...
29.5	Br.	.	18 58 28.87	−0.02	0.72	+0.05	.	−22 17 24.5	+0.7	11.2	...
30.5	B.	.	18 58 10.26	+0.15	0.78	+0.11	.	−22 17 55.8	+0.5	9.8	...
July 1.5	Y.	.	18 57 51.32	+0.03	0.66	−0.01	.	−22 18 26.1	+1.3	10.2	...
3.5	Br.	.	18 57 13.63	+0.10	0.74	+0.07	.	−22 19 28.9	+0.6	11.0	...
29.4	Y.	.	18 49 23.11	+0.02	0.59	−0.07	.	−22 31 59.4	+0.6	11.1	...
30.4	B.	.	18 49 7.04	+0.06	0.77	+0.11	.	−22 32 25.0	+0.4	9.8	...
31.4	Br.	.	18 48 51.07	−0.02	0.76	+0.10	.	−22 32 48.7	+1.7	9.8	...
Aug. 26.4	Br.	.	18 43 39.46	+0.01	0.70	+0.06	.	−22 41 29.8	+0.5	8.6	...
SIX-INCH TRANSIT CIRCLE.											
1902											
May 25.7	R.	.	19 58 27.36	+0.01	0.62	−0.01	.	−20 39 51.1	0.0	....	...
29.6	Br.	.	19 57 56.05	−0.02	0.65	+0.01	.	−20 41 39.2	+0.7	....	...
June 21.6	S.	.	19 53 13.83	−0.01	0.70	+0.05	.	−20 56 39.0	−1.4	....	...
23.6	R.	.	19 52 42.38	−0.08	0.66	+0.01	.	−20 58 13.8	−1.0	....	...
24.6	L.	.	19 52	....	....	....	.	−20 59 2.5	−1.5	....	...
July 17.5	R.	.	19 45 37.78	0.00	0.62	−0.04	.	−21 18 45.4	−0.2	....	...
22.5	Br.	.	19 44 4.95	+0.02	0.70	+0.04	.	−21 23 2.9	+0.5	....	...
Aug. 16.4	Br.	.	19 36 59.54	−0.12	0.74	+0.08	.	−21 42 7.7	+0.5	....	...
17.4	L.	.	19 36 45.20	0.00	0.72	+0.06	.	−21 42 46.0	+0.4	....	...
18.4	R.	.	19 36 30.93	−0.07	0.63	−0.03	.	−21 43 23.6	+0.3	....	...
Sept. 10.3	S.	.	19 32 31.85	−0.04	0.70	+0.06	.	−21 54 5.2	+1.2	....	...
11.3	L.	.	19 32 25.79	−0.04	0.69	+0.05	.	−21 54 23.4	+0.6	....	...
12.3	S.	.	19 32 20.09	−0.07	0.66	+0.02	.	−21 54 39.7	+1.0	....	...
13.3	L.	.	19 32 14.86	−0.04	0.69	+0.05	.	−21 54 55.5	+1.0	....	...
14.3	L.	.	19 32 10.04	0.00	0.65	+0.01	.	−21 55 11.0	+0.4	....	...
Oct. 9.3	L.	.	19 32 22.72	−0.06	0.62	+0.01	.	−21 56 21.8	0.0	....	...
1903											
June 10.6	R.	.	20 46 6.04	−0.03	0.58	−0.05	.	−18 32 59.8	+0.9	8.3	−0.1
14.6	Br.	.	20 45 30.66	0.00	0.64	0.00	.	−18 35 50.4	−0.8	8.6	+0.1
July 10.6	Br.	.	20 39 44.26	−0.03	0.70	+0.05	.	−19 1 1.0	0.0	8.4	−0.3
11.6	R.	.	20 39 27.83	+0.01	0.65	0.00	.	−19 2 9.3	0.0	8.2	−0.5
13.6	L.	.	20 38 54.38	0.00	0.66	+0.01	.	−19 4 28.2	−0.9	7.8	−0.9
Aug. 7.5	Br.	.	20 31 28.26	−0.01	0.74	+0.08	.	−19 33 54.4	−1.0	8.0	−0.7
9.5	Br.	.	20 30 52.66	−0.07	0.70	+0.04	.	−19 36 10.0	−1.2	8.4	−0.3
20.4	Br.	.	20 27 45.76	−0.05	0.74	+0.08	.	−19 47 50.2	−0.7	8.7	0.0

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* In 1900 and 1901 the ring was observed in declination.

SATURN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1903			h m s	s	s	s		° ′ ″	″	″	″
Aug. 21.4	R.	.	20 27 29.68	−0.10	0.60	−0.06	.	−19 48 48.9	−0.3	8.6	−0.1
22.4	Br.	.	20 27 13.92	−0.02	0.74	+0.08	.	−19 49 47.2	−0.3	8.8	+0.1
24.4	R.	.	20 26 42.87	−0.03	0.61	−0.04	.	−19 51 41.2	−0.4	8.1	−0.5
25.4	Br.	.	20 26 27.66	−0.05	0.72	+0.07	.	−19 52 36.0	+0.4	9.0	+0.4
Sept. 1.4	L.	.	20 24 48.37	+0.03	0.71	+0.06	.	−19 58 38.0	−0.6	7.8	−0.8
2.4	R.	.	20 24 35.17	−0.05	0.65	0.00	.	−19 59 25.2	−0.5	7.8	−0.8
3.4	L.	.	20 24 22.28	−0.11	0.64	−0.01	.	−20 0 11.4	−0.5	8.2	−0.4
4.4	R.	.	20 24 9.80	−0.05	0.64	−0.01	.	−20 0 56.6	−0.7	8.0	−0.6

URANUS.

NINE-INCH TRANSIT CIRCLE.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1900											
May 15.5	Hd.	C.	16 38 20.60	+0.14	....	....	C.	−22 4 38.6	+0.1	....	...
17.5	Hd.	C.	16 38 0.72	+0.35	....	....	C.	−22 4 0.7	−0.1	....	...
June 8.5	Ei.	C.	16 34 10.92	+0.25	....	....	C.	−21 56 33.8	−0.1	....	...
9.5	B.	C.	16 34 0.57	+0.29	....	....	C.	−21 56 14.8	−1.8	....	...
July 6.4	Ei.	C.	16 29 47.75	+0.24	....	....	C.	−21 47 39.6	+0.1	....	...
8.4	B.	C.	16 29 32.08	+0.05	....	....	C.	−21 47 7.6	+0.1	....	...
9.4	Ei.	C.	16 29 24.83	+0.32	....	....	C.	−21 46 52.4	−0.3	....	...
13.4	Ei.	C.	16 28 56.31	+0.33	....	....	C.	−21 45 53.3	−0.3	....	...
14.4	Ei.	C.	16 28 49.51	+0.27	....	....	C.	−21 45 39.1	0.0	....	...
16.4	Ei.	C.	16 28 36.58	+0.32	....	....	C.	−21 45 12.6	−0.4	....	...
27.3	Ei.	C.	16 27 37.59	+0.14	....	....	C.	−21 43 11.4	−0.1	....	...
1901											
Apr. 9.7	B.	C.	17 2 24.52	+0.31	....	....	C.	−22 47 58.2	−0.2	....	...
10.7	Br.	C.	17 2 20.31	+0.31	....	....	C.	−22 47 53.2	−0.4	....	...
May 3.6	B.	C.	16 59 52.69	+0.30	....	....	C.	−22 44 37.7	+1.4	....	...
4.6	Br.	C.	16 59 44.33	+0.28	....	....	C.	−22 44 28.4	−0.7	....	...
5.6	B.	C.	16 59 35.85	+0.26	....	....	C.	−22 44 16.2	−0.1	....	...
6.6	La.	C.	16 59 27.33	+0.33	....	....	C.	−22 44 5.6	1.3	....	...
31.5	B.	C.	16 55 21.77	+0.29	....	....	C.	−22 38 13.8	−1.1	....	...
June 3.5	La.	C.	16 54 50.02	+0.24	....	....	C.	−22 37 26.0	−0.6	....	...
4.5	B.	C.	16 54 39.46	+0.27	....	....	C.	−22 37 10.4	−1.0	....	...
26.4	Br.	C.	16 50 52.74	+0.17	....	....	C.	−22 31 19.4	−0.6	....	...
29.4	Br.	C.	16 50 24.22	+0.18	....	....	C.	−22 30 33.4	−0.1	....	...

SIX-INCH TRANSIT CIRCLE.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1902											
Mar. 29.7	L.	C.	17 22 1.39	+0.16	....	....	C.	−23 13 46.4	0.0	....	...
Apr. 24.6	Br.	C.	17 20 29.88	+0.24	....	....	C.	−23 12 41.6	+0.2	....	...
26.6	L.	C.	17 20 17.26	+0.17	....	....	C.	−23 12 32.0	−0.6	....	...
27.6	L.	C.	17 20 10.87	+0.31	....	....	C.	−23 12 24.7	+1.2	....	...
May 15.6	R.	C.	17 17 46.73	+0.19	....	....	C.	−23 10 18.7	−0.9	....	...
21.6	R.	C.	17 16 49.85	+0.25	....	....	C.	−23 9 23.9	−0.2	....	...
25.5	R.	C.	17 16 10.12	+0.25	....	....	C.	−23 8 45.4	−0.1	....	...
June 18.5	S.	C.	17 11 58.02	+0.16	....	....	C.	−23 4 23.4	+0.2	....	...
21.5	S.	C.	17 11 26.69	+0.12	....	....	C.	−23 3 50.4	−1.3	....	...
July 15.4	L.	.	17 7	....	...	....	C.	−22 59 29.3	−0.1	....	...
16.4	S.	.	17 7	....	....	....	C.	−22 59 20.8	−1.1	....	...
17.4	R.	C.	17 7 25.35	+0.22	....	....	C.	−22 59 11.3	−1.0	....	...
Aug. 11.3	R.	C.	17 5 3.81	+0.18	....	....	C.	−22 56 19.7	−1.2	....	...
12.3	Br.	C.	17 5 0.60	+0.16	....	....	C.	−22 56 16.4	−1.7	....	...

URANUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1903			h m s	s	s	s		° ′ ″	″	″	″
Apr. 17.7	Br.	C.	17 40 23.71	+0.16	....	....	C.	−23 30 9.3	+0.4	....	...
May 11.6	L.	C.	17 37 57.35	+0.18	....	....	C.	−23 29 18.1	+0.1	....	...
12.6	Br.	C.	17 37 49.18	+0.17	....	....	C.	−23 29 15.4	−0.7	....	...
13.6	R.	C.	17 37 40.86	+0.14	....	....	C.	−23 29 10.8	+0.3	....	...
15.6	Br.	C.	17 37 23.98	+0.26	....	....	C.	−23 29 4.1	−0.5	....	...
June 8.5	L.	C.	17 33 28.99	+0.27	....	....	C.	−23 27 3.8	−0.6	....	...
10.5	R.	C.	17 33 7.77	+0.19	....	....	C.	−23 26 51.6	−0.7	....	...
29.5	L.	C.	17 29 47.48	+0.20	....	....	C.	−23 24 45.6	−0.5	....	...
30.5	Br.	C.	17 29 37.27	+0.18	....	....	C.	−23 24 38.3	−0.1	....	...
July 6.4	L.	C.	17 28 37.78	+0.23	....	....	C.	−23 23 57.2	−0.2	....	...
7.4	Br.	C.	17 28 28.09	+0.17	....	....	C.	−23 23 49.4	+0.8	....	...
8.4	R.	C.	17 28 18.53	+0.15	....	....	C.	−23 23 42.8	+0.6	....	...
9.4	L.	C.	17 28 9.09	+0.15	....	....	C.	−23 23 36.5	+0.1	....	...
24.4	Br.	C.	17 26 1.64	+0.16	....	...	C.	−23 22 1.3	+0.2	....	...
25.4	R.	C.	17 25 54.31	+0.22	....	....	C.	−23 21 55.3	+0.5	....	...

NEPTUNE.

SIX-INCH TRANSIT CIRCLE.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1900											
Jan. 2.5	Br.	C.	5 39 6.81	+0.58	....	....	C.	+22 3 54.0	−0.2	....	...
4.4	La.	C.	5 38 53.06	+0.59	....	....	C.	+22 3 49.6	−0.4	....	...
8.4	La.	C.	5 38 26.10	+0.48	....	....	C.	+22 3 42.9	+0.7	....	...
12.4	B.	C.	5 38 0.37	+0.56	....	....	C.	+22 3 35.8	+0.4	....	...
13.4	U.	C.	5 37 54.07	+0.53	....	....	C.	+22 3 33.4	−0.4	....	...
15.4	La.	C.	5 37 41.82	+0.58	....	....	C.	+22 3 30.0	−0.9	....	...

NINE-INCH TRANSIT CIRCLE.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
Oct. 11.7	B.	C.	5 56 42.06	+0.65	....	....	C.	+22 12 54.2	−0.1	....	...
15.7	Hh.	C.	5 56 35.16	+0.43	...	....	C.	+22 12 44.6	−1.5	....	...
Nov. 9.6	Hd.	C.	5 55 5.64	+0.67	....	....	C.	+22 11 56.9	+0.2	....	...
Dec. 5.5	Hh.	C.	5 52 24.57	+0.75	....	....	C.	+22 11 11.4	−1.8	....	...
8.5	Br.	C.	5 52 3.17	+0.64	....	....	C.	+22 11 8.6	−0.3	....	...
1901											
Jan. 3.5	Br.	C.	5 48 54.79	+0.64	....	....	C.	+22 10 41.7	+0.5	....	...
4.5	Hh.	C.	5 48 47.73	+0.56	....	....	C.	+22 10 40.6	+0.1	....	...
5.5	B.	C.	5 48 40.86	+0.62	....	....	C.	+22 10 40.1	+0.2	....	...
29.4	B.	C.	5 46 15.44	+0.64	....	....	C.	+22 10 40.6	+0.6	....	...
31.4	Br.	C.	5 46 5.73	+0.64	....	....	C.	+22 10 41.6	−0.2	....	...
Feb. 1.4	B.	C.	5 46 1.08	+0.69	....	....	C.	+22 10 42.4	+0.2	....	...

SIX-INCH TRANSIT CIRCLE.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
Oct. 30.6	L.	C.	6 5 38.49	+0.62	....	....	C.	+22 15 14.4	−0.2	....	...
Nov. 26.6	Br.	C.	6 3 19.91	+0.55	....	....	C.	+22 14 59.4	−0.2	....	...
28.6	Y.	C.	6 3 7.04	+0.59	....	....	C.	+22 14 58.5	−0.9	....	...
Dec. 25.5	Br.	C.	5 59 55.35	+0.57	....	....	C.	+22 15 7.2	−1.0	....	...
27.5	Br.	C.	5 59 40.75	+0.59	....	....	C.	+22 15 9.1	−0.5	....	...
1902											
Jan. 19.4	S.	C.	5 57 3.23	+0.60	....	....	C.	+22 15 32.9	0.5	....	...
23.4	Br.	C.	5 56 39.26	+0.57	....	....	C.	+22 15 39.1	+0.1	....	...
Feb. 18.3	B.	C.	5 54 44.52	+0.62	....	....	C.	+22 16 27.9	−0.2	....	...
19.3	L.	C.	5 54 41.74	+0.58	....	....	C.	22 16 30.2	−0.2	....	...
Oct. 19.7	Br.	C.	6 15 53.84	+0.62	....	....	C.	+22 16 8.8	+0.2	....	...
20.7	R.	C.	6 15 51.89	+0.56	....	....	C.	+22 16 7.3	−0.4	....	...
21.7	Br.	C.	6 15 49.95	+0.65	....	....	C.	+22 16 6.2	−0.7	....	...
Nov. 16.6	Br.	C.	6 14 11.59	+0.64	....	....	C.	+22 16 7.0	−0.2	....	...
19.6	R.	C.	6 13 55.26	+0.63	....	...	C.	22 16 8.8	−1.0	....	...

NEPTUNE—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Apparent Declination of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1903			h m s	s	s	s		° ′ ″	″	″	″
Jan. 10.5	R.	C.	6 7 56.97	−0.01	....	....	C.	+22 17 52.7	−0.3	....	...
11.4	Br.	C.	6 7 50.15	+0.04	....	....	C.	+22 17 55.8	+0.2	....	...
12.4	L.	C.	6 7 43.25	−0.04	....	....	C.	+22 17 59.1	+0.9	....	...
30.4	Br.	C.	6 5 52.41	−0.03	....	....	C.	+22 18 49.0	+1.5	....	...
Feb. 6.4	Br.	C.	6 5 17.33	−0.03	....	....	C.	+22 19 8.5	+1.3	....	...
8.4	Br.	C.	6 5 8.31	−0.02	....	....	C.	+22 19 13.8	+0.9	....	...
9.4	L.	.	6 5	....	....	....	C.	+22 19 16.6	+0.8	....	...
10.4	Br.	C.	6 4 59.83	+0.06	....	....	C.	+22 19 19.7	+1.0	....	...
25.3	R.	C.	6 4 11.73	−0.09	....	....	C.	+22 20 1.4	−0.6	....	...
26.3	L.	C.	6 4 9.70	0.00	....	....	C.	+22 20 4.7	−0.2	....	...

MINOR PLANETS.

SIX-INCH TRANSIT CIRCLE.

CERES ①.

Date.	Observer.	Apparent Right Ascension.			Correction to Ephemeris.	Apparent Declination.			Correction to Ephemeris.	Remarks.
1903		h	m	s	s	°	′	″	″	
Jan. 14.6	R.	10	16	26.15	+ 1.69	+24	48	25.9	− 5.8	Ephemeris in Nautical Almanac, 1903.
17.6	R.	10	15	14.47	+ 1.76	+25	13	11.4	− 7.6	
18.6	Br.	10	14	47.22	+ 1.77	+25	21	35.0	− 7.1	
Feb. 11.5	R.	9	57	13.91	+ 1.98	+28	35	32.5	− 8.1	
12.5	L.	9	56	19.38	+ 1.94	+28	42	17.2	− 7.7	
13.5	Br.	9	55	24.62	+ 1.92	+28	48	51.2	− 7.1	
Mar. 11.4	R.	9	34	16.21	+ 1.88	+30	20	1.8	− 3.9	
12.4	L.	9	33	41.76	+ 1.79	+30	20	15.0	− 5.4	
Apr. 5.4	Br.	9	28	20.24	+ 1.68	+29	24	30.4	− 4.2	
6.4	L.	9	28	28.53	+ 1.65	+29	20	0.1	− 4.4	

PALLAS ②.

Date.	Observer.	Apparent Right Ascension.			Correction to Ephemeris.	Apparent Declination.			Correction to Ephemeris.	Remarks.
1903										
Jan. 12.4	L.	6	12	12.77	− 4.53	−30	53	27.9	+ 2.3	Ephemeris in Nautical Almanac, 1903.
Feb. 6.4	Br.	6	2	26.94	− 3.95	−23	52	43.7	+ 2.6	
9.4	L.	6	2	36.27	− 3.85	−22	48	50.3	+ 2.3	
25.3	R.	6	8	25.03	− 3.49	−16	48	36.8	− 0.3	
26.3	L.	6	9	2.93	− 3.43	−16	25	40.4	− 0.8	

VESTA ④.

Date.	Observer.	Apparent Right Ascension.			Correction to Ephemeris.	Apparent Declination.			Correction to Ephemeris.	Remarks.
1902										
July 17.5	R.	19	31	37.61	+ 4.45	−23	54	20.0	+ 2.3	Ephemeris in Nautical Almanac, 1902.
22.5	Br.	19	26	45.84	+ 4.44	−24	25	1.2	+ 1.2	
Aug. 16.4	Br.	19	9	40.94	+ 3.95	−26	16	4.9	− 1.1	
17.4	L.	19	9	22.65	+ 3.89	−26	18	53.0	+ 0.5	
18.4	R.	19	9	6.44	+ 3.89	−26	21	35.7	+ 0.3	
Sept. 11.3	L.	19	12	43.77	+ 3.21	−26	53	50.4	− 1.1	
13.3	L.	19	13	52.02	+ 3.14	−26	53	55.7	− 1.3	
14.3	L.	19	14	28.77	+ 3.11	−26	53	50.5	− 1.8	

ISIS ㊷.

Date.	Observer.	Apparent Right Ascension.			Correction to Ephemeris.	Apparent Declination.			Correction to Ephemeris.	Remarks.
1902										
July 22.5	Br.	20	1	16.15	+28.82	−30	46	33.3	+18.7	Ephemeris in Berlin Jahrbuch, 1904.

MEAN PLACES OF MISCELLANEOUS STARS.

The epoch of the mean places immediately follows the name.

NINE-INCH TRANSIT CIRCLE.

Nova Persei (1901.0)

1901			h	m	s	°	′	″
Feb.	24.2	Hd.	3	24	28.04	+43	33	55.5
	25.2	Br.			28.03			54.6
	27.2	Hh.			28.11			54.9
	28.2	Br.			28.05			54.5
Mar.	6.2	Br.			28.07			54.5
	7.2	Hd.			28.11			53.9
	12.2	La.			28.13			53.1
	18.2	Hh.			28.16			....
	24.1	B.			28.13			55.2
Mean			3	24	28.09	+43	33	54.5

C. Z. xvii, 1751 (1901.0)

1901			h	m	s	°	′	″
July	3.4	Br.	17	27	8.36	−27	23	50.3
	9.4	B.			8.34			50.7
	10.4	Br.			8.42			49.4
	15.4	Y.			8.21			51.0
	21.4	B.			8.51			49.5
	29.4	Y.			8.25			49.5
Mean			17	27	8.35	−27	23	50.1

B. D. −5° 5682 (1901.0)

1901			h	m	s	°	′	″
Sept.	7.5	Hd.	21	56	3.27	− 5	35	39.0
	9.4	Y.			3.20			....
Mean			21	56	3.24	− 5	35	39.0

B. D. −4° 5617 (1901.0)

1901			h	m	s	°	′	″
Sept.	4.5	Hd.	22	3	3.37	− 4	0	54.9
	7.5	Hd.			3.37			55.3
	9.5	Y.			3.34			56.0
Mean			22	3	3.36	− 4	0	55.4

B. D. −4° 5638 (1901.0)

1901			h	m	s	°	′	″
Sept.	4.5	Hd.	22	8	53.73	− 4	6	16.9
	7.5	Hd.			53.74			16.9
	9.5	Y.			53.75			17.8
Mean			22	8	53.74	− 4	6	17.2

B. D. +46° 4226 (1901.0)

1801			h	m	s	°	′	″
Sept.	3.5	B.	23	54	42.18	+47	3	1.8
	9.5	Y			41.93			2.7
	12.5	Y.			41.85			2.5
	24.5	B.			42.01			2.6
	27.5	B.			41.96			1.9
Mean			23	54	41.99	+47	3	2.3

SIX-INCH TRANSIT CIRCLE.

B. A. C. 852 (1902.0)

1902			h	m	s	°	′	″
Nov.	13.5	L.	2	40	12.53	+ 4	17	57.6
	14.5	Br.			12.55			57.7
	15.5	R.			12.56			57.1
Dec.	9.4	Br.			12.51			57.1
	23.4	Br.			12.51			55.8
	26.3	Br.			12.55			57.0
Mean			2	40	12.54	+ 4	17	57.0

a Pleiadum (1902.0)

1902			h	m	s	°	′	″
Dec.	9.4	Br.	3	31	29.64	+24	17	0.7
	14.4	Br.			29.71			1.1
	23.4	Br.			29.65			1.5
	26.4	Br.			29.63			0.4
	27.4	R.			29.67			1.0
Mean			3	31	29.66	+24	17	0.9

b Pleiadum (1902.0)

1902			h	m	s	°	′	″
Dec.	8.4	L.	3	42	23.79	+26	17	13.3
	9.4	Br.			23.80			12.1
	14.4	Br.			23.87			13.7
1903								
Jan.	9.4	Br.			23.82			12.9
Mean			3	42	23.82	+26	17	13.0

c Pleiadum (1902.0)

1902			h	m	s	°	′	″
Dec.	23.4	Br.	3	42	54.40	+21	37	30.0
	26.4	Br.			54.43			29.9
	27.4	R.			54.42			30.2
Mean			3	42	54.42	+21	37	30.0

d Pleiadum (1902.0)

1902			h	m	s	°	′	″
Dec.	8.4	L.	3	53	13.48	+23	20	50.7
	9.4	Br			13.55			50.4
	14.4	Br.			13.53			50.5
	23.4	Br.			13.54			50.6
	26.4	Br.			13.49			50.0
Mean			3	53	13.52	+23	20	50.4

B. A. C. 2761 (1902.0)

1902			h	m	s	°	′	″
Nov.	19.7	R.	8	8	54.20	+13	20	44.4
Dec.	18.6	L.			54.17			43.6
1903								
Jan.	12.5	L.			54.18			43.6
	13.5	Br.			54.24			43.8
	14.5	R.			54.13			43.4
Mean			8	8	54.18	+13	20	43.8

B. A. C. 3000 (1902.0)

1902			h	m	s	°	′	″
Nov.	19.7	R.	8	46	35.15	+28	37	36.4
	21.7	Br.			35.16			37.6
Dec.	18.6	L.			35.13			36.8
	21.6	Br.			35.14			37.1
1903								
Jan.	12.6	L.			35.19			36.5
	13.6	Br.			35.17			36.1
	14.6	R.			35.19			37.3
Mean			8	46	35.16	+28	37	36.8

B. A. C. 3824 (1902.0)

1902			h	m	s	°	′	″
Dec.	17.7	R.	11	6	35.50	+14	55	59.4
	18.7	L.			35.42			58.9
	21.7	Br.			35.42			58.7
	22.7	R.			35.40			58.1
1903								
Jan.	15.6	L.			35.44			59.3
Mean			11	6	35.44	+14	55	58.9

B. D.—3° 3809 (1903.0)

1903			h m	s	° ′	″
July	6.4	L.	15 33	12.07	— 3 44	45.1
	7.4	Br.		12.12		45.7
	8.4	R.		12.12		45.5
Mean			15 33	12.10	— 3 44	45.4

B. D.—3° 3818 (1903.0)

1903			h m	s	° ′	″
July	6.4	L.	15 38	20.27	— 3 37	49.1
	7.4	Br.		20.24		48.6
	8.4	R.		20.24		48.4
Mean			15 38	20.25	— 3 37	48.7

B. D.—3° 3824 (1903.0)

1903			h m	s	° ′	″
July	6.4	L.	15 41	25.24	— 3 45	26.2
	7.4	Br.		25.23		26.7
	8.4	R.		25.33		27.2
Mean			15 41	25.27	— 3 45	26.7

B. D.—18° 4503 (1903.0)

1903			h m	s	° ′	″
July	6.4	L.	17 15	55.69	—18 33	40.5
	7.4	Br.		55.65		39.6
	8.4	R.		55.73		. . . .
	9.4	L.		55.61		39.7
Mean			17 15	55.67	—18 33	39.9

B. D.—18° 4507 (1903.0)

1903			h m	s	° ′	″
July	6.4	L.	17 16	41.15	—18 32	53.7
	7.4	Br.		41.16		53.9
	8.4	R.		41.09		53.6
	9.4	L.		41.13		53.9
Mean			17 16	41.13	—18 32	53.8

PART II.

TRANSIT CIRCLE OBSERVATIONS

OF THE

SUN, MOON, PLANETS, AND COMETS.

1866–1891.

REVISED AND CORRECTED BY

J. R. EASTMAN,

Professor of Mathematics, U. S. N. (Retired).

INTRODUCTION.

From January, 1866, to June 30, 1891, the 8.5-inch transit circle, by PISTOR and MARTINS, was employed in the observation of standard and miscellaneous stars and the Sun, Moon, and the major and minor Planets. The general plan of reduction and publication contemplated the publication of an annual volume of observations and results, giving the observed positions, the principal details of the reductions, the deduced positions, and the classified and concluded results of the work of each year.

This plan was generally carried out, and the material for each volume was prepared as soon as it could be done with the force at hand. While the general methods of reduction and the form of publication were maintained during the period from 1866 to 1891, some changes were introduced from time to time with a view to simplifying the work and improving the results.

These variations, together with the fact that each year's observations and results, as printed, were practically independent, made it desirable that the whole work for twenty-six years should be examined, corrected, in many cases re-reduced, and collated and discussed with reference to a common system.

This work has already been done for the observations of the standard and miscellaneous stars and may be found in the Second Washington Catalogue of Stars, Washington, 1898.

OBSERVATIONS OF THE SUN, MOON, PLANETS, AND COMETS.

At the beginning of the work in 1866 great stress was laid on the desirability of securing as many observations as possible of the Sun and the Moon, and the observations of the Planets were undertaken with nearly equal zeal.

This plan, with some modifications, was continued at the old Observatory until June 30, 1891, when the instrument was dismounted in order to make material changes in its form and mounting.

The manner of observing and the methods of reduction are given with considerable detail in each of the annual volumes from 1866 to 1891, and it seems unnecessary to repeat them here.

From 1866 to 1874 the observations of the stars of the American Ephemeris were conducted with a view to obtaining absolute determinations of their right ascensions. During that period the clock corrections and rates used in reducing the Sun, Moon, and Planet observations were the same as those used in the star reductions. From 1875 to 1891 the clock corrections and rates used in the reductions of the Sun, Moon, and Planet observations were derived from observations of standard stars of the American Ephemeris, not far distant, in time, from the objects observed; generally from groups of stars near the beginning and the end of the work of each day and each night.

The observations of zenith distances and the deduced north-polar distances depended upon nadir observations from 1866 to March 19, 1888, but after that date upon the positions of the standard stars of the American Ephemeris.

The work of each day or night depended upon the nadir observations made during each observing period, and to that extent the observations of each period were independent; but at the end of each year all the results received a systematic correction derived from a discussion of all the nadir and reflection observations made during the year.

When the work with the transit circle was completed in 1891, the results of the observations of the Sun, Moon, and Planets had been collated annually for twenty-six years.

The right ascensions depended upon the positions of the standard stars in the American Ephemeris, while the north-polar distances from each day's observations were practically independent positions.

During the investigation of those observations of the Sun used in deriving a value of the Obliquity of the Ecliptic and the Correction for Equinox[a] many errors were discovered in the observed right ascensions and north-polar distances of the Sun as published in the annual volumes.

An examination of the published results of the observations of the Moon and of the major and the minor planets disclosed the existence of similar errors in those results.

A more complete discussion of the division errors of the transit circle and the adoption of a new interpretation of the relation between the results from the direct and reflection observations made it desirable to prepare an entirely new table of systematic corrections for each year from 1866 to 1891.[b]

The annual results from the observations of stars from 1866 to 1891 were corrected, before use in the star catalogue, by the differences between the new systematic corrections and those used to obtain the several results printed in the annual volumes.

It seemed equally desirable, therefore, that the observed north-polar distances of the Sun, Moon, and Planets should receive the same corrections that were applied to the stars, reducing them to the same general system.

For the above reasons the work of investigating all the results of the observations of the Sun, Moon, and Planets with the transit circle from 1866 to 1891 was undertaken.

During the investigation of the star places used in the Second Washington Catalogue of Stars various classes of errors were found, and a summary of the principal sources of error was given in the Introduction[c] to that volume, as follows: "The errors in the annual results in right ascension were due principally to errors of seconds or minutes in reading the chronograph sheets, errors in transcription, errors of sign in the instrumental corrections, errors in the clock corrections and rates, and errors in the reduction to mean place. The errors in the annual results in north-polar distance were generally traceable to errors in setting the circle, misreading the number of revolutions of the telescope micrometer screw or the divisions on its head, errors in reading the heads of the circle microscopes, errors in zenith-point corrections, errors in computed corrections for refraction, and errors in the computation or application of the reductions to mean place."

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[a] Second Washington Catalogue of Stars, pp. XLII and XLIV.

[b] Second Washington Catalogue of Stars, pp. XXI and XXIX to XLII.

[c] Second Washington Catalogue of Stars, p. XXIX.

With the exception of the references to reductions to mean place, the foregoing summary applies with equal force to the observations and reductions of the Sun, Moon, and Planets. Another source of error affecting equally the results for stars and the Sun, Moon, and Planets was found in the erroneous values of the azimuth, level, and collimation constants used in some of the reductions.

In the case of the Sun, Moon, and Planets, where the observed diameter was greater than one revolution of the zenith distance micrometer screw, it sometimes happened that the micrometer reading for the bisection of one limb was recorded with the number of revolutions pertaining to the other limb. This, of course, did not affect the position of the center of the object, but did change the observed diameter. This error was frequently found in observations of the Sun's diameter.

With a knowledge of these sources of error as a general guide, and with the aid of the information in regard to errors in the constants and in the corrections, gained in the discussion of the star observations, a very careful examination of all the observations of the Sun, Moon, and Planets was made with the view of eliminating all discoverable errors and correcting all the north-polar distances with the data found in the tables of new systematic corrections given on pages XXXIII to XLI of the Second Washington Catalogue of Stars.

OBSERVATIONS OF THE SUN.

The individual right ascensions and north-polar distances derived from the observations of the Sun from 1866 to 1891, inclusive, were compared with the computed quantities given in the annual volumes of the American Ephemeris and Nautical Almanac. The ephemerides of the Sun, in those volumes, were derived from Tables du Soleil, by Hansen and Olufsen, Copenhagen, 1853.

Struve's value of the constant of aberration, 20″.4451, was used for the years 1866, 1867, and 1868, and after 1874. Hansen and Olufsen's value of the aberration constant, 20″.255, was used from 1869 to 1874, inclusive. Encke's value of the mean equatorial horizontal parallax of the Sun, 8″.5776, was used from 1866 to 1869. Professor Newcomb's value of the parallax, 8″.848, taken from his "Investigation of the Distance of the Sun and the elements which depend on it," was used from 1870 to 1891.

From 1866 to 1881 Peters' value of the obliquity of the ecliptic was used, and after 1881 Hansen's value was adopted. These values were:

Epoch.	Peters.			Hansen.		
	°	′	″	°	′	″
1800	23	27	54.22	23	27	54.80
1850	23	27	30.99	23	27	31.42
1900	23	27	7.76	23	27	8.02

The adopted semidiameter of the Sun at the Earth's mean distance was 16′ 2″.00.

OBSERVATIONS OF THE MOON.

The individual right ascensions and north-polar distances derived from the observations of the Moon from 1866 to 1891 were compared with the computed quantities given in the annual volumes of the American Ephemeris and Nautical Almanac.

From 1866 to 1868 the ephemeris of the Moon was constructed from PEIRCE'S Tables of the Moon, employing the tables of the Moon's parallax constructed from WALKER'S and ADAMS' formulæ. From 1869 to 1882 the second edition of PEIRCE'S Tables was used. After 1882 the right ascension, declination, and parallax of the ephemeris were derived from HANSEN'S Tables de la Lune, London, 1857, the mean longitude being corrected in accordance with NEWCOMB'S Researches on the Motion of the Moon, part I, p. 268, and a corrected table being substituted for XXXIV.

The observed places of the Moon were also compared, from 1866 to 1882, with the ephemeris derived from HANSEN'S tables and printed in the British Nautical Almanac.

The semidiameter of the Moon was computed from the Moon's horizontal parallax by the formula $S=0.272274\pi+2''.5$.

OBSERVATIONS OF MERCURY.

The observed places of Mercury from 1866 to 1891 were compared with the computed positions given in the American Ephemeris.

These ephemerides were derived from the Tables of Mercury by Prof. JOSEPH WINLOCK, Washington, 1864.

The tables were founded on the theory of LE VERRIER, additions a la Connaissance des Temps, for 1848.

In the American Ephemeris the semidiameter was computed from LE VERRIER'S adopted value, 3''.34 at log distance 0.00.

OBSERVATIONS OF VENUS.

The observed places of Venus from 1866 to 1891 were compared with the computed positions given in the American Ephemeris.

Comparison was also made, from 1866 to 1881, with the ephemeris in the British Nautical Almanac, which was derived from LE VERRIER'S Tables; Annales de l'Observatoire Impérial de Paris, vol. 6. The ephemerides of Venus in the American Ephemeris, from 1866 to 1875, were constructed from those of LINDENAU, in a form similar to that adopted for the lunar tables, applying AIRY'S long equation, the corrections derived from Mr. HUGH BREEN'S discussion in vol. XVIII, Memoirs of the Royal Astronomical Society, and the secular variation of the elements from LE VERRIER'S Mémoire sur la Détermination des Inégalites Séculaires des Planètes; Connaissance des Temps, 1844. From 1876 to 1891 the positions in the American Ephemeris were derived from Dr. G. W. HILL'S Tables of Venus, office of American Ephemeris, Washington, 1872.

The observed semidiameters were compared with the values given in the American Ephemeris, which were derived from PEIRCE'S value, 8''.546 at log distance 0.00; The Astronomical Journal, No. 50, November 20, 1852.

OBSERVATIONS OF MARS.

The observed places of Mars, from 1866 to 1891, were compared with the computed positions given in the American Ephemeris. From 1866 to 1869 these places were also compared with the positions in the British Nautical Almanac, which were derived from LE VERRIER'S Tables.

The ephemerides in the American Ephemeris were derived from manuscript tables constructed from LINDENAU'S Tables. The results obtained by Mr. HUGH BREEN in his paper on the corrections of LINDENAU'S elements of Mars, Memoirs of the Royal Astronomical Society, vol. XX, were discussed and applied, and LE VERRIER'S secular variations of the elements were adopted.

The observed semidiameters were compared with the values given in the American Ephemeris, which were derived from PEIRCE'S value, 5″.055 at log distance 0.00; The Astronomical Journal, No. 50, November 20, 1852.

OBSERVATIONS OF JUPITER.

The observed places of Jupiter from 1866 to 1891 were compared with the computed positions given in the American Ephemeris. The ephemerides were derived from manuscript tables constructed from BOUVARD'S Tables, with some changes necessary to make them correspond more nearly to the formulae.

The observed semidiameters were compared with the data in the American Ephemeris. Those values were derived from PEIRCE'S discussion of the observations made with the mural circle at the U. S. Naval Observatory in 1845 and 1846.

From 1866 to 1869, inclusive, the erroneous value 19″.19, at log distance 0.70, was used in the American Ephemeris. From 1870 to 1891 the following values were used for Jupiter; polar semidiameter, 18″.78; equatorial semidiameter, 20″.00; at log distance 0.70.

OBSERVATIONS OF SATURN.

The observed places of Saturn from 1866 to 1891 were compared with the computed positions given in the American Ephemeris.

The ephemerides from 1866 to 1882 were derived from BOUVARD'S Tables. The perturbations produced by Jupiter, and the change of the Great Inequality after 1840, were increased by $\frac{1}{50}$ of their value. ADAMS' Table in the British Nautical Almanac for 1851 was substituted for BOUVARD'S Table XLII.

After 1882 the ephemerides were derived from Dr. G. W. HILL'S provisional Theory. The complete theory and the tables were published in 1895 as part II, vol. VII, of the Astronomical Papers of the American Ephemeris and Nautical Almanac.

The observations of semidiameter were compared with the values in the American Ephemeris, which were derived from PEIRCE'S results; polar semidiameter, 8″.77; equatorial semidiameter, 9″.35; at log distance 0.95. These values were obtained from a discussion of the observations with the mural circle at the U. S. Naval Observatory in 1845 and 1846.

OBSERVATIONS OF URANUS.

The observed places of Uranus from 1866 to 1891 were compared with the computed positions given in the American Ephemeris.

The ephemerides of Uranus from 1866 to 1875 were derived from the elliptical portion of BOUVARD'S Tables, with LE VERRIER'S corrections and perturbations caused by Jupiter and Saturn, contained in his Recherches sur le Mouvements de la Planète Herschel (dite Uranus); Connaissance des Temps 1849; and with PEIRCE'S corrections and perturbations arising from the influence of Neptune.

After 1875 the ephemerides of Uranus were derived from Prof. S. NEWCOMB'S Tables of Uranus; Smithsonian Contributions to Knowledge, vol. XIX, 1873.

The observations of semidiameters were compared with the data in the American Ephemeris, which was derived from PEIRCE'S discussion of the observations with the mural circle at the U. S. Naval Observatory in 1845 and 1846.

OBSERVATIONS OF NEPTUNE.

The observed places of Neptune from 1866 to 1891 were compared with the computed positions given in the American Ephemeris.

The ephemerides in the American Ephemeris from 1866 to 1869 were derived from two sources. The data for Neptune in the body of the volumes were derived from PEIRCE'S Theory and from WALKER'S Orbit of Neptune. In the Appendix to the American Ephemeris for 1869 were given ephemerides of Neptune for 1866, 1867, 1868, and 1869. Those places were derived from Prof. S. NEWCOMB'S Tables of Neptune; Smithsonian Contributions to Knowledge, vol. XV, 1866.

From 1866 to 1869 the observed places were compared with both of these ephemerides.

After 1869 the ephemerides were derived from Professor NEWCOMB'S Tables.

OBSERVATIONS OF THE MINOR PLANETS.

The observed places of the minor Planets from 1866 to 1891 were compared with the computed positions in various ephemerides, mainly for the purpose of identification.

In a large majority of cases the comparisons were made with the data in the Berliner Jahrbuch. Comparisons were also made in the case of the older planets with the data in the British Nautical Almanac.

When the Jahrbuch was used for reference the following method was employed. With the Washington mean time of transit and the longitude of Berlin given, the Berlin mean time of transit was obtained, from which the aberration time, generally given in the ephemeris, was subtracted. From this data the ephemeris position at the time of Washington transit was readily obtained by interpolation.

A similar process was employed for ephemerides computed for other points.

In many cases no complete ephemeris was at hand, and identification rested wholly on approximate data or on extra meridian observations with the 9.6-inch equatorial.

From 1866 to 1875 no method save that of trial was used to identify the small planets in the observing field of the transit circle. On that account many small objects were observed which afterwards proved to be *not* the planets looked for.

From 1875 to 1882 the 9.6-inch equatorial was used by the officer in charge of the transit circle to determine the approximate corrections to the ephemeris places of those small planets whose positions were considered doubtful.

Some of the other observers with the transit circle also used the equatorial for the same purpose. This plan immediately led to the observation of a greater number of small planets and also to a less waste of time in guessing at their identity in the field. To this work with the equatorial, however, many hours of hard work were devoted, but they do not appear on the Observatory records.

In 1882 a change was made in the control of the equatorial telescope, and no such approximate corrections were obtained thereafter, save such as were kindly furnished by Dr. C. H. F. PETERS, of the Litchfield Observatory, Clinton, N. Y.

As observations of the more recently discovered small planets were impracticable without such corrections, the number of observations of the small planets between 1882 and 1891 was greatly reduced.

It is quite certain that observations of the small planets, fainter than 9.5 magnitude, over bright threads in a dark field, are materially affected by a special personal equation; see Washington Astronomical and Meteorological Observations, volume for 1886, p. XLI. On account, however, of the lack of definite information concerning the personal equation of most of the observers no corrections have been applied to the work of any observer of small planets from 1866 to 1891.

OBSERVATIONS OF COMETS.

Several comets were observed with the transit circle, principally to test the quality of such meridian observations and incidentally to obtain independent positions.

No comparisons were made with ephemerides.

THE PRINTED RESULTS.

The printed results of the observations of the Sun, Moon, Planets, and Comets which follow this introduction need little or no explanation.

In the case of the minor Planets the references to ephemerides in the right-hand column of each page may require a brief notice.

In a few cases no mention was made, in the annual volume, of any ephemeris, and there is now no apparent clew to any series of computed places, if any were used as a check on the observations.

In some cases the ephemerides used were no more than observing lists computed to tenths of a minute of time and to the nearest minute of arc.

In the majority of cases, however, complete ephemerides were employed, though occasionally the observations were continued beyond the dates given in the ephemeris.

The principal references in the right-hand column are as given below:

B. N. A.	indicates	British Nautical Almanac.
B. J.	"	Berliner Jahrbuch.
Circ. B. J.	"	Circular zum Berliner Astronomischen Jahrbuch.
A. N.	"	Astronomische Nachrichten.
Bull. Astron.	"	Bulletin Astronomique, publié sous les auspices de l'Observatoire de Paris.

Reference is sometimes made to manuscript ephemerides, which require no explanation.

The number of observations of each object, by each observer, together with the total number of observations, 1866–1891.

Observer.	Initial.	Sun.	Moon.	Mercury.	Venus.	Mars.	Jupiter.	Saturn.	Uranus.	Neptune.	Minor Planets.	Comets.	Total.
Prof. SIMON NEWCOMB, U. S. N.	N.	131	93	42	47	15	32	40	34	33	185	....	652
Prof. ASAPH HALL,[a] U. S. N	H.	93	60	20	38	11	27	19	24	26	121	....	439
Prof. WILLIAM HARKNESS, U. S. N	Ha.	31	45	10	9	....	6	1	4	7	1	....	114
Prof. J. R. EASTMAN, U. S. N	E.	462	350	181	308	30	59	72	62	73	331	33	1, 961
Prof. E. S. HOLDEN, U. S. N	Hn.	12	19	....	5	2	3	6	....	2	1	....	50
Prof. EDGAR FRISBY, U. S. N.	F.	229	210	52	112	30	40	61	44	42	288	1	1, 109
Asst. Astronomer J. A. ROGERS[b]	R.	55	62	12	14	5	7	11	17	23	61	....	267
Asst. Astronomer C. THIRION	T.	137	71	43	59	21	32	24	28	44	158	....	617
Asst. Astronomer C. ABBE	A.	22	5	7	4	....	....	4	5	7	27	....	81
Asst. Astronomer O. STONE[c]	S.	74	60	18	27	....	5	15	4	2	13	....	218
Asst. Astronomer A. N. SKINNER[d]	Sk. S.	364	299	168	252	25	46	48	39	51	273	19	1, 584
Asst. Astronomer H. M. PAUL	P.	164	180	89	127	27	30	32	28	34	313	9	1, 033
Asst. Astronomer H. S. PRITCHETT	Pr.	36	28	13	17	5	11	12	3	8	68	....	201
Asst. Astronomer M. ROCK[e]	R.	80	57	43	59	8	19	12	8	10	119	7	422
Asst. Astronomer W. C. WINLOCK	W.	231	150	93	135	7	28	32	10	24	79	35	824
Asst. Astronomer A. HALL, Jr.[f]	H.	50	30	17	42	3	2	2	....	....	[illegible]	....	148
Total	....	2, 171	1, 719	808	1, 255	189	347	391	310	386	2, 040	104	9, 720

[a] Initial H. during 1866 and 1867.

[b] Initial R. during 1866 and 1867.

[c] Initial S. March, 1870, to March, 1875.

[d] Initial Sk. November 17, 1873, to December 31, 1875; initial S. January 1, 1876, to June 30, 1891.

[e] Initial R. July 1, 1880, to October 31, 1883.

[f] Initial H. August 1, 1889, to January 30, 1891.

The examination and correction of the results from the observations of the Sun, Moon, and Planets and the re-reduction of a very large number of the observations have required an unexpected amount of time, patience, and hard work.

Notwithstanding all the labor and care bestowed on this work, and the large number of corrections found necessary, it can not be hoped confidently that all the errors have been found and eliminated.

In general it may be said that these results indicate a commendable degree of accuracy in most of the observations. Some of the work is of the best quality, and where any of it does not attain that character it is, in most cases, due to a lack of training and experience on the part of the observer.

The development of astronomical science has now reached a point where an effort to secure a large number of *approximate* positions seems to be an unwarrantable waste of time and energy.

A system that looks to the observation of the Sun, Moon, and Planets, whenever visible, regardless of other necessary observations and of the conditions which make for the clearness and steadiness of the image, does not help the progress of astronomy.

A few observations, made under favorable conditions, by a careful, experienced observer who understands his instrument and appreciates the value of the best work, is of far greater value than volumes of observations made by several inexperienced observers who have neither the knowledge, skill, or interest to secure anything better than approximate results.

In the latter case the results are especially undesirable when the mean of the aggregate observations is taken, without regard to the peculiarities of the individual observers, as the best final position.

With the great increase in the number of modern instruments and the possible improvements in the methods of observing, the first quarter of the twentieth century ought to produce a far higher class of observations of the positions and semidiameters of the Sun, Moon, and Planets than have ever been obtained before.

J. R. EASTMAN,
Professor of Mathematics, U. S. N. (Retired).

Andover, N. H.,
October, 1902.

OBSERVATIONS OF THE SUN.

1866–1891.

SUN.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1866.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Jan. 4	R.	.	19 1 40.69	− 0.10	1 11.02	+ 0.10	.	112 41 50.9	+ 2.4	16 19.0	+ 0.6
5	H.	.	19 6 4.38	+ 0.11	1 10.81	− 0.05	.	112 35 7.1	+ 0.7	16 16.8	− 1.7
9	R.	.	19 23 33.40	− 0.19	1 10.59	+ 0.01	.	112 3 53.2	+ 0.8	16 16.8	− 1.4
10	T.	.	19 27.9	....	....	....	.	111 54 59.8	+ 1.1	16 16.9	− 1.3
12	H.	.	19 36 34.79	− 0.21	1 10.25	− 0.09	.	111 35 53.4	− 0.8	16 16.5	− 1.6
31	N.	.	20 56 34.56	− 0.11	1 8.32	− 0.03	.	107 17 36.0	+ 0.7	16 15.5	− 0.6
Feb. 1	R.	.	21 0 39.12	− 0.11	1 8.24	0.00	.	107 0 35.0	+ 1.1	16 16.3	+ 0.3
2	H.	.	21 4 42.95	− 0.01	1 7.97	− 0.16	.	106 43 15.6	+ 1.0	16 11.9	− 3.9
5	R.	.	21 16 49.20	− 0.11	1 7.84	+ 0.06	.	105 49 33.9	+ 0.6	16 13.7	− 1.6
6	H.	.	21 26 49.70	− 0.12	1 7.62	− 0.05	.	105 31 5.4	− 1.0	16 13.7	− 1.4
10	T.	.	21 36 44.10	+ 0.03	1 7.14	− 0.07	.	104 14 44.9	+ 0.7	16 16.7	+ 2.3
15	R.	.	21 56 19.69	− 0.07	1 6.82	+ 0.15	.	102 34 0.3	0.0	16 16.3	+ 2.9
16	H.	.	22 0 12.73	+ 0.06	1 6.50	− 0.06	.	102 13 15.6	+ 2.0	16 13.3	+ 0.1
17	T.	.	22 4 4.87	0.00	1 6.44	− 0.02	.	101 52 14.7	− 0.7	16 11.9	− 1.1
20	R.	II	22 15 37.19	− 0.06	....	....	.	100 48 15.0	− 0.3	16 12.5	+ 0.2
21	T.	.	22 19 26.66	− 0.02	1 6.02	− 0.05	.	100 26.8	...	....	....
22	R.	.	22 23 15.34	− 0.10	1 5.96	− 0.02	.	100 4 45.2	+ 0.1	16 12.4	+ 0.5
23	H.	.	22 27 3.48	− 0.08	1 5.84	− 0.05	.	99 42 47.3	+ 1.3	16 9.9	− 1.8
26	H.	.	22 38 24.13	− 0.07	1 5.66	+ 0.02	.	98 35 57.5	− 0.9	16 9.5	− 1.5
28	T.	.	22 45 55.18	+ 0.09	1 5.30	− 0.18	.	97 50 47.0	− 1.2	16 7.4	− 3.1
Mar. 2	H.	.	22 53 23.76	− 0.11	1 5.30	− 0.03	.	97 5 10.8	− 0.3	16 8.8	− 1.2
5	H.	.	23 4 33.46	0.00	1 5.18	+ 0.05	.	95 56 0.9	− 0.2	16 10.1	+ 0.8
8	N.	.	23 15 39.32	− 0.01	1 4.97	+ 0.02	.	94 46 5.1	− 1.9	16 7.1	− 1.4
10	T.	.	23 23 1.25	− 0.17	1 4.99	+ 0.14	.	93 59 11.6	+ 0.1	16 6.7	− 1.2
14	N.	.	23 37 41.92	− 0.09	1 4.57	− 0.11	.	92 24 47.6	− 0.2	16 4.0	− 2.9
15	R.	.	23 41.3	....	....	....	.	92 1 6.4	− 1.0	16 5.4	− 1.2
17	T.	.	23 48 39.81	− 0.02	1 4.54	− 0.04	.	91 13 42.9	− 0.8	16 2.9	− 3.1
22	R.	I	0 6 52.42	− 0.14	....	....	.	89 15 14.3	− 1.5	16 6.2	+ 1.5
24	T.	.	0 14 8.85	+ 0.05	1 4.37	− 0.09	.	88 28 1.4	+ 0.2	16 3.6	− 0.6
26	N.	.	0 21 24.85	+ 0.06	1 4.47	+ 0.01	.	87 40 55.1	− 0.5	16 2.6	− 1.0
27	R.	II	0 25 2.63	− 0.11	....	....	.	87 17 26.5	− 0.6	16 2.6	− 0.8
Apr. 2	N.	.	0 46 51.30	− 0.02	1 4.46	− 0.06	.	84 57 58.4	+ 1.0	16 0.1	− 1.6
5	R.	II	0 57 47.26	+ 0.06	....	....	.	83 49.4	...	....	....
6	N.	.	1 1 26.15	− 0.06	1 4.52	− 0.11	.	83 26 39.9	+ 0.6	15 58.8	− 1.7
9	N.	.	1 12 24.61	− 0.03	1 4.69	− 0.04	.	82 19 20.1	+ 1.0	15 58.6	− 1.1
10	R.	.	1 16 4.59	− 0.07	1 4.85	+ 0.08	.	81 57 8.3	+ 1.0	16 0.0	+ 0.6
11	T.	II	1 19 45.03	+ 0.06	....	....	.	81 35 2.3	− 1.1	15 59.6	+ 0.4
12	R.	.	1 23 25.48	− 0.10	1 4.92	+ 0.06	.	81 13 7.1	− 0.8	15 59.5	+ 0.7
13	N	II	1 27 6.55	+ 0.04	....	....	.	80 51 21.5	+ 0.3	15 56.9	− 1.7
19	N.	.	1 49 19.63	+ 0.18	1 5.12	− 0.10	.	78 44 2.8	− 0.6	15 56.1	− 0.9
20	R.	.	1 53 2.97	+ 0.03	1 5.26	− 0.02	.	78 23 27.6	+ 0.2	15 56.4	− 0.4
21	T.	.	1 56 46.74	− 0.11	1 5.38	+ 0.03	.	78 3 2.5	− 0.3	15 55.7	− 0.8
23	N.	.	2 4 15.98	+ 0.04	1 5.37	− 0.12	.	77 22 49.8	+ 0.2	15 54.4	− 1.6
24	R.	II	2 8 1.04	− 0.10	....	....	N.	77 3 3.6	+ 2.0	....	....
26	R.	.	2 15 32.91	− 0.03	1 5.68	− 0.02	.	76 24 5.5	+ 1.4	15 54.7	− 0.6
27	H.	.	2 19 19.53	− 0.05	1 5.78	+ 0.01	.	76 4 55.4	0.0	15 54.6	− 0.5
28	T.	.	2 23 6.79	+ 0.08	1 5.78	− 0.07	.	75 46 0.4	0.0	15 54.8	0.0
May 2	T.	.	2 38 20.50	+ 0.03	1 6.04	− 0.12	.	74 32 43.5	− 0.3	15 54.2	+ 0.3
3	R.	.	2 42 10.26	− 0.02	1 6.24	0.00	.	74 15 2.3	+ 0.5	15 53.6	0.0
4	H.	.	[illegible] 46 0.50	− 0.16	1 6.26	− 0.06	.	73 57 36.2	+ 0.8	15 52.5	− 0.9
5	T.	.	2 49 51.70	+ 0.08	1 6.36	− 0.04	.	73 40 23.8	− 1.2	15 52.5	− 0.7
7	N.	.	2 57 35.27	− 0.01	1 6.52	− 0.04	.	73 6 53.2	+ 0.2	15 52.0	− 0.7
8	R.	.	3 1 27.87	− 0.13	1 6.56	− 0.08	.	72 50 31.9	− 0.1	15 52.4	− 0.1
12	T.	.	3 17 4.81	+ 0.03	1 7.00	+ 0.03	.	71 48 1.5	− 0.1	15 51.8	+ 0.2
14	N.	.	3 24 56.78	+ 0.09	1 7.12	− 0.01	.	71 18 33.9	− 1.0	15 50.7	− 0.5
15	R.	.	3 28 53.46	− 0.05	1 7.21	− 0.01	.	71 4 18.7	− 1.0	15 51.1	+ 0.1
16	T.	.	3 32 50.88	− 0.01	1 7.26	− 0.04	.	70 50 23.8	+ 0.2	15 48.7	− 2.1
19	T.	.	3 44 46.45	+ 0.09	1 7.48	− 0.06	.	70 10 31.8	− 1.2	15 49.4	− 0.9
21	N.	II	3 52 46.03	0.00	....	....	S.	69 45 40.1	− 0.1	....	....

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1866.			h m s	s	m s	s		° ′ ″	″	′ ″	″
May 22	H.	.	3 56 46.68	+ 0.04	1 7.68	− 0.08	.	69 33 44.6	− 0.1	15 49.0	− 0.8
23	T.	.	4 0 47.75	− 0.01	1 7.88	+ 0.04	.	69 22 9.6	− 0.6	15 50.8	+ 1.2
24	N.	.	4 4 49.35	− 0.03	1 7.89	− 0.02	.	69 10 56.9	− 0.1	15 48.7	− 0.8
25	H.	.	4 8 51.45	− 0.04	1 7.95	− 0.04	.	69 0 5.9	+ 0.7	15 49.0	− 0.3
28	N.	.	4 21 0.79	+ 0.09	1 8.13	− 0.05	.	68 29 39.7	− 1.3	15 47.4	− 1.4
30	T.	.	4 29 9.07	− 0.08	1 8.28	− 0.02	.	68 11 16.6	+ 0.6	15 47.0	− 1.6
June 4	N.	.	4 49 37.76	+ 0.06	1 8.50	− 0.08	.	67 31 52.4	− 1.5	15 46.8	− 1.1
6	H.	I	4 57 51.86	+ 0.05	....	....	N.	67 18 55.2	+ 2.6	....	....
7	N.	II	5 1 59.32	− 0.05	....	....	.	67 12 58.4	+ 0.7	15 46.4	− 1.1
8	R.	II	5 6 7.11	− 0.12	....	....	S.	67 7 26.4	− 0.2	....	....
11	N.	.	5 18 32.44	0.00	1 8.72	− 0.13	.	66 53 18.0	− 1.8	15 45.7	− 1.4
12	R.	.	5 22 41.33	+ 0.03	1 8.85	− 0.02	.	66 49 24.2	− 0.1	15 46.9	− 0.1
13	H.	.	5 26 50.33	− 0.02	1 8.80	− 0.09	.	66 45 54.3	− 0.4	15 45.3	− 1.6
14	R.	.	5 30 59.48	− 0.08	1 9.02	+ 0.11	.	66 42 51.4	+ 1.8	15 48.2	+ 1.4
15	H.	.	5 35 8.94	+ 0.04	1 8.70	− 0.23	.	66 40 11.5	+ 2.3	15 44.1	− 2.7
16	T.	.	5 39 18.36	+ 0.03	1 9.02	+ 0.07	.	66 37 54.0	+ 0.6	15 46.8	+ 0.1
18	N.	I	5 47 37.57	+ 0.15	....	....	N.	66 34 35.6	− 0.4	....	....
20	T.	.	5 55 56.60	− 0.01	1 8.88	− 0.10	.	66 32 57.3	− 0.5	15 45.8	− 0.7
21	N.	.	6 0 6.25	+ 0.07	1 8.84	− 0.14	.	66 32 45.2	− 0.7	15 44.2	− 2.2
22	R.	.	6 4 15.64	− 0.05	1 8.99	+ 0.01	.	66 33 0.6	+ 1.8	15 46.9	+ 0.5
23	H.	.	6 8 25.24	+ 0.10	1 8.90	− 0.07	.	66 33 36.7	+ 0.2	15 44.5	− 1.9
25	N.	.	6 16 43.90	+ 0.12	1 8.78	− 0.16	.	66 36 5.7	− 0.5	15 45.0	− 1.3
26	R.	.	6 20 52.74	− 0.18	1 9.02	+ 0.10	.	66 37 58.9	+ 0.9	15 47.0	+ 0.7
27	H.	.	6 25 2.02	+ 0.11	1 8.82	− 0.08	.	66 40 14.8	+ 0.4	15 44.5	− 1.7
29	N.	II	6 33 19.42	+ 0.07	....	....	.	66 46 1.5	+ 0.1	15 45.5	− 0.7
30	H.	.	6 37 27.72	− 0.05	1 8.74	− 0.07	.	66 49 31.1	− 0.5	15 44.9	− 1.3
July 2	N.	.	6 45 43.90	− 0.03	1 8.68	− 0.06	.	66 57 44.3	− 0.6	15 45.4	− 0.8
3	H.	.	6 49 51.54	− 0.08	1 8.72	+ 0.02	.	67 2 27.6	− 0.2	15 45.7	− 0.5
5	N.	.	6 58 6.16	− 0.01	1 8.50	− 0.11	.	67 13 5.4	− 0.2	15 44.5	− 1.7
6	R.	.	7 2 12.88	− 0.09	1 8.59	+ 0.03	.	67 18 59.8	− 0.5	15 45.7	− 0.5
7	H.	.	7 6 19.34	− 0.08	1 8.40	− 0.11	.	67 25 18.0	− 0.5	15 44.5	− 1.7
9	N.	.	7 14 31.37	+ 0.13	1 8.31	− 0.09	.	67 39 5.8	+ 0.5	15 45.3	− 0.9
11	T.	.	7 22 41.34	− 0.09	1 8.15	− 0.13	.	67 54 23.6	− 1.2	15 46.5	+ 0.2
12	R.	.	7 26 45.92	+ 0.05	1 8.22	0.00	.	68 2 39.6	+ 0.9	15 45.4	− 0.9
13	H.	.	7 30 49.91	+ 0.03	1 8.08	− 0.07	.	68 11 14.2	− 1.1	15 44.8	− 1.6
14	T.	.	7 34 53.38	− 0.04	1 8.05	− 0.03	.	68 20 14.1	− 0.1	15 45.6	− 0.8
16	N.	.	7 42 58.98	+ 0.03	1 7.91	− 0.03	.	68 39 18.0	− 0.2	15 44.7	− 1.9
17	R.	I	7 47 0.82	− 0.09	....	....	.	68 49.4	...	....	...
24	R.	.	8 14 58.96	+ 0.05	1 7.30	− 0.02	.	70 9 45.1	0.0	15 46.7	− 0.5
25	T.	.	8 18 56.30	+ 0.02	1 7.25	+ 0.02	.	70 22 34.7	− 0.4	15 44.9	− 2.4
26	N.	.	8 22 53.02	− 0.03	1 7.10	− 0.05	.	70 35 45.9	+ 1.1	15 46.2	− 1.2
27	H.	.	8 26 49.26	+ 0.03	1 6.99	− 0.07	.	70 49 15.7	+ 1.9	15 47.2	− 0.3
28	T.	.	8 30 44.73	− 0.08	1 6.94	− 0.04	.	71 3 2.1	+ 0.2	15 45.0	− 2.6
30	N.	.	8 38 34.20	+ 0.02	1 6.70	− 0.11	.	71 31 34.0	0.0	15 46.8	− 1.1
31	H.	.	8 42 27.97	+ 0.02	1 6.66	− 0.06	.	71 46 17.7	+ 0.2	15 46.8	− 1.2
Aug. 3	T.	.	8 54 5.82	+ 0.07	1 6.40	− 0.06	.	72 32 14.3	− 0.3	15 47.5	− 0.9
6	N.	.	9 5 38.35	+ 0.02	1 6.09	− 0.11	.	73 20 45.5	− 0.1	15 47.1	− 1.7
7	R.	.	9 9 28.10	+ 0.07	1 6.06	− 0.05	.	73 37 28.0	− 0.7	15 49.2	+ 0.3
9	R.	.	9 17 5.64	− 0.07	1 5.94	− 0.01	.	74 11 42.4	+ 0.3	15 49.0	− 0.2
10	H.	.	9 20 53.72	+ 0.03	1 5.80	− 0.07	.	74 29 13.4	+ 1.5	15 48.6	− 0.8
11	T.	.	9 24 41.14	+ 0.04	1 5.70	− 0.08	N.	74 46 56.3	− 0.3	....	...
15	T.	.	9 39 45.16	+ 0.05	1 5.36	− 0.10	.	76 0 16.4	− 1.6	15 50.2	− 0.1
16	R.	.	9 43 29.66	− 0.07	1 5.37	− 0.01	.	76 19 13.1	+ 0.7	15 51.6	+ 1.2
17	H.	.	9 47 13.76	− 0.06	1 5.33	+ 0.03	.	76 38 21.0	+ 1.3	15 49.3	− 1.3
18	T.	.	9 50 57.32	− 0.08	1 5.18	− 0.05	.	76 57 40.5	+ 0.7	15 50.6	− 0.2
20	N.	.	9 58 23.08	+ 0.08	1 5.00	− 0.09	.	77 36 55.9	− 0.6	15 49.3	− 1.9
21	R.	.	10 2 5.07	+ 0.02	1 5.00	− 0.03	.	77 56 53.2	+ 0.6	15 50.5	− 0.9
24	H.	.	10 13 8.50	+ 0.06	1 4.83	− 0.01	.	78 57 49.5	+ 1.3	15 52.1	0.0
25	T.	.	10 16 48.78	+ 0.08	1 4.75	− 0.03	.	79 18 28.0	− 0.2	15 53.1	+ 0.8

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1866.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Aug. 27	H.	.	10 24 8.13	+ 0.12	1 4.44	− 0.22	.	80 0 18.9	+ 0.3	15 51.3	− 1.4
30	H.	.	10 35 4.29	0.00	1 4.42	− 0.09	.	81 4 15.1	+ 0.3	15 52.3	− 1.1
Sept. 1	T.	.	10 42 20.32	+ 0.11	1 4.28	− 0.13	.	81 47 37.6	+ 1.4	15 53.5	− 0.3
3	T.	.	10 49 35.12	+ 0.10	1 4.26	− 0.06	.	82 31 30.5	+ 0.9	15 54.4	+ 0.1
8	T.	.	11 7 38.09	− 0.06	1 4.05	− 0.12	.	84 23 17.2	+ 1.2	15 53.5	− 1.9
10	N.	II	11 14 50.19	+ 0.04	....	....	N.	85 8 41.2	+ 0.5	....	....
12	T.	.	11 22 1.58	− 0.02	1 4.04	− 0.05	.	85 54 25.3	+ 0.1	15 56.7	+ 0.2
13	R.	.	11 25 37.15	− 0.02	1 4.04	− 0.04	.	86 17 25.4	+ 1.3	15 58.1	+ 1.4
15	R.	.	11 32 48.06	0.00	1 4.12	+ 0.05	.	87 3 33.9	+ 0.5	15 57.2	− 0.1
20	R.	.	11 50 44.86	+ 0.05	1 4.10	+ 0.03	.	88 59 47.6	− 0.4	15 56.9	− 1.7
22	N.	.	11 57.9	....	....	....	.	89 46 30.7	− 0.8	15 58.1	− 1.1
27	N.	.	12 15 55.30	− 0.01	1 4.15	− 0.07	.	91 43 31.9	+ 0.8	15 58.9	− 1.6
28	R.	I	12 19 31.51	− 0.29	....	....	.	92 6 55.6	+ 1.3	16 2.2	+ 1.4
Oct. 3	H.	.	12 37 38.33	− 0.11	1 4.45	− 0.02	.	94 3 29.8	+ 1.6	16 1.5	− 0.7
4	R.	.	12 41 16.67	− 0.07	1 4.48	− 0.04	.	94 26 39.5	− 0.1	16 2.3	+ 0.2
5	H.	.	12 44 55.43	+ 0.01	1 4.51	− 0.07	.	94 49 49.6	+ 0.8	16 1.3	− 1.4
6	N.	.	12 48 34.60	+ 0.11	1 4.56	− 0.07	.	95 12 54.5	+ 0.6	16 1.8	− 1.2
8	N.	.	12 55 53.94	+ 0.11	1 4.73	− 0.02	.	95 58 53.4	+ 1.1	16 2.5	− 1.0
9	R.	.	12 59 34.19	+ 0.03	1 4.82	0.00	.	96 21 46.6	+ 1.8	16 3.2	− 0.6
15	N.	.	13 21 46.24	+ 0.09	1 5.20	− 0.07	.	98 37 0.1	+ 0.6	16 4.1	− 1.4
17	H.	.	13 29 14.37	+ 0.01	1 5.40	− 0.04	.	99 21 10.5	+ 1.2	16 6.6	+ 0.6
18	R.	.	13 32 59.47	+ 0.14	1 5.48	− 0.05	.	99 43 1.8	− 0.3	16 5.6	− 1.0
19	H.	.	13 36 44.98	+ 0.08	1 5.52	− 0.10	.	100 4 46.7	+ 0.2	16 5.0	− 1.8
20	N.	.	13 40 31.20	+ 0.12	1 5.65	− 0.06	.	100 26 21.4	− 0.6	16 5.8	− 1.3
23	R.	II	13 51 53.41	− 0.14	....	....	N.	101 30 10.6	− 0.3	....	....
27	N.	.	14 7 13.29	− 0.02	1 6.34	− 0.08	.	102 52 47.5	− 0.4	16 6.7	− 2.0
Nov. 1	R.	.	14 26 40.38	+ 0.12	1 6.93	− 0.04	.	104 31 32.5	+ 1.0	16 9.9	0.0
2	H.	.	14 30 36.06	− 0.01	1 7.00	− 0.09	.	104 50 36.5	+ 0.7	16 9.5	− 0.7
5	N.	.	14 42.5	....	....	....	.	105 46 21.7	+ 1.1	16 8.2	− 2.7
6	R.	I	14 46 27.78	+ 0.10	....	....	.	106 4 24.4	− 0.3	16 11.7	+ 0.6
7	T.	.	14 50 27.68	0.00	1 7.68	0.00	.	106 22 14.3	+ 1.6	16 10.6	− 0.8
8	R.	.	14 54 28.61	+ 0.09	1 7.80	0.00	.	106 39 43.9	− 0.4	16 12.0	+ 0.4
9	H.	.	14 58 30.34	+ 0.13	1 7.87	− 0.05	.	106 57 0.2	+ 1.3	16 10.2	− 1.6
10	T.	.	15 2 32.70	− 0.04	1 8.01	− 0.03	.	107 13 56.8	+ 0.6	16 10.8	− 1.2
12	N.	.	15 10 40.54	+ 0.22	1 8.19	− 0.09	.	107 46 59.3	+ 2.2	16 11.2	− 1.3
13	R.	.	15 14 45.40	+ 0.02	1 8.36	− 0.04	.	108 2 59.5	− 0.3	16 12.4	− 0.3
21	T.	.	15 47 55.34	− 0.01	1 9.31	− 0.01	.	109 59 24.3	− 1.9	16 14.1	− 0.3
26	T.	II	16 9 5.27	+ 0.14	....	....	.	111 0 31.5	+ 1.0	16 13.4	− 1.9
27	R.	.	16 13 21.46	+ 0.08	1 9.87	− 0.09	.	111 11 35.3	+ 1.6	16 13.3	− 2.1
Dec. 1	R.	.	16 30 33.59	0.00	1 10.31	− 0.02	.	111 51 44.4	+ 0.2	16 14.9	− 1.1
3	R.	.	16 39 13.78	+ 0.05	1 10.45	− 0.04	.	112 9 19.1	− 0.6	16 15.5	− 0.8
4	R.	.	16 43 34.82	+ 0.08	1 10.56	− 0.01	.	112 17 28.5	− 0.5	16 15.9	− 0.5
5	N.	.	16 47.9	....	1 10.62	− 0.03	.	112 25 11.7	− 0.7	16 14.4	− 2.0
6	T.	.	16 52 18.44	+ 0.01	1 10.64	− 0.08	.	112 32 29.7	+ 0.2	16 14.5	− 2.2
7	R.	.	16 56 41.06	− 0.02	1 10.74	− 0.04	.	112 39 21.4	+ 1.2	16 15.7	− 1.1
10	R.	.	17 9 51.83	+ 0.01	1 10.98	+ 0.02	.	112 57 10.9	− 0.6	16 16.8	− 0.4
12	R.	.	17 18 41.10	+ 0.13	1 11.13	+ 0.07	.	113 6 48.9	− 0.8	16 17.5	+ 0.1
15	T.	.	17 31 57.10	+ 0.05	1 11.12	− 0.07	.	113 17 49.1	− 0.7	16 16.5	− 1.2
18	T.	II	17 45 15.10	− 0.02	....	....	.	113 24.6	....	....	....
19	R.	.	17 49 41.46	+ 0.01	1 11.28	0.00	.	113 25 57.9	− 0.2	16 18.3	+ 0.3
20	T.	.	17 54 7.95	+ 0.07	1 11.28	− 0.01	.	113 26 48.5	− 1.1	16 18.5	+ 0.4
27	T.	I	18 25 13.27	+ 0.15	....	....	.	113 19 37.7	0.0	16 18.7	+ 0.3
28	H.	.	18 29 39.30	+ 0.05	1 11.31	+ 0.08	.	113 16.7	....	....	....
1867.											
Jan. 9	H.	II	19 22 29.42	+ 0.06	....	....	.	112 5 58.2	− 0.9	16 18.5	+ 0.3
11	H.	.	19 31 11.44	+ 0.22	1 10.36	− 0.08	.	111 47 58.8	+ 0.2	16 16.7	− 1.5
12	T.	.	19 35 31.15	− 0.07	1 10.36	0.00	.	111 38 19.7	− 0.7	16 17.8	− 0.3
15	H.	.	19 48 27.32	+ 0.04	1 9.94	− 0.16	.	111 6 55.6	− 0.2	16 16.3	− 1.6
16	T.	.	19 52 44.69	+ 0.09	1 9.97	− 0.03	.	110 55 36.4	− 2.4	16 17.8	0.0

S U N—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1867.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Jan. 17	N.	.	19 57 1.42	+ 0.22	1 9.92	+ 0.02	.	110 43 55.0	− 2.9	16 17.0	− 0.8
18	H.	.	20 1 17.07	− 0.01	1 9.75	− 0.05	.	110 31 52.2	− 1.2	16 16.4	− 1.3
19	T.	.	20 5 32.16	− 0.06	1 9.77	+ 0.07	.	110 19 26.8	+ 1.3	16 18.0	+ 0.4
22	H.	.	20 18 13.20	+ 0.10	1 9.35	− 0.04	.	109 39 46.3	+ 0.3	16 16.9	− 0.4
23	T.	.	20 22 25.26	+ 0.05	1 9.30	+ 0.02	.	109 25 47.4	− 1.1	16 17.1	− 0.1
24	N.	.	20 26 36.63	+ 0.10	1 9.07	− 0.10	.	109 11 28.6	− 0.9	16 15.2	− 1.9
26	T.	.	20 34 56.76	− 0.05	1 8.92	− 0.03	.	108 41 48.0	− 0.5	16 16.8	− 0.0
28	N.	.	20 43 14.13	+ 0.20	1 8.68	− 0.05	.	108 10 44.2	− 1.4	16 15.4	− 1.2
29	H.	.	20 47 21.34	+ 0.05	1 8.50	− 0.12	.	107 54 43.4	− 1.2	16 16.2	− 0.2
30	T.	.	20 51 27.82	− 0.03	1 8.51	+ 0.01	.	107 38 23.9	− 0.6	16 16.0	− 0.3
31	N.	.	20 55 33.50	− 0.11	1 8.29	− 0.10	.	107 21 44.6	− 0.8	16 14.9	− 1.2
Feb. 1	H.	.	20 59 38.69	+ 0.13	1 8.20	− 0.07	.	107 4 49.2	+ 1.4	16 13.2	− 2.8
5	H.	.	21 15 50.12	− 0.05	1 7.70	− 0.11	.	105 54 2.3	+ 0.3	16 14.8	− 0.6
6	T.	.	21 19 51.02	0.00	1 7.68	− 0.02	.	105 35 38.0	− 0.7	16 15.4	+ 0.2
7	N.	.	21 23 51.24	+ 0.19	1 7.57	− 0.01	.	105 16 57.8	− 1.9	16 13.2	− 1.8
11	N.	.	21 39 43.16	+ 0.09	1 7.02	− 0.11	.	103 59 50.5	− 2.2	16 13.2	− 1.2
12	H.	.	21 43 39.12	+ 0.05	1 7.05	+ 0.03	.	103 40 0.3	− 0.2	16 13.8	− 0.3
13	T.	.	21 47.6	....	....	....	.	103 19 53.7	− 1.2	16 11.9	− 2.0
26	H.	.	22 37 28.16	+ 0.12	1 5.70	+ 0.05	.	98 41 31.9	+ 0.2	16 11.0	− 0.1
27	T.	.	22 41 13.97	− 0.04	1 5.58	+ 0.01	.	98 19 2.4	+ 1.0	16 11.2	+ 0.4
Mar. 11	N.	.	23 25 49.07	+ 0.06	1 4.73	− 0.09	.	93 41 21.6	+ 1.2	16 6.7	− 1.1
14	N.	.	23 36 49.22	+ 0.12	1 4.58	− 0.11	.	92 30.5	....	16 6.9	− 0.1
15	H.	.	23 40 28.42	− 0.14	1 4.74	+ 0.09	.	92 6 51.0	− 0.3	16 8.3	+ 1.8
18	N.	.	23 51 25.42	+ 0.12	1 4.65	+ 0.08	.	90 55 46.3	− 0.8	16 4.5	− 1.5
25	N.	II	0 16 53.40	+ 0.09	....	....	.	88 10.2	....	....	....
26	H.	.	0 20.5	....	....	....	.	87 46 41.8	+ 1.2	16 2.7	− 1.0
28	N.	.	0 27 47.52	+ 0.14	1 4.42	− 0.04	.	86 59 45.0	+ 0.3	16 2.3	− 0.9
29	H.	.	0 31 25.48	0.00	1 4.41	− 0.06	.	86 36 21.9	+ 0.3	16 1.7	− 1.2
30	T.	.	0 35 3.52	+ 0.13	1 4.50	+ 0.02	S.	86 13 2.9	+ 0.6	....	....
Apr. 1	N.	I	0 42 20.38	+ 0.13	....	....	.	85 26 36.5	− 0.1	16 1.8	− 0.2
2	H.	.	0 45 58.55	− 0.18	1 4.60	+ 0.08	.	85 3 30.5	− 0.4	16 1.4	− 0.4
3	T.	I	0 49 37.25	− 0.08	....	....	.	84 40 30.5	+ 0.2	16 2.3	+ 0.8
4	N.	.	0 53 16.14	+ 0.06	1 4.44	− 0.12	.	84 17 33.7	− 1.7	16 0.2	− 1.2
5	H.	.	0 56 54.98	− 0.01	1 4.58	− 0.01	.	83 54 46.7	+ 0.2	15 59.6	− 1.3
6	T.	.	1 0 34.08	0.00	1 4.70	+ 0.08	.	83 32 3.5	− 0.3	16 1.2	+ 0.5
8	N.	.	1 7 52.87	0.00	1 4.58	− 0.10	N.	82 46 58.8	0.0	....	....
9	H.	II	1 11 32.56	− 0.03	....	....	.	82 24 35.5	− 1.7	15 59.7	− 0.1
13	T.	.	1 26 13.92	− 0.09	1 4.98	+ 0.09	.	80 56 32.1	+ 0.2	15 59.1	+ 0.3
17	T.	.	1 41 0.31	− 0.01	1 5.10	0.00	.	79 30 52.2	+ 0.9	15 57.3	− 0.4
18	H.	.	1 44 42.79	− 0.01	1 5.08	− 0.08	.	79 9 51.7	+ 0.3	15 55.2	− 2.2
19	N.	.	1 48 25.67	0.00	1 5.11	− 0.11	.	78 49 0.9	− 1.2	15 54.1	− 3.1
20	T.	.	1 52 9.00	+ 0.04	1 5.22	− 0.06	.	78 28 24.0	− 0.1	15 56.5	− 0.4
22	H.	.	1 59.6	....	....	....	.	77 47 42.3	+ 0.7	15 55.2	− 1.2
23	H.	II	2 3 21.27	− 0.21	....	....	.	77 27 37.3	− 1.0	15 56.3	+ 0.2
26	H.	.	2 14 38.30	+ 0.03	1 5.72	+ 0.04	.	76 28 42.5	− 0.9	15 54.8	− 0.6
May 2	H.	I	2 37 25.82	− 0.17	....	....	.	74 37.0	....	....	....
6	N.	.	2 52 48.44	− 0.28	1 6.35	− 0.11	.	73 27 30.9	+ 1.8	15 50.4	− 2.6
9	N.	.	3 4 26.26	+ 0.05	1 6.56	− 0.14	.	72 38 15.2	+ 1.5	15 51.6	− 0.8
11	T.	.	3 12 14.67	+ 0.02	1 6.87	+ 0.01	.	72 6 50.5	+ 1.1	15 52.4	+ 0.5
13	N.	.	3 20 4.99	+ 0.07	1 6.94	− 0.10	.	71 36 35.9	− 1.6	15 49.9	− 1.6
14	T.	.	3 24 0.86	− 0.04	1 7.12	0.00	.	71 22 0.3	+ 1.1	15 51.5	+ 0.1
16	N.	.	3 31 54.60	+ 0.07	1 7.14	− 0.14	.	70 53 39.4	− 0.1	15 48.2	− 2.8
18	T.	.	3 39 50.38	+ 0.01	1 7.39	− 0.05	.	70 26 37.7	+ 0.1	15 50.4	− 0.2
24	H.	.	4 3 51.28	+ 0.02	1 7.86	− 0.04	.	69 13 36.1	− 0.6	15 49.3	− 0.2
29	H.	.	4 24 6.55	+ 0.05	1 8.16	− 0.06	.	68 22 32.4	+ 0.7	15 47.7	− 1.0
30	T.	.	4 28.2	....	....	....	.	68 13 25.8	+ 2.1	15 45.9	− 2.7
31	N.	.	4 32 16.07	0.00	1 8.28	− 0.06	.	68 4 40.3	+ 0.7	15 47.5	− 0.9
June 1	N.	.	4 36 21.50	+ 0.04	1 8.38	− 0.02	.	67 56 17.0	− 1.2	15 46.2	− 2.1
4	T.	.	4 48 39.92	− 0.06	1 8.57	+ 0.01	.	67 33.5	....	....	....

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1867.			h m s	s	m s	s		° ′ ″	″	′ ″	″
June 5	H.	.	4 52 46.92	+ 0.06	1 8.58	− 0.03	.	67 26 43.8	− 0.6	15 46.2	− 1.6
10	N.	.	5 13 25.80	+ 0.16	1 8.70	− 0.12	.	66 58 40.0	− 0.7	15 45.4	− 1.8
11	T.	.	5 17 34.11	0.00	1 8.81	− 0.04	.	66 54.3	....	....	....
13	N.	.	5 25 51.74	+ 0.11	1 8.80	− 0.09	.	66 46 40.4	− 0.8	15 45.2	− 1.8
14	H.	II	5 30 0.55	− 0.08	....	....	N.	66 43 31.8	+ 1.4	....	....
15	T.	.	5 34 9.78	+ 0.02	1 8.92	− 0.01	.	66 40.7	....	....	....
20	N.	.	5 54 56.77	+ 0.05	1 8.96	− 0.02	.	66 33 2.6	− 1.6	15 44.7	− 1.8
21	H.	.	5 59 6.31	+ 0.07	1 8.99	+ 0.01	.	66 32 46.8	+ 0.3	15 45.7	− 0.7
28	H.	.	6 28 11.48	− 0.01	1 8.86	− 0.01	.	66 42 14.8	− 1.6	15 44.8	− 1.4
29	T.	II	6 32 20.32	0.00	....	....	.	66 45 15.8	− 0.6	15 46.0	− 0.1
July 1	N.	.	6 40 37.26	− 0.11	1 8.71	− 0.07	.	66 52 28.9	− 0.6	15 44.8	− 1.3
2	H.	.	6 44 45.54	+ 0.01	1 8.70	− 0.05	.	66 56 40.4	− 2.2	15 47.4	+ 1.3
3	T.	II	6 48 53.51	+ 0.10	....	....	.	67 1 18.3	− 1.5	15 46.1	0.0
5	H.	.	6 57 8.32	+ 0.07	1 8.54	− 0.08	.	67 11 45.4	− 0.7	15 45.0	− 1.1
6	T.	.	7 1 15.22	+ 0.06	1 8.42	− 0.15	.	67 17 36.0	+ 1.0	15 44.0	− 2.1
8	N.	.	7 9 28.03	+ 0.20	1 8.41	− 0.06	.	67 30 24.2	+ 0.8	15 45.2	− 1.0
9	H.	.	7 13 33.58	+ 0.02	1 8.48	+ 0.06	.	67 37 21.7	− 1.0	15 45.8	− 0.4
10	T.	.	7 17 38.87	0.00	1 8.38	+ 0.02	.	67 44 43.5	− 1.6	15 44.3	− 2.0
11	N.	.	7 21 43.81	+ 0.08	1 8.15	− 0.15	.	67 52 30.6	0.0	15 44.2	− 2.1
15	N.	.	7 37 58.54	+ 0.07	1 7.95	− 0.08	.	68 27 18.2	− 0.4	15 45.5	− 1.0
20	T.	I	7 58 5.49	− 0.04	....	....	.	69 19.0	....	....	....
22	N.	.	8 6 4.62	0.00	1 7.40	− 0.09	.	69 42 11.4	− 0.7	15 45.1	− 1.9
23	H.	.	8 10 3.32	0.00	1 7.36	− 0.05	.	69 54 18.4	+ 0.7	15 46.2	− 0.9
24	T.	.	8 14 1.50	0.00	1 7.38	+ 0.05	.	70 6 44.0	+ 0.7	15 47.0	− 0.2
25	N.	.	8 17 59.14	+ 0.05	1 7.16	− 0.08	.	70 19 28.9	+ 0.1	15 45.3	− 1.9
27	T.	.	8 25 52.54	− 0.01	1 7.08	+ 0.01	.	70 45 59.5	+ 0.6	15 47.2	− 0.4
30	H.	.	8 37 38.38	+ 0.02	1 6.86	− 0.04	.	71 28 27.5	+ 0.8	15 47.6	− 0.2
31	T.	.	8 41 32.44	0.00	1 6.71	− 0.02	.	71 42 46.9	+ 0.8	15 47.5	− 0.4
Aug. 2	H.	.	8 49 18.84	+ 0.08	1 6.46	− 0.10	.	72 13 0.2	+ 1.6	15 48.3	+ 0.1
5	N.	.	9 0 53.70	+ 0.07	1 6.24	− 0.07	.	73 0 26.7	− 0.4	15 46.6	− 2.0
6	H.	.	9 4 43.90	− 0.12	1 6.16	− 0.06	.	73 16 51.5	+ 1.6	15 49.8	+ 1.1
7	T.	.	9 8 33.80	+ 0.01	1 6.14	0.00	.	73 33 28.9	+ 0.1	15 47.8	− 1.1
10	T.	.	9 19 59.57	+ 0.08	1 5.84	− 0.04	.	74 24 59.8	+ 0.2	15 47.9	− 1.5
12	N.	.	9 27 33.79	+ 0.11	1 5.59	− 0.13	.	75 0 35.3	+ 0.1	15 47.3	− 2.4
13	H.	.	9 31 19.92	0.00	1 5.56	− 0.08	.	75 18 43.1	− 1.6	15 49.8	− 0.1
14	T.	.	9 35 5.74	+ 0.14	1 5.56	0.00	.	75 37 7.6	− 0.6	15 48.7	− 1.4
19	H.	.	9 53 45.90	− 0.25	1 5.09	− 0.08	N.	77 12 26.9	+ 0.7	....	...
20	R.	.	9 57 28.69	− 0.09	1 5.11	+ 0.01	.	77 32 8.6	+ 1.0	15 51.4	+ 0.2
24	T.	.	10 12 14.76	− 0.11	1 4.89	+ 0.05	:	78 52 48.2	− 1.6	15 52.3	+ 0.4
26	R.	II	10 19 35.48	+ 0.05	....	....	S.	79 34 15.0	− 0.8	....	...
27	H.	.	10 23 15.15	+ 0.02	1 4.61	− 0.05	.	79 55.2	...	....	...
28	T.	II	10 26 54.49	+ 0.03	....	....	S.	80 16 23.1	+ 1.1	....	...
29	R.	.	10 30 33.50	+ 0.07	1 4.54	− 0.02	.	80 37 39.9	+ 0.7	15 53.2	+ 0.2
30	H.	.	10 34 12.10	+ 0.04	1 4.44	− 0.07	.	80 59 4.3	− 1.0	15 53.6	+ 0.4
31	T.	.	10 37 50.40	+ 0.05	1 4.48	+ 0.02	.	81 20 39.1	− 1.1	15 52.4	− 1.1
Sept. 4	T.	II	10 52 20.50	+ 0.04	....	....	.	82 48 19.2	− 0.2	15 54.4	0.0
6	N.	II	10 59 33.91	+ 0.04	....	....	N.	83 32 54.2	+ 2.0	....	....
7	T.	.	11 3.2	....	....	....	S.	83 55 20.6	+ 2.4	....	....
10	H.	.	11 13 58.32	+ 0.18	1 4.09	− 0.04	.	85 3 10.6	− 0.1	15 56.0	+ 0.1
11	T.	.	11 17 33.75	− 0.04	1 4.08	− 0.03	.	85 26.0	....	....	....
12	N.	.	11 21 9.32	0.00	1 3.97	− 0.12	.	85 48 50.6	− 0.8	15 55.2	− 1.2
13	H.	.	11 24 44.90	+ 0.15	1 3.98	− 0.10	.	86 11 48.1	− 0.6	15 55.8	− 0.9
18	T.	.	11 42 41.20	0.00	1 4.00	− 0.06	.	88 7 29.2	0.0	15 59.2	+ 0.2
19	N.	II	11 46 16.60	+ 0.08	....	....	S.	88 30 47.4	+ 1.4	....	....
24	T.	.	12 4 14.42	− 0.02	1 4.08	− 0.05	.	90 27.6	....	....	....
27	H.	.	12 15.0	....	....	....	N.	91 37 50.5	0.0	....	....
30	N.	.	12 25 53.46	+ 0.07	1 4.30	− 0.02	S.	92 48 1.5	+ 2.1	....	....
Oct. 1	H.	.	12 29 30.72	+ 0.03	1 4.38	+ 0.02	.	93 11 20.3	+ 1.0	16 1.4	− 0.1
2	T.	.	12 33 8.30	+ 0.03	1 4.44	+ 0.04	S.	93 34 37.1	0.0	....	....

S U N—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1867.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Oct. 8	H.	.	12 55 0.66	+ 0.01	1 4.66	— 0.07	.	95 53 21.7	+ 2.0	16 3.4	— 0.1
9	T.	.	12 58.7	....	....	....	S.	96 16 11.9	— 0.6	....	....
10	H.	.	13 2 21.23	+ 0.01	1 4.83	— 0.04	.	96 39 0.7	+ 0.4	16 55.6	+ 1.6
14	H.	II	13 17 7.95	— 0.07	....	....	.	98 9 13.4	— 0.8	16 2.3	— 2.8
15	A.	II	13 20 51.04	+ 0.01	....	....	S.	98 31 31.5	— 0.1	....	....
16	T.	.	13 24 34.75	+ 0.13	1 5.29	— 0.04	.	98 53 41.3	— 0.5	16 7.2	+ 1.5
17	H.	.	13 28 18.90	+ 0.09	1 5.36	— 0.06	.	99 15 43.9	— 0.5	16 3.7	— 2.2
19	T.	.	13 35 49.06	+ 0.04	1 5.54	— 0.06	.	99 59 26.2	+ 0.9	16 4.9	— 1.6
23	H.	.	13 50 57.33	— 0.05	1 5.95	— 0.03	.	101 25.0	....	....	....
24	A.	II	13 54 46.32	+ 0.12	....	....	S.	101 45 58.9	— 0.2	....	....
25	H.	.	13 58 35.82	+ 0.09	1 6.12	— 0.06	.	102 6 47.1	— 0.3	16 5.1	— 2.9
26	H.	..	14 2 25 96	— 0.03	1 6.28	0.00	.	102 27 25.4	+ 0.8	16 8.7	+ 0.4
Nov. 1	A.	.	14 25 43.32	— 0.10	1 6.92	— 0.02	.	104 26 51.3	— 0.7	16 11.4	+ 1.5
5	A.	I	14 41 30.73	+ 0.09	....	....	.	105 41 55.5	+ 0.1	16 10.6	— 0.2
8	A.	.	14 53 29.51	— 0.04	1 7.76	— 0.02	.	106 35 28.0	— 1.7	16 12.1	+ 0.5
11	H.	.	15 5 36.12	+ 0.15	1 8.06	— 0.08	.	107 26 31.6	— 0.5	16 11.6	— 0.6
12	A.	I	15 9 39.92	+ 0.11	....	....	.	107 43.0	....	....	....
15	A.	.	15 21 56.69	+ 0.21	1 8.50	— 0.11	.	108 30 22.6	+ 1.7	16 13.9	+ 0.8
16	T.	.	15 26 3.65	— 0.10	1 8.71	— 0.02	.	108 45 30.0	— 0.1	16 12.4	— 0.9
18	H.	.	15 34 20.88	0.00	1 8.92	— 0.04	.	109 14 48.8	+ 0.5	16 11.5	— 0.2
19	A.	.	15 38 30.74	+ 0.03	1 8.98	— 0.09	.	109 28 56.8	— 0.7	16 13.8	— 0.1
20	T.	.	15 42 41.44	+ 0.05	1 9.10	— 0.08	.	109 42 42.6	— 1.0	16 15.5	+ 1.4
26	A.	.	16 8 2.76	+ 0.25	1 9.71	— 0.11	S.	110 57 42.6	— 1.3	....	....
27	T.	.	16 12 18.82	+ 0.09	1 9.86	— 0.06	.	111 8.9	....	....	....
30	T.	.	16 25 11.62	+ 0.02	1 10.18	— 0.03	N.	111 39 58.6	+ 1.2	....	....
Dec. 5	H.	.	16 46 52.44	+ 0.06	1 10.52	— 0.11	.	112 23 24.4	+ 1.7	16 16.1	— 0.5
7	T.	.	16 55 36.68	+ 0.10	1 10.71	— 0.06	.	112 37 42.9	— 0.4	16 17.5	+ 0.7
9	H.	II	17 4 22.69	0.00	....	....	.	112 50 17.0	— 0.4	16 16.0	— 1.1
13	A.	II	17 22 0.09	+ 0.18	....	....	.	113 10.0	....	....	....
16	H.	.	17 35 16 38	+ 0.02	1 11.14	— 0.07	.	113 19 56.9	+ 1.0	....	....
19	H.	.	17 48 35.06	+ 0.11	1 11.22	— 0.05	.	113 25 39.5	— 0.8	16 15.2	— 2.7
23	H.	.	18 6 21.68	+ 0.18	1 11.15	— 0.15	.	113 26 44.5	+ 0.1	16 16.8	— 1.4
26	H.	.	18 19 41.54	+ 0.09	1 11.24	— 0.03	.	113 22 36.0	+ 0.3	16 16.2	— 2.1
1868.											
Jan. 30	N.	.	20 50 27.64	— 0.03	1 8.50	— 0.03	.	107 42.5	....	....	....
31	N.	.	20 54 33.74	+ 0.15	1 8.37	— 0.04	.	107 25 51.0	— 2.2	16 13.9	— 2.3
Feb. 7	A.	.	21 22 51.62	+ 0.17	1 7.54	— 0.07	.	105 21 39.1	— 0.9	16 12.7	— 2.4
11	A.	.	21 38 43.92	+ 0.20	1 7.20	+ 0.04	.	104 4.8	....	....	....
12	Ha.	.	21 42 40.00	+ 0.11	1 6.92	— 0.13	.	103 45.0	....	....	....
13	E.	.	21 46 35.06	— 0.22	1 6.93	— 0.01	.	103 24 57.9	— 0.4	16 15.0	+ 1.0
14	A.	.	21 50 30.00	+ 0.06	1 6.74	— 0.09	.	103 4.7	....	....	....
15	E.	.	21 54 23.73	— 0.15	1 6.73	+ 0.01	.	102 44 16.2	+ 1.5	16 14.4	+ 0.8
18	A.	.	22 6 1.38	— 0.07	1 6.30	— 0.12	.	101 41 34.8	— 2.9	16 13.5	+ 0.6
19	Ha.	.	22 9 52.58	— 0.03	1 6.21	— 0.11	.	101 20 20.6	— 2.1	16 11.6	— 1.1
20	E.	.	22 13 43.11	0.00	1 6.28	+ 0.06	.	100 58 54.0	— 3.0	16 11.5	— 1.0
22	N.	.	22 21.4	....	....	....	.	100 15 36.6	+ 1.5	16 9.6	— 2.4
Mar. 10	A.	.	23 24 53.88	— 0.02	1 4.78	— 0.05	.	93 47.2	....	....	....
18	Ha.	.	23 54 9.72	+ 0.04	1 4.56	+ 0.01	.	90 37 57.0	— 2.0	16 5.2	— 0.5
19	E.	.	23 57 48.28	— 0.02	1 4.56	+ 0.03	.	90 14.3	....	....	....
23	A.	.	0 12 21.77	+ 0.04	1 4.45	— 0.02	S.	88 39 33.7	— 2.6	....	....
31	A.	.	0 41 27.07	+ 0.06	1 4.45	— 0.04	.	85 32 13.9	— 2.0	16 1.9	— 0.2
Apr. 1	Ha.	.	0 45 5.25	— 0.11	1 4.43	— 0.08	S.	85 9 6.2	— 3.0	....	....
4	N.	.	0 56 1.18	+ 0.04	1 4.54	— 0.05	.	84 0 22.0	— 0.1	15 58.6	— 2.4
6	N.	.	1 3 19.12	+ 0.02	1 4.56	— 0.09	.	83 15 1.0	— 0.4	15 58.0	— 2.5
8	N.	.	1 10 37.95	+ 0.01	1 4.69	— 0.02	.	82 30 8.8	+ 0.3	15 58.6	— 1.4
18	N.	.	1 47 30.54	— 0.02	1 5.10	— 0.10	.	78 54 10.0	— 0.1	15 56.7	— 0.5
23	E.	.	2 6 11.84	+ 0.12	1 5.48	— 0.05	.	77 12 36.1	— 1.4	15 56.5	+ 0.6
24	A.	.	2 9 57.29	— 0.02	1 5.54	— 0.06	.	76 52 54.2	— 1.0	15 56.4	+ 0.7
27	N.	.	2 21 17.16	+ 0.21	1 5.68	— 0.13	.	75 55 6.7	— 0.8	15 52.7	— 2.3

S U N—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1868.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Apr. 28	E.	.	2 25 4.40	− 0.08	1 5.85	− 0.04	.	75 36 17.7	− 1.1	15 54.8	+ 0.1
30	N.	.	2 32 41.12	+ 0.06	1 5.93	− 0.11	.	74 59 23.8	− 1.2	15 52.6	− 1.6
May 1	N.	.	2 36 30.22	+ 0.10	1 6.02	− 0.10	.	74 41 19.6	− 0.6	15 52.2	− 1.8
2	E.	.	2 40 19.80	+ 0.09	1 6.14	− 0.06	.	74 23 29.5	− 1.1	15 53.2	− 0.6
9	E.	.	3 7 22.04	− 0.27	....	....	.	72 26 14.0	− 1.3	15 51.4	− 0.8
11	N.	.	3 15 11.14	+ 0.06	1 6.78	− 0.16	.	71 55 17.2	− 1.8	15 50.4	− 1.4
12	A.	.	3 19 6.32	− 0.04	1 6.90	− 0.12	.	71 40 16.9	− 1.0	15 48.9	− 2.7
14	N.	.	3 26 58.80	+ 0.10	1 7.05	− 0.13	.	71 11 9.5	− 1.3	....	....
18	N.	.	3 42 50.52	+ 0.09	1 7.34	− 0.16	.	70 16 46.7	− 0.2	15 48.2	− 2.2
21	N.	.	3 54 50.18	+ 0.02	1 7.60	− 0.13	.	69 39 26.5	− 1.7	15 47.5	− 2.4
22	A.	.	3 58 51.08	− 0.08	1 7.68	− 0.12	.	69 27 44.3	+ 1.0	15 49.9	+ 0,2
25	N.	.	4 10 57.29	+ 0.07	1 7.90	− 0.12	.	68 54 35.4	− 0.8	15 46.9	− 2.3
26	A.	.	4 15 0.15	− 0.06	1 8.07	− 0.02	.	68 44 15.9	− 1.2	15 49.1	0.0
27	E.	.	4 19 4.74	+ 0.09	1 8.12	− 0.03	.	68 34 19.4	− 0.6	15 48.8	− 0.1
29	A.	.	4 27 11.99	+ 0.11	1 8.16	− 0.11	.	68 15 34.2	− 1.4	15 47.8	− 0.8
June 1	N.	.	4 39 27.42	+ 0.09	1 8.38	− 0.07	.	67 50 12.4	− 0.1	15 47.1	− 1.1
4	N.	.	4 51 46.14	− 0.02	1 8.54	− 0.06	.	67 28 19.7	− 1.0	15 45.3	− 2.5
6	T.	.	5 0 0.40	+ 0.04	1 8.60	− 0.09	.	67 15 44.2	− 0.2	15 47.0	− 0.6
8	N.	.	5 8 16.01	+ 0.13	1 8.71	− 0.07	.	67 4 42.4	− 1.2	15 45.2	− 2.2
9	E.	II	5 12 23.98	− 0.05	....	....	.	66 59.8	....	....	....
12	E.	.	5 24 49.92	− 0.01	1 8.84	− 0.05	.	66 47 30.6	− 1.6	15 47.8	+ 0.8
13	T.	.	5 28 58.98	+ 0.02	1 9.00	+ 0.09	.	66 44 12.8	− 2.6	15 46.8	− 0.1
15	N.	.	5 37 17.62	+ 0.12	1 8.90	− 0.04	.	66 38 55.3	− 0.3	15 44.9	− 1.8
18	N.	.	5 49 46.26	+ 0.08	1 8.88	− 0.09	.	66 33 59.6	− 1.3	15 44.6	− 1.9
19	E.	.	5 53 55.88	+ 0.03	1 8.89	− 0.08	.	66 33 10.8	− 1.5	15 46.2	− 0.3
20	T.	.	5 58 5.57	+ 0.05	1 8.90	− 0.07	.	66 32 49.0	+ 0.5	15 46.7	+ 0.3
22	N.	.	6 6 24.93	+ 0.14	1 8.88	− 0.09	.	66 33 13.3	− 1.8	15 44.2	− 2.8
23	E.	.	6 10 34.38	+ 0.05	1 8.92	− 0.04	.	66 34 6.4	+ 0.7	15 47.0	− 0.7
24	T.	.	6 14 43.79	+ 0.01	1 8.98	+ 0.03	.	66 35.4	....	....	....
26	E.	.	6 23.0	....	....	....	.	66 39 7.0	+ 1.5	15 46.5	+ 0.3
29	N.	.	6 35 28.64	+ 0.05	1 8.76	− 0.06	.	66 47 44.2	− 2.8	15 45.5	− 0.6
July 1	T.	.	6 43 45.00	+ 0.04	1 8.72	− 0.04	.	66 55 35.4	− 1.2	15 45.0	− 1.2
2	N.	.	6 47 52.81	+ 0.07	1 8.62	− 0.10	.	67 0 7.0	− 0.8	15 44 0	− 2.2
3	E.	II	6 52 0.51	+ 0.13	....	....	.	67 5 2.5	− 0.6	15 44.3	− 1.9
4	T.	.	6 56 7.39	+ 0.02	1 8.60	− 0.04	.	67 10.4	....	....	....
6	N.	.	7 4.3	....	1 8.49	− 0.05	.	67 22 10.6	− 1.4	15 44.2	− 2.0
7	E.	.	7 8 26.81	0.00	1 8.52	+ 0.03	.	67 28 42.3	0.0	15 44.7	− 1.5
11	T.	.	7 24 47.36	− 0.04	1 8.23	− 0.02	.	67 58 36.4	+ 1.0	15 45.7	− 0.6
13	N.	.	7 32 55.17	+ 0.02	1 7.98	− 0.13	.	68 15 46.2	− 2.7	15 44.6	− 1.8
14	E.	.	7 36 58.41	+ 0.07	1 8.00	− 0.04	.	68 24 57.6	− 1.7	15 46.0	− 0.4
15	T.	.	7 41 1.19	+ 0.14	1 7.89	− 0.08	.	68 34 31.6	0.0	15 45.9	− 0.6
16	N.	.	7 45 3.20	− 0.06	1 7.85	− 0.05	.	68 44 24.9	− 0.8	15 44.8	− 1.8
17	E.	.	7 49 5.14	+ 0.17	1 7.84	+ 0.02	.	68 54 40.3	− 1.5	15 46.2	− 0.4
18	T.	.	7 53 6.22	+ 0.06	1 7.72	− 0.03	.	69 5 18.1	− 1.1	15 46.3	− 0.4
21	E.	.	8 5.1	....	....	....	S.	69 39 17.5	0.0	....	....
22	T.	I	8 9 5.58	+ 0.20	....	....	.	69 51.3	....	....	....
23	N.	.	8 13 3.85	+ 0.10	1 7.25	− 0.10	.	70 3 38.2	− 0.8	15 45.2	− 1.9
28	E.	II	8 32 46.67	+ 0.20	....	....	.	71 10 17.1	+ 0.4	15 47.1	− 0.6
Aug. 5	T.	.	9 3 46.96	+ 0.18	1 6.14	− 0.11	S.	73 12 47.0	+ 3.3	....	....
6	F.	II	9 7 36.59	− 0.02	....	....	.	73 29.3	....	....	....
12	T.	.	9 30 23.72	+ 0.01	1 5.62	− 0.03	.	75 14 12.3	− 0.4	15 49.5	− 0.3
14	E.	.	9 37 54.94	− 0.12	1 5.55	+ 0.06	.	75 51.1	....	....	....
15	T.	.	9 41 39.96	+ 0.01	1 5.32	− 0.09	.	76 9 57.4	+ 1.7	15 51.6	+ 1.3
17	F.	.	9 49 8.44	+ 0.24	1 5.30	+ 0.05	.	76 48 11.7	+ 0.7	15 51.6	+ 0.9
18	E.	.	9 52 51.72	+ 0.15	1 5.08	− 0.10	.	77 7 37.8	0.0	15 51.8	+ 0.9
27	F.	II	10 26 0.96	− 0.02	....	....	.	80 11.2	....	....	....
29	T.	.	10 33 18.62	+ 0.14	1 4.42	− 0.11	N.	80 53 47.8	− 0.4	....	....
Sept. 5	T.	.	10 58 39.90	− 0.03	1 4.18	− 0.05	.	83 27 19.0	+ 0.6	15 54.7	− 0.2
7	T.	.	11 5.9	....	....	....	.	84 12 14.8	+ 1.6	15 56.7	+ 1.3

S U N—Continued.

Date.		Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
1868.				h	m	s	s	m	s	s		°	′	″	″	′	″	″
Sept.	8	Ha.	.	11	9	28.36	− 0.17	1	4.14	− 0.01	.	84	34	49.4	− 0.2	15	55.0	− 0.6
	10	F.	II	11	16	40.22	+ 0.02		....	....	.	85	20.3	....	....		....	....
	11	F.	.	11	20	15.87	0.00	1	4.10	+ 0.01	N.	85	43	9.9	− 0.6		....	....
	12	T.	.	11	23	51.44	− 0.02	1	4.03	− 0.05	.	86	6	7.9	+ 0.7	15	55.6	− 1.0
	18	T.	.	11	45	24.28	+ 0.10	1	4.02	− 0.04	.	88	25	4.6	− 0.1	15	58.3	+ 0.1
	19	F.	.	11	48	59.74	+ 0.10	1	4.08	+ 0.01	.	88	48	24.7	+ 0.9	15	56.5	− 2.0
	21	T.	I	11	56	10.79	+ 0.04		....	....	.	89	35.1	....	....		....	....
	25	F.	.	12	10.6	....	....		....	....	S.	91	8	40.7	− 3.6		....	....
	28	F.	II	12	21	23.50	+ 0.14		....	....	.	92	18	56.2	+ 1.1	16	0.4	− 0.5
Oct.	1	T.	.	12	32	14.66	− 0.02	1	4.39	0.00	.	93	28	55.5	+ 1.3	16	3.2	+ 1.4
	6	F.	.	12	50	26.54	− 0.11	1	4.62	− 0.04	.	95	24	41.5	+ 0.6	16	2.4	− 0.7
	7	T.	.	12	54	6.22	0.00	1	4.66	− 0.06	.	95	47	39.5	0.0	16	3.8	+ 0.4
	9	F.	.	13	1.4	....	....		....	....	.	96	33	25.6	+ 2.5	16	5.9	+ 2.0
	12	N.	.	13	12	31.14	+ 0.03	1	4.98	− 0.09	.	97	41	20.6	+ 1.5	16	3.3	− 1.5
	13	F.	.	13	16	13.54	− 0.07	1	5.12	− 0.03	.	98	3	45.5	− 0.1	16	4.2	− 0.8
	17	T.	.	13	31	9.34	+ 0.06	1	5.49	0.00	.	99	32	29.5	+ 0.1	16	6.8	+ 0.7
	19	E.	.	13	38	40.69	− 0.01	1	5.69	+ 0.02	.	100	15	51.6	+ 0.6	16	7.0	+ 0.3
	23	F.	II	13	53	51.13	− 0.06		....	....	.	101	40	59.3	+ 1.5	16	8.5	+ 0.7
	24	T.	.	13	57	40.54	+ 0.05	1	6.11	− 0.05	.	102	1	46.5	− 2.4	16	7.4	− 0.7
	26	E.	II	14	5	21.24	+ 0.02		....	....	N.	102	42	55.6	− 1.3		....	....
	28	T.	.	14	13	4.78	− 0.08	1	6.64	+ 0.05	.	103	23	17.1	− 0.1	16	10.3	+ 1.4
	29	E.	.	14	16	57.71	− 0.09	1	6.81	+ 0.11	.	103	43	8.1	− 0.3	16	10.9	+ 1.5
	30	F.	II	14	20	51.53	+ 0.02		....	....	.	104	2	45.7	− 0.8	16	10.2	+ 0.6
Nov.	3	E.	.	14	36	34.30	− 0.07	1	7.30	+ 0.03	.	105	19	2.5	+ 2.3	16	11.1	+ 0.5
	4	T.	.	14	40	32.18	+ 0.03	1	7.28	− 0.11	.	105	37	24.4	− 2.5	16	9.1	− 1.7
	7	T.	.	14	52	30.57	− 0.04	1	7.70	− 0.05	.	106	31	13.3	+ 0.3	16	12.1	+ 0.6
	10	E.	.	15	4	36.81	− 0.02	1	7.96	− 0.15	.	107	22	28.7	− 0.6	16	9.5	− 2.7
	11	T.	.	15	8	40.60	− 0.04	1	8.22	− 0.01	.	107	39	0.8	+ 1.4	16	13.2	+ 0.8
	12	N.	.	15	12	45.34	+ 0.03	1	8.30	− 0.05	.	107	55	12.1	+ 0.7	16	10.2	− 2.4
	13	E.	.	15	16	50.84	0.00	1	8.42	− 0.05	.	108	11	4.2	− 0.6	16	14.4	+ 1.6
	14	T.	.	15	20	57.28	+ 0.06	1	8.46	− 0.14	.	108	26	36.9	− 2.2	16	11.6	− 1.4
	18	T.	.	15	37	31.28	+ 0.10	1	9.04	+ 0.01	.	109	25	36.3	− 0.4	16	14.6	+ 0.8
	19	N.	.	15	41	41.74	+ 0.01	1	9.02	− 0.13	.	109	39	28.6	− 0.8	16	12.9	− 1.2
	23	N.	.	15	58	31.78	+ 0.06	1	9.58	− 0.01	.	110	31	23.9	+ 2.1	16	13.6	− 1.2
	28	T.	.	16	19	51.05	− 0.04	1	10.08	− 0.02	.	111	27	35.3	+ 0.6	16	14.6	− 1.1
Dec.	2	F.	.	16	37	7.08	+ 0.11	1	10.40	− 0.06	.	112	5	14.6	+ 0.5	16	14.1	− 2.2
	3	N.	.	16	41	27.64	+ 0.11	1	10.43	− 0.11	.	112	13	36.3	+ 0.6	16	13.1	− 3.3
	9	T.	.	17	7	42.48	− 0.08	1	11.02	+ 0.08	.	112	54	36.0	+ 1.4	16	17.8	+ 0.7
	10	N.	.	17	12	6.91	+ 0.14	1	10.99	0.00	.	112	59	51.1	+ 0.5	16	15.7	− 1.5
	12	T.	.	17	20	56.49	− 0.13	1	11.02	− 0.07	.	113	9	1.8	+ 1.1	16	18.4	+ 1.0
	18	F.	.	17	47	31.91	+ 0.05	1	11.35	+ 0.11	.	113	25	24.2	+ 0.6	16	15.7	− 2.2
	19	T.	.	17	51	58.54	+ 0.11	1	11.18	− 0.10	.	113	26	27.7	− 1.3	16	19.1	+ 1.1
	21	N.	.	18	0	51.56	− 0.05	1	11.27	− 0.03	.	113	27	15.6	+ 0.8	16	15.6	− 2.5
	22	F.	.	18	5	18.30	+ 0.06	1	11.32	+ 0.02	.	113	26	54.2	− 1.1	16	15.9	− 2.3
	23	T.	.	18	9	44.97	+ 0.14	1	11.30	0.00	.	113	26	7.7	+ 0.3	16	18.8	+ 0.6
1869.																		
Jan.	6	N.	.	19	11	36.80	+ 0.25	1	10.64	− 0.13	.	112	25	58.4	− 2.1	16	16.4	− 1.9
	7	F.	.	19	15	59.18	+ 0.11	1	10.72	+ 0.02	.	112	18.3	....	....		....	....
	8	N.	.	19	20	21.30	+ 0.22	1	10.57	− 0.06	.	112	10	11.4	+ 2.0	16	15.2	− 3.0
	13	N.	.	19	42	2.78	+ 0.04	1	10.20	− 0.03	.	111	22	59.1	− 1.1	16	16.4	− 1.6
	16	F.	.	19	54	56.30	+ 0.22	1	9.98	− 0.07	.	110	49.7	....	....		....	....
	20	N.	.	20	11	57.09	+ 0.08	1	9.46	− 0.09	.	109	59	50.4	− 1.3	16	16.5	− 0.9
	23	F.	.	20	24	34.52	− 0.01	1	9.13	− 0.10	.	109	18	27.8	− 3.6	16	13.3	− 3.8
	26	F.	.	20	37	4.74	− 0.03	1	8.90	0.00	.	108	33	57.8	− 2.0	16	17.0	+ 0.2
	28	F.	.	20	45	20.95	+ 0.11	1	8.65	− 0.02	.	108	2	36.7	− 0.8	16	13.6	− 2.9
Feb.	1	N.	.	21	1	43.40	+ 0.20	1	8.16	− 0.05	.	106	56	1.8	− 1.6	16	14.4	− 1.5
	6	T.	.	21	21	53.05	+ 0.01	1	7.57	− 0.07	.	105	26	12.0	− 1.1	16	14.6	− 0.5
	8	N.	.	21	29.9	....	....	1	7.31	− 0.10	.	104	48.4	....	....		....	....
	11	N.	.	21	41	43.24	+ 0.09	1	7.02	− 0.05	.	103	49	49.6	+ 0.6	16	12.4	− 1.8

S U N – Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1869.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Feb. 12	F.	.	21 45 38.86	+ 0.01	1 6.94	− 0.02	.	103 29 49.0	− 0.7	16 13.0	− 1.0
13	T.	.	21 49 33.73	− 0.06	1 6.82	− 0.03	.	103 9 36.3	− 0.7	16 14.4	+ 0.6
16	F.	.	22 1 14.16	+ 0.04	1 6.60	− 0.06	.	102 7 43.5	− 0.6	16 11.7	− 1.5
18	N.	.	22 8 57.43	+ 0.09	1 6.27	− 0.07	.	101 25 30.9	+ 0.1	16 10.8	− 2.0
19	F.	.	22 12 47.98	+ 0.09	1 6.26	+ 0.01	.	101 4 8.2	− 0.7	16 12.2	− 0.4
20	T.	.	22 16 37.80	+ 0.05	1 6.06	− 0.09	.	100 42 34.1	− 0.8	16 12.4	+ 0.1
24	T.	.	22 31 50.78	+ 0.08	1 5.74	− 0.05	.	99 14 47.3	− 1.2	16 12.6	+ 1.2
Mar. 1	F.	.	22 50 38.80	+ 0.12	1 5.38	− 0.01	.	97 21 59.7	− 3.2	16 10.4	+ 0.2
3	T.	.	22 58 6.40	+ 0.10	1 5.12	− 0.13	.	96 36 9.9	+ 0.5	16 10.3	+ 0.6
5	F.	.	23 5 32.23	+ 0.08	1 5.14	+ 0.02	.	95 49 52.4	− 2.1	16 6.5	− 2.7
6	T.	.	23 9 14.44	− 0.02	1 5.00	+ 0.06	.	95 26 39.6	+ 0.2	16 9.4	+ 0.4
9	F.	.	23 20 19.04	− 0.09	1 5.06	+ 0.19	.	94 16 27.9	− 1.1	16 5.8	− 2.4
11	N.	.	23 27 40.55	+ 0.02	1 4.76	− 0.04	.	93 29 25.7	+ 0.7	16 6.1	− 1.5
12	F.	.	23 31 21.02	+ 0.25	1 4.69	− 0.06	N.	93 5 47.4	− 1.7	....	....
13	T.	.	23 35 0.75	+ 0.02	1 4.63	− 0.08	.	92 42 11.5	+ 0.3	16 6.4	− 0.7
16	F.	.	23 45 59.22	+ 0.13	1 4.58	− 0.02	.	91 31 5.8	− 3.0	16 7.4	+ 1.1
17	T.	.	23 49 38.00	− 0.08	1 4.46	− 0.12	S.	91 7 26.0	− 0.4	....	....
18	N.	.	23 53 16.95	+ 0.07	1 4.48	− 0.08	.	90 43 43.6	− 0.2	16 4.4	− 1.4
23	F.	.	0 11 28.74	+ 0.19	1 4.45	− 0.03	.	88 45 21.1	− 0.5	16 3.8	− 0.6
24	T.	.	0 15 6.58	0.00	1 4.43	− 0.04	.	88 21 46.1	− 0.7	16 3.8	− 0.3
27	T.	.	0 26 0.46	+ 0.02	1 4.40	− 0.06	.	87 11 14.8	+ 0.7	16 4.2	+ 0.9
31	T.	.	0 40 32.68	+ 0.03	1 4.47	− 0.02	.	85 38 1.0	+ 0.5	16 2.1	− 2.4
Apr. 3	T.	.	0 51 27.92	+ 0.01	1 4.48	− 0.07	.	84 28.9	....	....	....
5	N.	.	0 58 45.78	+ 0.18	1 4.50	− 0.10	.	83 43 16.4	− 0.3	16 1.0	− 0.3
12	N.	.	1 24.4	....	....	....	.	81 7 16.8	+ 0.1	15 57.6	− 1.3
13	F.	I	1 28 5.97	+ 0.03	....	....	.	80 45 29.5	− 2.5	....	....
21	Ha.	II	1 57 47.12	+ 0.22	....	....	.	77 57 30.8	− 4.8	....	....
22	N.	.	2 1 31.38	+ 0.07	1 5.34	− 0.10	.	77 37 27.2	+ 1.1	15 54.6	− 1.7
23	Ha.	.	2 5.3	....	....	....	.	77 17 27.5	− 1.4	15 56.2	+ 0.2
26	N.	.	2 16 33.50	− 0.03	1 5.64	− 0.08	.	76 18 52.0	− 2.5	15 53.7	− 1.6
27	F.	.	2 20 20.29	− 0.02	1 5.70	− 0.09	.	75 59 47.9	− 1.2	15 52.6	− 2.4
28	Ha.	.	2 24.1	....	....	....	.	75 40 55.7	− 2.1	15 53.8	− 1.0
May 4	F.	.	2 47 2.82	+ 0.02	1 6.30	− 0.04	.	73 52 54.0	− 2.5	15 50.0	− 3.4
5	Ha.	.	2 50 54.03	+ 0.03	1 6.28	− 0.14	.	73 35 50.0	+ 0.1	15 52.0	− 1.1
8	F.	.	3 2 31.06	− 0.01	1 6.72	+ 0.05	.	72 46 8.7	− 0.7	15 52.3	− 0.1
10	N.	.	3 10 18.88	+ 0.19	1 6.70	− 0.13	.	72 14 26.8	− 0.8	15 50.2	+ 0.2
15	F.	.	3 29 57.90	+ 0.09	1 7.20	− 0.04	.	71 0 29.4	− 0.2	15 50.8	− 0.2
17	N.	.	3 37 53.44	+ 0.06	1 7.29	− 0.11	.	70 33 8.7	+ 1.3	15 49.2	− 1.4
18	F.	.	3 41 52.02	+ 0.04	1 7.40	− 0.08	.	70 19.9	....	....	....
20	N.	.	3 49 50.78	+ 0.01	1 7.52	− 0.11	.	69 54 31.7	− 1.4	15 48.8	− 1.3
21	Ha.	.	3 53.8	....	....	....	.	69 42 20.1	− 2.2	15 48.9	− 1.0
24	N.	.	4 5 54.74	+ 0.12	1 7.78	− 0.16	.	69 7 56.6	− 0.6	15 48.1	− 1.3
26	Ha.	.	4 13 59.51	− 0.08	1 7.96	− 0.12	.	68 46 47.0	− 0.4	15 48.1	− 1.0
31	N.	.	4 34.3	....	....	....	.	68 0 22.7	+ 2.3	15 47.5	− 0.9
June 3	N.	.	4 46 38.22	+ 0.25	1 8.41	− 0.13	.	67 37 1.2	0.0	15 45.8	− 2.2
4	Ha.	.	4 50.7	....	....	....	.	67 30 1.4	0.0	15 47.8	0.0
1870.											
Feb. 3	E.	II	21 8 50.69	− 0.15	...	....	N.	106 25 19.2	+ 0.3	....	....
4	F.	.	21 12.9 ...	....	....	....	.	106 7 23.4	− 0.9	16 13.2	− 2.2
10	F.	.	21 36 49.06	− 0.01	1 7.12	0.09	.	104 14 23.3	+ 0.4	16 12.6	− 1.8
17	Ha.	.	22 4 8.41	− 0.17	1 6.44	− 0.03	.	101 51 55.8	− 1.2	16 11.6	− 1.4
19	F.	.	22 11 50.40	− 0.16	1 6.26	− 0.01	.	101 9 25.0	− 3.1	16 12.3	− 0.3
21	E.	.	22 19 30.08	+ 0.16	1 6.02	− 0.06	.	100 26 17.0	− 0.5	16 10.3	− 1.8
24	E.	.	22 30 54.25	− 0.07	1 5.77	− 0.04	.	99 20 20.0	− 0.2	16 9.8	− 1.6
25	F.	.	22 34 41.25	− 0.04	1 5.69	− 0.02	.	98 58 0.5	− 3.0	16 10.5	− 0.7
Mar. 3	F.	.	22 57 11.84	+ 0.05	1 5.23	− 0.03	.	96 41 46.0	− 2.9	16 8.2	− 1.5
7	Ha.	I	23 12 2.63	− 0.15	....	....	.	95 9.0	...	16 7.4	− 1.3
8	E.	.	23 15 44.07	− 0.03	1 4.88	− 0.07	.	94 45 38.3	− 0.8	16 6.7	− 1.8
9	F.	.	23 19 25.43	+ 0.11	1 4.92	+ 0.02	.	94 22 10.3	− 2.5	16 7.8	− 0.4

S U N—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
1870.			h	m	s	s	m	s	s		°	′	″	″	′	″	″
Mar. 10	Ha.	.	23	23	6.26	+ 0.08	1	4.78	− 0.07	.	93	58	41.1	− 2.2	16	7.4	− 0.6
11	E.	.	23	26	46.75	+ 0.06	1	4.77	− 0.03	.	93	35	9.6	− 1.3	16	7.0	− 0.7
16	Ha.	.	23	45	4.72	− 0.06	1	4.52	− 0.09	.	91	36	57.3	− 3.1	16	6.0	− 0.4
18	F.	.	23	52	22.38	0.00	1	4.59	+ 0.03	.	90	49	36.2	− 0.8	16	4.4	− 1.4
19	Ha.	.	23	56	1.10	+ 0.18	1	4.44	− 0.10	.	90	25	54.3	− 1.0	16	4.2	− 1.4
22	Ha.	.	0	6	55.82	− 0.03	1	4.44	− 0.04	.	89	14	53.2	− 0.5	16	3.0	− 1.7
24	F.	.	0	14	12.17	+ 0.08	1	4.54	+ 0.08	.	88	27	39.2	0.0	16	3.8	− 0.4
25	Ha.	.	0	17	50.21	+ 0.06	1	4.39	− 0.07	.	88	4	4.2	− 0.7	16	3.4	− 0.5
30	F.	.	0	36	0.80	+ 0.06	1	4.45	− 0.03	.	86	6	58.6	+ 1.2	16	2.1	− 0.4
Apr. 6	Ha.	.	1	1	31.26	− 0.07	1	4.54	− 0.09	.	83	26	9.0	+ 1.0	15	59.9	− 0.7
8	F.	.	1	8	50.20	+ 0.11	1	4.69	0.00	.	82	41	6.1	− 0.8	15	59.0	− 1.0
9	Ha.	.	1	12	29.96	+ 0.15	1	4.78	+ 0.05	.	82	18	47.7	+ 0.3	15	58.2	− 1.6
12	Ha.	.	1	23	30.49	− 0.02	1	4.73	− 0.12	.	81	12	36.7	− 0.8	15	58.0	− 1.0
13	E.	.	1	27	11.26	− 0.06	1	4.89	− 0.01	.	80	50	52.7	+ 1.3	15	59.9	+ 1.2
23	F.	.	2	4	20.12	+ 0.07	1	5.47	− 0.01	.	77	22	24.6	− 1.4	15	56.2	+ 0.1
26	F.	.	2	15	37.40	− 0.04	1	5.55	− 0.14	.	76	23	39.5	− 0.3	15	54.7	− 0.6
30	Ha.	.	2	30	47.94	+ 0.10	1	5.96	− 0.04	.	75	8	26.4	+ 0.3	15	53.0	− 1.3
May 4	E.	.	2	46	6.61	+ 0.14	1	6.30	− 0.02	.	73	57	4.7	− 2.0	15	53.9	+ 0.5
6	Ha.	.	2	53.8	....	....		....	....	.	73	23	2.2	+ 0.7	15	50.5	− 2.5
7	E.	.	2	57	41.49	− 0.15	1	6.52	− 0.04	.	73	6	24.4	+ 0.8	15	54.6	+ 1.8
9	Ha.	.	3	5	27.76	+ 0.08	1	6.60	− 0.13	.	72	33	58.4	− 0.7	15	51.6	− 0.8
12	Ha.	.	3	17	11.06	+ 0.14	1	6.92	− 0.06	.	71	47	35.1	+ 0.5	15	48.8	− 2.9
13	E.	.	3	21.1	....	....		....	....	.	71	32	42.0	− 0.7	15	52.7	+ 1.2
14	F.	.	3	25	2.64	+ 0.06	1	7.12	− 0.02	N.	71	18	11.6	+ 2.1		....	...
17	F.	.	3	36	54.34	− 0.02	1	7.36	− 0.02	.	70	36	26.1	+ 1.6	15	50.8	0.0
19	E.	.	3	44	51.82	+ 0.08	1	7.51	− 0.03	.	70	10	11.4	− 0.9	15	50.3	− 0.1
20	F.	.	3	48	51.48	+ 0.21	1	7.60	− 0.02	.	69	57	37.2	+ 0.8	15	50.6	+ 0.4
21	Ha.	.	3	52	51.51	+ 0.14	1	7.60	− 0.10	.	69	45.3	....	...		....	...
25	E.	.	4	8	57.39	+ 0.15	1	7.97	− 0.01	.	68	59	46.9	− 0.7	15	47.2	− 2.1
June 7	E.	.	5	2	7.41	+ 0.24	1	8.66	− 0.06	.	67	12	44.5	+ 1.8	15	45.7	− 2.5
8	F.	.	5	6	15.04	+ 0.05	1	8.68	− 0.08	.	67	7	13.6	+ 1.4	15	47.5	0.0
11	S.	.	5	18	40.12	+ 0.23	1	8.81	− 0.05	N.	66	53	7.6	+ 1.1		....	....
17	F.	.	5	43	34.48	+ 0.02	1	8.92	− 0.05	.	66	35.9	....	....		....	....
18	S.	.	5	47	43.99	+ 0.04	1	8.89	− 0.09	.	66	34	30.3	0.0	15	45.8	− 0.8
20	F.	.	5	56	3.04	− 0.07	1	8.98	0.00	.	66	32	53.8	+ 0.1	15	44.8	− 1.7
21	S.	.	6	0	12.77	+ 0.04	1	8.86	− 0.12	.	66	32	43.6	+ 1.0	15	45.9	− 0.5
22	E.	.	6	4	22.30	− 0.04	1	9.07	+ 0.09	.	66	32	55.4	− 0.9	15	47.9	+ 1.5
23	F.	.	6	8	31.94	+ 0.03	1	8.90	− 0.07	S.	66	33	35.5	+ 0.7		....	....
24	S.	.	6	12	41.45	+ 0.02	1	8.89	− 0.07	.	66	34	37.1	− 0.9	15	45.9	− 0.4
25	E.	.	6	16	50.87	+ 0.01	1	8.89	− 0.05	.	66	36	5.4	− 0.5	15	46.4	+ 0.1
27	S.	.	6	25	9.28	− 0.08	1	8.90	0.00	N.	66	40	17.2	+ 1.3		....	....
28	E.	.	6	29	18.26	− 0.13	1	8.80	− 0.07	.	66	42	57.6	− 0.2	15	46.1	− 0.1
29	F.	.	6	33	27.17	− 0.04	1	8.81	− 0.03	.	66	46	4.5	+ 0.3	15	46.4	+ 0.2
30	S.	.	6	37	35.86	+ 0.05	1	8.66	+ 0.05	N.	66	49	35.2	+ 0.1		....	....
July 1	F.	.	6	41	44.22	+ 0.05	1	8.72	− 0.06	.	66	53	30.3	0.0	15	46.6	+ 0.4
8	F.	.	7	10	33.96	+ 0.10	1	8.40	− 0.06	.	67	32	8.5	− 0.8	15	44.6	+ 0.3
9	S.	.	7	14	39.44	− 0.01	1	8.36	− 0.04	.	67	39	13.0	− 2.0	15	43.1	− 2.8
13	F.	.	7	30	57.48	+ 0.07	1	8.14	− 0.01	.	68	11	28.8	+ 1.7	15	45.7	− 0.8
14	E.	.	7	35	0.71	− 0.03	1	8.10	+ 0.02	.	68	20	27.9	+ 1.4	15	46.6	+ 0.1
15	S.	.	7	39	3.51	− 0.07	1	7.90	− 0.13	.	68	29	48.6	+ 0.5	15	45.2	− 1.4
16	E.	II	7	43	6.11	− 0.18		....	....	S.	68	39	31.3	− 0.4		....	....
19	E.	.	7	55	10.04	+ 0.10	1	7.68	− 0.03	.	69	10	52.1	− 0.1	15	45.5	− 1.3
20	E.	.	7	59.2	....	....		....	....	S.	69	22	1.9	+ 0.5		....	....
21	S.	.	8	3	9.98	− 0.02	1	7.52	− 0.03	.	69	33	30.1	− 1.4	15	45.0	− 2.0
22	E.	.	8	7.2	....	....		....	....	.	69	45	22.5	+ 0.4	15	47.5	+ 0.5
23	F.	.	8	11	7.85	0.00	1	7.32	− 0.07	.	69	57	33.9	+ 0.7	15	44.7	− 2.4
26	F.	.	8	23	0.35	− 0.02	1	7.11	− 0.04	.	70	36	6.6	+ 0.3	15	47.5	+ 0.1
28	E.	.	8	30	52.45	+ 0.01	1	6.92	− 0.06	.	71	3	26.7	+ 1.3	15	46.6	− 1.0
30	F.	II	8	38	42.06	+ 0.03		....	....	.	71	32.0	....	....		....	....

SUN—Continued.

Date.		Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
				h	m	s	s	m	s	s		°	'	"	"	'	"	"
1870.																		
Aug.	1	Ha.	I	8	46	29.38	+ 0.09		....	....	S.	72	1	46.9	+ 0.6		....	....
	2	E.	.	8	50	21.99	+ 0.04	1	6.46	− 0.08	.	72	17	6.8	+ 0.6	15	48.0	− 0.2
	3	F.	.	8	54	13.96	− 0.03	1	6.41	− 0.04	S.	72	32	44.2	+ 0.7	15	47.6	− 0.8
	4	S.	.	8	58	5.38	− 0.02	1	6.19	− 0.18	.	72	48	37.0	− 0.7		....	....
	5	Ha.	.	9	1	56.22	+ 0.03	1	6.18	− 0.10	.	73	4	49.8	+ 1.2	15	45.9	− 2.8
	6	E.	.	9	5	46.48	+ 0.10	1	6.14	− 0.06	.	73	21	16.4	+ 0.6	15	48.2	− 0.6
	8	S.	.	9	13	24.90	− 0.01	1	5.96	− 0.07	.	73	54	58.7	+ 0.6	15	49.1	0.0
	9	Ha.	.	9	17	13.20	− 0.08	1	5.86	− 0.08	.	74	12	14.7	+ 2.0	15	47.8	− 1.5
1871.																		
Aug.	2	S.	.	8	49	24.98	− 0.02	1	6.53	− 0.03	.	72	13.3	....	....		....	....
	7	E.	.	9	8.7	....	....		....	....	.	73	33	48.7	− 0.7	15	49.5	+ 0.6
	9	E.	I	9	16	17.32	....		...	....	N.	74	7	57.0	+ 1.4		....	....
	11	F.	.	9	23	53.06	+ 0.26	1	5.64	− 0.16	.	74	43	3.3	− 1.5	15	47.9	− 1.6
	14	E.	.	9	35	11.96	0.00	1	5.49	− 0.07	.	75	37	32.2	− 2.2	15	50.4	+ 0.4
	15	F.	.	9	38	57.38	+ 0.11	1	5.44	− 0.04	.	75	56	12.7	− 0.2	15	49.8	− 0.4
	16	S.	.	9	42	42.10	+ 0.05	1	5.34	− 0.06	N.	76	15	7.1	+ 2.2		....	....
	19	F.	I	9	53	53.35	+ 0.10		....	....	.	77	12	56.7	− 1.4	15	49.2	− 1.7
	21	F.	.	10	1	18.34	+ 0.13	1	5.00	− 0.03	.	77	52	35.7	+ 0.9	15	50.6	− 0.7
	25	F.	.	10	16	2.50	+ 0.04	1	4.76	− 0.02	N.	79	14	6.0	+ 2.7		....	....
Sept.	22	S.	.	11	57	9.99	+ 0.04	1	4.06	− 0.03	.	89	41	34.6	+ 1.3	15	56.8	− 2.2
	27	F.	I	12	15	9.51	+ 0.11		....	....	.	91	38	30.7	− 2.8	15	58.4	− 2.0
	30	F.	.	12	25	59.38	+ 0.05	1	4.20	− 0.12	N.	92	48	36.9	− 2.7		....	....
Dec.	9	S.	II	17	4	30.17	− 0.02		....	....	S.	112	50	35.5	+ 1.3		....	....
	13	E.	.	17	22	8.14	− 0.15	1	11.27	− 0.21	.	113	10	11.2	− 3.1	16	15.2	− 2.3
	21	S.	.	17	57	36.76	− 0.30	1	11.30	+ 0.04	.	113	27.3	....	....		....	....
	27	E.	II	18	24	15.88	− 0.01		....	....	.	113	20	21.2	+ 1.7	16	19.2	+ 0.8
1872.																		
Jan.	2	S.	.	18	50	49.06	− 0.08	1	11.20	+ 0.17	.	112	56.5	....	....		....	....
	5	F.	.	19	4	1.65	− 0.08	1	10.84	− 0.04	.	112	38	21.2	− 2.5	16	17.2	− 1.1
	9	F.	.	19	21	32.57	+ 0.13	1	10.58	− 0.03	.	112	7	57.5	− 1.3	16	17.7	− 1.5
	12	E.	.	19	34	34.75	− 0.10	1	10.33	− 0.04	.	111	40	37.1	+ 0.7	16	18.8	+ 0.7
	18	S.	.	20	0.4	....	....		....	....	.	110	34	37.4	− 1.0	16	15.8	− 1.9
	20	E.	.	20	8	52.16	+ 0.04	1	9.59	− 0.04	.	110	9	30.8	+ 1.6	16	15.7	− 1.8
	22	S.	.	20	17	18.94	− 0.08	1	9.41	0.00	.	109	42	46.8	− 2.9	16	16.0	− 1.3
	25	F.	.	20	29	53.45	+ 0.04	1	9.10	+ 0.02	.	109	0	6.1	− 0.7	16	16.5	− 0.5
	26	S.	.	20	34	3.31	+ 0.03	1	8.91	− 0.06	.	108	45	8.4	− 2.0	16	17.7	+ 0.8
	29	F.	.	20	46.5	....	....		....	....	.	107	58	17.1	− 3.4	16	15.4	− 1.1
	30	S.	.	20	50	34.77	+ 0.09	1	8.44	− 0.19	.	107	42	3.9	− 0.8	16	15.6	− 0.7
Feb.	1	E.	.	20	58	45.42	− 0.14	1	8.22	− 0.08	.	107	8	34.7	− 2.2	16	16.4	+ 0.4
	2	F.	.	21	2	49.95	+ 0.16	1	8.06	− 0.12	.	106	51	22.0	− 3.5	16	14.8	− 1.1
	5	E.	.	21	14	57.69	+ 0.03	1	7.80	− 0.03	.	105	58	5.0	− 1.7	16	14.7	− 0.7
	7	S.	.	21	22	58.90	+ 0.02	1	7.60	+ 0.01	.	105	21	10.4	− 0.6	16	12.8	− 2.2
	14	F.	.	21	50	38.21	+ 0.04	1	6.81	− 0.01	.	103	.4	6.1	+ 0.1	16	11.9	− 1.8
	27	S.	.	22	40	25.18	− 0.06	1	5.49	− 0.11	.	98	23	57.8	+ 0.3	16	10.0	− 0.9
Mar.	1	F.	.	22	51	39.96	− 0.16	1	5.34	− 0.03	.	97	15	49.1	− 0.9	16	10.2	0.0
	6	S.	.	23	10	15.42	− 0.15	1	4.94	− 0.04	.	95	20.3	....	....		....	....
	16	E.	.	23	46	59.26	− 0.04	1	4.59	− 0.01	.	91	24	37.7	+ 0.1	16	6.0	− 0.2
	21	E.	.	0	5	11.93	− 0.03	1	4.51	+ 0.02	.	89	26	7.6	− 1.5	16	4.6	− 0.3
	28	E.	.	0	30	37.90	− 0.10	1	4.38	− 0.09	.	86	41	25.8	+ 0.1	16	2.0	− 1.0
Apr.	2	E.	.	0	48	49.28	− 0.04	1	4.52	− 0.02	.	84	45	30.4	− 0.9	16	1.7	+ 0.2
	4	Ha.	.	0	56	6.88	+ 0.06	1	4.50	− 0.08	.	83	59	42.8	− 2.3	15	58.7	− 2.3
	5	E.	.	0	59	45.86	+ 0.01	1	4.57	− 0.04	.	83	37	0.8	− 0.2	16	0.3	− 0.4
	10	F.	.	1	18	4.51	+ 0.14	1	4.75	− 0.04	.	81	45	1.9	− 2.4	15	58.6	− 0.7
	16	F.	.	1	40	11.78	− 0.13	1	5.04	− 0.05	.	79	35.4	....	....		....	....
	17	E.	.	1	43	54.24	− 0.11	1	5.12	− 0.02	.	79	14	19.9	+ 0.1	15	56.9	− 0.6
	22	F.	.	2	2	32.62	− 0.05	1	5.56	+ 0.10	.	77	31	53.7	− 0.5	15	57.8	+ 1.6
	25	E.	.	2	13	48.81	− 0.07	1	5.56	− 0.11	.	76	32	51.9	+ 0.6	15	54.5	− 0.9
	30	F.	.	2	32	46.34	+ 0.06	1	6.02	− 0.02	.	74	58	54.1	− 0.6	15	53.9	− 0.3
May	2	S.	.	2	40	25.10	+ 0.04	1	6.15	− 0.04	.	74	23	1.7	+ 0.9	15	52.8	− 0.9

SUN—Continued.

Date.		Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
1872.				h	m	s	s	m	s	s		°	′	″	″	′	″	″
May	3	E.	.	2	44	15.33	+ 0.03	1	6.23	− 0.04	.	74	5	24.9	− 1.9	15	53.6	+ 0.1
	4	F.	.	2	48	6.03	− 0.08	1	6.37	+ 0.02	.	73	48	7.9	− 0.5	15	52.8	− 0.5
	7	E.	.	2	59	41.85	− 0.14	1	6.56	− 0.03	.	72	57	49.7	− 0.8	15	52.7	+ 0.1
	8	F.	.	3	3	35.18	+ 0.08	1	6.62	− 0.06	.	72	41	37.5	− 0.6	15	52.7	+ 0.3
	11	E.	.	3	15	17.87	+ 0.04	1	6.86	− 0.06	.	71	54	46.6	+ 0.5	15	51.6	− 0.2
	14	S.	.	3	27	5.68	+ 0.04	1	7.16	− 0.01	.	71	10	38.7	+ 0.7	15	50.4	− 0.8
	20	F.	.	3	50	56.33	+ 0.20	1	7.62	− 0.04	.	69	51	4.1	− 1.7	15	48.7	− 1.4
	23	S.	.	4	2	58.64	+ 0.03	1	7.85	− 0.03	.	69	15	53.2	− 1.4	15	48.6	− 0.3
	27	E.	.	4	19	9.05	− 0.09	1	8.12	− 0.04	.	68	34.0	....	....		....	....
	31	E.	.	4	35	37.38	+ 0.03	1	8.38	− 0.02	.	67	57	55.3	− 2.5	15	47.2	− 1.1
June	1	F.	.	4	39	33.12	+ 0.10	1	8.38	− 0.07	.	67	49	54.8	+ 0.5	15	47.5	− 0.7
	11	S.	.	5	20	48.50	+ 0.05	1	8.78	− 0.09	.	66	50	56.5	− 0.8	15	46.9	− 0.2
	12	E.	.	5	24	57.30	− 0.06	1	8.83	− 0.06	.	66	47	15.7	− 0.9	15	48.0	+ 1.0
	13	F.	.	5	29	6.44	+ 0.03	1	8.89	− 0.02	.	66	43	59.2	− 1.2	15	46.2	− 0.7
	21	F.	.	6	[illegible]	21.74	+ 0.05	1	8.94	− 0.03	.	66	32	41.3	+ 0.4	15	45.3	− 1.1
	27	S.	II	6	27	17.14	+ 0.02		....	....	.	66	41	32.2	+ 1.2	15	45.1	− 1.1
	28	E.	.	6	31	25.85	− 0.07	1	8.76	− 0.11	.	66	44	25.6	+ 0.1	15	45.3	− 0.9
July	1	S.	.	6	43	51.22	+ 0.08	1	8.60	− 0.16	.	66	55.6	....	....		....	....
	2	E.	.	6	47	58.91	− 0.16	1	8.67	− 0.05	.	67	0	7.5	+ 0.5	15	45.9	− 0.2
	3	S.	.	6	52	6.75	+ 0.02	1	8.70	− 0.03	.	67	5	3.4	+ 0.4	15	45.6	− 0.5
	5	S.	.	7	0	21.18	+ 0.05	1	8.55	− 0.03	.	67	16	8.4	+ 1.7	15	45.7	− 0.4
	6	E.	.	7	4	27.58	− 0.22	1	8.50	− 0.03	.	67	22	15.0	+ 0.8	15	47.0	+ 0.8
	9	S.	.	7	16	45.68	+ 0.16	1	8.28	− 0.09	.	67	42	57 6	0.0	15	45.5	− 0.7
	18	E.	.	7	53	13.34	− 0.04	1	7.80	− 0.04	.	69	5	32.3	+ 2.0	15	46.7	− 0.1
	19	F.	.	7	57	13.98	+ 0.14	1	7.63	− 0.05	.	69	16	30.5	+ 1.2	15	46.3	− 0.5
	22	E.	.	8	9	11.86	− 0.04	1	7.36	− 0.08	.	69	51	31.0	+ 0.1	15	47.8	+ 0.7
	27	F.	.	8	28	57.37	+ 0.14	1	7.03	+ 0.01	.	70	56	34.7	+ 0.9	15	47.5	− 0.1
	30	E.	.	8	40	41.36	− 0.12	1	6.68	− 0.08	.	71	39	25.7	+ 1.0	15	48.5	+ 0.6
Aug.	3	E.	.	8	56	12.13	− 0.06	1	6.38	− 0.03	.	72	40	43.5	− 1.1	15	48.7	+ 0.3
	7	E.	.	9	11	33.32	− 0.01	1	6.10	+ 0.04	.	73	46	34.4	− 0.6		....	....
	14	E.	.	9	38	2.32	− 0.16	1	5.38	− 0.11	.	75	51	38.7	0.0	15	48.8	− 1.4
	19	E.	.	9	56	40.98	− 0.06	1	5.06	− 0.06	.	77	27	45.6	− 2.0	15	50.3	− 1.1
	30	S.	II	10	37	2.84	− 0.08		....	....	.	81	15.9	....	....		....	....
Sept.	20	S.	.	11	52	40.99	− 0.05	1	4.00	− 0.08	.	89	12	24.4	+ 0.5	15	58.7	0.0
Oct.	1	S.	.	12	32	20.98	− 0.01	1	4.42	− 0.03	.	93	29	36.1	+ 0.6	16	1.4	− 0.3
	[illegible]	E.	.	12	35	58.84	0.00	1	4.40	− 0.04	.	93	52	53.5	+ 1.6	16	2.3	+ 0.3
	3	F.	.	12	39	37.00	− 0.01	1	4.48	− 0.01	.	94	16.1	....	....		....	....
	9	S.	.	13	1	33.72	− 0.09	1	4.81	− 0.05	.	96	34.2	....	....		....	....
	10	E.	.	13	5	14.72	− 0.02	1	4.87	− 0.06	.	96	56	54.5	− 0.3	16	2.8	− 1.4
	29	S.	.	14	17	4.02	+ 0.10	1	6.70	0.00	.	103	43	47.3	+ 2.6	16	9.6	+ 0.3
Nov.	4	F.	.	14	40	39.32	0.00	1	7.33	− 0.06	.	105	38	6.9	+ 0.1	16	10.4	− 0.4
	7	E.	.	14	52	38.00	0.00	1	7.68	− 0.07	.	106	31	52.0	− 1.1	16	11.9	+ 0.4
	8	F.	.	14	56	39.28	+ 0.08	1	7.86	− 0.01	.	106	49	16.9	+ 1.6	16	9.9	− 1.8
	15	E.	.	15	25	10.94	− 0.12	1	8.66	− 0.05	.	108	42	26.2	− 0.2	16	12.3	− 1.0
	19	E.	.	15	41	47.62	− 0.14	1	9.08	− 0.08	.	109	39	57.7	+ 0.4	16	15.0	+ 0.9
	23	E.	.	15	58	37.60	− 0.08	1	9.56	− 0.04	.	110	31	46.3	− 0.3	16	14.8	0.0
	27	E.	.	16	15	40.11	− 0.15	1	9.96	− 0.04	.	111	17	32.3	+ 0.5	16	15.8	+ 0.3
Dec.	2	F.	.	16	37	14.32	− 0.15	1	10.44	− 0.01	.	112	5	38.6	+ 0.5	16	15.7	− 0.5
	4	S.	.	16	45	56.48	− 0.03	1	10.56	− 0.04	.	112	21	51.6	− 3.4	16	14.6	− 1.9
	6	F.	.	16	54	40.82	+ 0.12	1	10.66	− 0.09	.	112	36	26.5	− 0.5	16	15.1	− 1.7
	10	F.	.	17	12	14.42	− 0.23	1	11.00	− 0.01	.	113	0	11.4	+ 1.2	16	16.5	− 0.8
	13	E.	.	17	25	28.98	− 0.09	1	11.10	− 0.03	.	113	13	9.7	− 1.0	16	18.4	+ 0.8
	14	E.	.	17	29	54.41	− 0.08	1	11.11	− 0.06	.	113	16	33.2	− 2.2	16	16.6	− 1.1
1873.																		
Jan.	22	E.	.	20	20	29.30	− 0.06	1	9.36	+ 0.03	.	109	32	27.2	+ 1.4	16	16.5	− 0.7
	30	E.	.	20	53	41.27	− 0.17	1	8.36	− 0.07	.	107	29	25.5	+ 1.1	16	17.5	+ 1.3
Feb.	10	S.	.	21	37.9	....	....		....	....	.	104	9	2.0	− 1.7	16	14.4	0.0
Mar.	6	S.	.	23	9	22.27	+ 0.07	1	5.02	− 0.04	S.	95	25	50.4	− 3.0		....	....
	7	E.	.	23	13	3.90	− 0.16	1	4.94	− 0.06	.	95	2	32.5	− 1.0	16	10.4	+ 1.7

S U N—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
1873.			h	m	s	s	m	s	s		°	′	″	″	′	″	″
Mar. 10	S.	II	23	24	7.29	− 0.03		....	....	.	93	52	12.8	+ 0.1	16	6.6	− 1.3
12	F.	.	23	31	27.93	+ 0.15	1	4.77	+ 0.02	.	93	5	2.3	− 2.3	16	7.0	− 0.4
14	S.	.	23	38	47.04	− 0.05	1	4.64	− 0.03	.	92	17	47.9	− 0.7	16	6.4	− 0.5
19	E.	.	23	57	1.57	+ 0.03	1	4.50	− 0.04	.	90	19	21.0	− 0.7	16	4.6	− 0.9
28	F.	.	0	29	45.26	− 0.04	1	4.42	− 0.04	.	86	47	4.7	− 0.4	16	0.4	+ 1.0
Apr. 4	E.	.	0	55	14.21	− 0.02	1	4.50	− 0.07	.	84	5	11.7	− 0.2	16	1.6	+ 0.6
9	F.	.	1	13	30.72	0.00	1	4.74	0.00	.	82	12	34.2	− 0.2	15	58.5	− 1.2
May 5	E.	.	2	51	1.78	+ 0.13	1	6.36	− 0.06	.	73	35	8.2	0.0	15	53.5	+ 0.4
17	E.	.	3	37	59.60	+ 0.04	1	7.34	− 0.07	.	70	32	38.8	− 0.1	15	50.2	− 0.4
27	Hn.	.	4	18	10.16	− 0.01	1	8.06	− 0.07	.	68	36	18.7	+ 0.1	15	49.1	+ 0.2
31	F.	I	4	34	28.43	+ 0.16		....	....	N.	67	59	53.1	− 1.3		....	....
June 2	E.	.	4	42	39.88	+ 0.11	1	8.44	− 0.06	.	67	44	0.8	+ 1.3	15	48.4	+ 0.3
3	Hn.	I	4	46	46.23	+ 0.17		....	....	.	67	36	35.5	− 1.6	15	47.7	− 0.3
4	F.	.	4	50	52.78	+ 0.09	1	8.58	− 0.02	.	67	29	36.7	− 1.5	15	46.7	− 1.1
6	E.	.	4	59	6.90	+ 0.01	1	8.66	− 0.02	.	67	16	51.0	− 0.3	15	47.8	+ 0.2
7	Hn.	.	5	3	14.59	+ 0.13	1	8.73	+ 0.01	.	67	11	3.9	+ 0.2	15	46.9	− 0.6
12	F.	.	5	23	56.06	+ 0.09	1	8.84	− 0.05	.	66	48	9.0	+ 1.3	15	45.8	− 1.2
16	F.	.	5	40	32.46	− 0.15	1	8.96	0.00	.	66	37	6.1	− 0.4	15	45.8	− 0.9
17	S.	.	5	44	42.02	− 0.06	1	8.96	− 0.01	.	66	35	23.4	+ 0.6	15	45.1	− 1.5
18	E.	.	5	48	51.68	+ 0.04	1	8.90	− 0.07	.	66	34	4.5	+ 0.6	15	45.7	− 0.9
19	Hn.	.	5	53	1.29	+ 0.04	1	8.94	− 0.03	.	66	33	11.2	+ 1.4	15	45.6	− 0.9
July 7	E.	II	7	7	34.34	+ 0.15		....	....	.	67	27	7.3	+ 0.6	15	47.0	+ 0.8
12	E.	.	7	27	59.20	− 0.05	1	8.13	− 0.08	S.	68	5	0.0	− 0.6		....	....
14	F.	.	7	36	6.10	− 0.07	1	8.09	+ 0.02	.	68	22	47.5	1.4	15	45.4	− 1.1
16	E.	.	7	44	11.20	+ 0.01	1	7.88	− 0.06	.	68	42	8.0	+ 2.1	15	47.3	+ 0.7
18	F.	.	7	52	14.33	+ 0.10	1	7.74	− 0.03	.	69	0	49.0	− 0.7	15	44.7	− 2.0
24	E.	.	8	16	10.41	− 0.04	1	7.23	− 0.06	.	70	13	26.1	+ 1.6	15	46.6	− 0.6
26	F.	.	8	24	4.53	− 0.04	1	7.07	− 0.05	.	70	39	38.5	+ 1.3	15	46.2	− 1.2
30	F.	.	8	39	45.54	+ 0.03	1	6.76	− 0.02	.	71	35	50.9	− 0.6	15	49.2	+ 1.3
Aug. 2	Hn.	.	8	51.4	....	....		....	....	.	72	21	13.3	+ 0.7	15	48.0	− 0.3
5	E.	.	9	2	58.25	− 0.04	1	6.28	+ 0.03	.	73	9	7.7	− 0.8	15	49.6	+ 0.9
6	Hn.	.	9	6	48.37	+ 0.09	1	6.15	− 0.02	.	73	25	38.8	− 1.2	15	48.7	− 0.2
7	F.	.	9	10	37.72	+ 0.06	1	6.08	0.00	.	73	42	25.2	− 2.3	15	47.3	− 1.7
9	E.	.	9	18	14.56	− 0.10	1	5.86	− 0.05	.	74	16	50.1	− 0.1	15	50.7	+ 1.4
11	F.	.	9	25.8	....	....		....	....	.	74	52	10.6	− 0.7	15	50.4	+ 0.7
23	F.	.	10	10	34.36	− 0.05	1	4.84	− 0.03	.	78	43	23.8	+ 1.6	15	51.0	− 0.9
Sept. 2	Hn.	.	10	47	4.17	− 0.02	1	4.31	− 0.05	.	82	16	7.2	− 0.2	15	54.7	+ 0.6
12	F.	.	11	23.1	....	....		....	....	.	86	1	14.8	− 0.7	15	55.2	− 1.8
13	S.	.	11	26	41.76	+ 0.09	1	4.02	− 0.07	.	86	24	17.5	+ 2.1	15	57.0	+ 0.2
16	F.	.	11	37	27.82	− 0.03	1	4.05	− 0.01	.	87	33.6	....	....		....	....
17	S.	.	11	41	3.09	− 0.15	1	4.10	+ 0.04	.	87	56	52.5	+ 1.9	15	57.0	− 0.8
20	F.	.	11	51	49.72	+ 0.09	1	4.12	+ 0.04	.	89	6	46.9	− 1.6	15	56.7	− 2.0
22	E.	.	11	59	0.81	− 0.11	1	4.03	− 0.08	.	89	53	34.3	− 0.7	15	58.2	− 1.0
26	S.	.	12	13.4	....	....		....	....	.	91	27	16.4	+ 0.6	16	0.8	+ 0.5
Oct. 1	Hn.	.	12	31	29.50	+ 0.09	1	4.36	− 0.04	.	93	24	5.7	0.0	15	59.3	− 2.4
7	S.	.	12	53	20.32	− 0.12	1	4.80	+ 0.09	.	95	42	57.4	+ 1.7	16	3.0	− 0.4
8	E.	.	12	57	0.32	+ 0.02	1	4.74	− 0.03	.	96	5	51.0	+ 0.3	16	3.1	− 0.6
9	Hn.	.	13	0	40.50	− 0.10	1	4.94	+ 0.10	.	96	28	42.3	+ 1.6	16	4.9	+ 1.0
16	E.	.	13	26.6	....	....		....	....	.	99	5	50.7	+ 1.4	16	4.9	− 0.9
22	F.	.	13	49	14.35	− 0.04	1	5.90	− 0.03	.	101	15	34.6	− 0.5	16	6.0	− 1.4
25	Hn.	.	14	0.7	....	....		....	....	.	102	18	15.6	− 0.5	16	8.4	+ 0.2
29	E.	.	14	16	9.07	0.00	1	6.60	− 0.07	.	103	39	7.3	− 0.7	16	9.6	+ 0.3
30	F.	.	14	20	2.80	+ 0.12	1	6.80	+ 0.02	.	103	58	50.9	+ 1.6	16	8.8	− 0.7
31	S.	.	14	23	57.16	+ 0.10	1	6.89	− 0.01	.	104	18.3	....	....		....	....
Nov. 1	E.	.	14	27	52.22	0.00	1	6.96	− 0.05	.	104	37	31.6	+ 0.7	16	8.5	− 1.5
3	F.	.	14	35	45.00	+ 0.08	1	7.24	− 0.01	.	105	15	15.3	− 0.1	16	9.6	− 0.9
4	S.	.	14	39	42.55	+ 0.06	1	7.34	− 0.03	.	105	33	45.7	+ 0.5	16	8.4	− 2.4
5	E.	.	14	43	40.97	+ 0.07	1	7.43	− 0.06	.	105	51	59.2	− 0.5	16	11.1	+ 0.1
10	Hn.	.	15	3	45.62	0.00	1	8.13	+ 0.04	.	107	19	6.8	− 0.6	16	11.3	− 0.9

S U N—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
			h	m	s	s	m	s	s		°	′	″	″	′	″	″
1873.																	
Nov. 11	F.	.	15	7	49.00	− 0.16	1	8.36	+ 0.15	.	107	35	42.1	+ 0.9	16	11.1	− 1.3
13	E.	.	15	15	58.86	+ 0.02	1	8.42	− 0.02	S.	108	7	56.9	+ 2.8		....	....
14	Hn.	.	15	20	5.04	+ 0.06	1	8.44	− 0.12	.	108	23	32.9	+ 0.6	16	12.2	− 0.8
20	Sk.	.	15	44	59.70	− 0.06	1	9.14	− 0.10	N.	109	50	20.5	− 0.7		...	....
29	Sk.	.	16	23	15.20	+ 0.11	1	10.15	− 0.02	.	111	35.7	....	....		....	....
Dec. 10	Sk.	.	17	11	10.96	− 0.02	1	10.84	− 0.14	.	112	58	59.3	+ 1.9	16	17.2	0.0
15	E.	.	17	33	16.64	+ 0.01	1	11.15	− 0.04	.	113	18	55.3	+ 0.8	16	18.0	+ 0.3
17	S.	.	17	42	8.88	0.00	1	11.22	− 0.02	.	113	23	39.0	+ 0.7	16	17.5	− 0.3
18	Sk.	.	17	46	35.47	+ 0.18	1	11.13	− 0.13	.	113	25	20.4	+ 2.4	16	16.6	− 1.3
19	E.	.	17	51	1.96	+ 0.12	1	11.37	+ 0.10	.	113	26	28.9	− 0.4	16	17.9	− 0.1
22	Sk.	.	18	4.4	....	....		....	....	.	113	27	16.0	+ 2.7	16	18.0	− 0.1
31	E.	.	18	44	17.33	+ 0.11	1	11.02	− 0.09	.	113	4	1.6	+ 1.5	16	16.2	− 2.2
1874.																	
Jan. 10	S.	.	19	28	8.55	+ 0.17	1	10.43	− 0.07	.	111	54	42.7	+ 1.2	16	17.8	− 0.4
12	E.	.	19	36	48.62	+ 0.01	1	10.25	− 0.08	.	111	35	34.2	− 0.9	16	17.6	− 0.4
15	Sk.	.	19	49	44.63	+ 0.30	1	10.03	− 0.04	.	111	3	48.2	+ 0.8	16	17.1	− 0.7
17	Sk.	.	19	58	18.40	+ 0.28	1	9.78	− 0.09	.	110	40	33.6	− 0.7	16	16.9	− 0.8
20	E.	.	20	11	3.20	− 0.16	1	9.52	− 0.05	.	110	2	50.8	+ 2.0	16	17.0	− 0.4
26	S.	.	20	36	12.62	0.00	1	8.78	− 0.04	.	108	37	22.4	+ 1.2	16	15.1	− 1.7
29	F.	.	20	48	36.34	+ 0.21	1	8.56	− 0.02	.	107	49	58.6	− 1.4	16	15.6	− 0.8
Feb. 4	Sk.	.	21	13	0.89	+ 0.13	1	7.78	− 0.11	.	106	6	56.6	+ 1.1	16	15.8	+ 0.3
10	E.	.	21	36	56.36	− 0.08	1	7.18	− 0.03	.	104	13	52.4	+ 0.2	16	14.5	+ 0.1
12	F.	.	21	44	48.82	− 0.03	1	7.04	+ 0.05	.	103	34	14.3	+ 1.4	16	13.9	− 0.1
16	Sk.	.	22	0	24.90	+ 0.13	1	6.44	− 0.02	.	102	12	16.2	− 0.6	16	11.2	− 2.0
17	E.	.	22	4	16.95	+ 0.01	1	6.35	− 0.11	.	101	51	16.8	− 0.7	16	11.1	− 1.9
26	F.	.	22	38.6	....	....		....	....	.	98	34	51.4	+ 0.5	16	10.3	− 0.7
Mar. 2	F.	I	22	53	35.82	0.00		....	....	.	97	3	59.0	− 2.3	16	8.4	− 1.6
4	Sk.	.	23	1	2.84	+ 0.20	1	5.10	− 0.09	.	96	17	59.9	− 1.2	16	8.3	− 1.3
11	S.	.	23	26	53.70	− 0.01	1	4.84	+ 0.04	.	93	34	28.7	+ 1.0	16	7.9	+ 0.2
14	Sk.	.	23	37	53.60	− 0.05	1	4.64	− 0.04	.	92	23	33.8	− 1.8	16	6.4	− 0.5
28	Sk.	.	0	28	52.70	+ 0.11	1	4.34	− 0.12	.	86	52	42.4	− 0.3	16	2.6	− 0.5
30	F.	.	0	36	8.71	+ 0.03	1	4.44	− 0.04	.	86	6	2.6	− 0.9	16	1.6	− 0.9
Apr. 11	F.	.	1	19	57.14	+ 0.05	1	4.88	+ 0.07	N.	81	33	47.4	+ 0.3		....	....
13	Sk.	.	1	27	18.68	+ 0.02	1	4.82	− 0.08	.	80	50	5.7	+ 0.7	15	57.8	− 0.8
21	Sk.	.	1	56	59.50	+ 0.15	1	5.28	− 0.07	.	78	1	48.1	+ 1.4	15	56.9	+ 0.3
30	E.	.	2	30	55.67	+ 0.05	1	5.98	− 0.02	.	75	7	41.8	+ 0.3	15	54.8	+ 0.4
May 7	Sk.	.	2	57	48.68	+ 0.05	1	6.46	− 0.10	.	73	5	48.2	+ 0.5	15	51.6	+ 1.1
11	Sk.	.	3	13	23.17	+ 0.03	1	6.87	− 0.02	.	72	2	10.6	+ 0.4	15	52.4	+ 0.5
19	Sk.	.	3	45	0.29	+ 0.10	1	7.47	− 0.07	.	70	9	35.5	− 0.9	15	50.1	− 0.2
26	S.	.	4	13	8.37	− 0.12	1	8.04	− 0.01	.	68	48	47.3	+ 2.5	15	48.6	− 0.6
27	Sk.	.	4	17	11.76	+ 0.13	1	8.04	− 0.08	.	68	38	40.1	0.0	15	48.5	− 0.5
28	E.	,	4	21	15.22	0.00	1	8.14	− 0.05	.	68	28	54.4	− 1.0	15	48.3	− 0.6
June 1	E.	.	4	37	33.97	− 0.05	1	8.41	+ 0.04	.	67	53	41.3	− 0.4	15	48.0	− 0.4
2	F.	II	4	41	39.81	+ 0.04		....	....	N.	67	45	51.3	+ 0.9		....	....
9	E.	.	5	10	30.11	− 0.01	1	8.72	− 0.07	.	67	1	50.8	+ 0.4	15	47.3	0.0
10	F.	.	5	14	38.40	− 0.13	1	8.78	− 0.05	.	66	57	7.8	0.0	15	46.0	− 1.2
13	E.	.	5	27	5.08	− 0.05	1	8.92	+ 0.02	.	66	45	30.1	+ 0.8	15	46.8	− 0.1
15	S.	.	5	35	23.75	+ 0.03	1	8.89	− 0.05	.	66	39	48.2	+ 1.7	15	46.1	− 0.7
18	F.	II	5	47	52.43	+ 0.10		....	....	.	66	34	17.5	− 0.4	15	45.7	− 0.9
19	S.	I	5	52	2.01	+ 0.05		....	....	.	66	33.3	....	....		....	....
22	F.	.	6	4	30.96	+ 0.16	1	8.96	− 0.02	.	66	32	47.8	+ 0.5	15	46.5	+ 0.1
23	E.	.	6	8	40.18	− 0.12	1	8.92	− 0.05	.	66	33	26.9	+ 0.1	15	48.0	+ 1.7
25	E.	.	6	16	58.97	− 0.01	1	8.90	− 0.04	.	66	36	0.0	0.0	15	46.0	− 0.3
29	E.	.	6	33	34.52	− 0.02	1	8.78	− 0.06	.	66	46	2.2	+ 0.6	15	45.5	+ 0.3
July 7	E.	.	7	6	34.32	− 0.01	1	8.44	− 0.07	.	67	25	29.1	0.0	15	46.4	+ 0.2
9	S.	.	7	14	46.05	− 0.01	1	8.36	− 0.04	.	67	39	19.0	+ 0.7	15	45.4	− 0.8
10	Sk.	.	7	18	51.38	+ 0.04	1	8.30	− 0.04	.	67	46	49.1	+ 1.3	15	44.9	− 0.4
15	E.	.	7	39.2	....	....		....	....	.	68	29	55.0	− 1.6	15	45.0	− 1.5
17	S.	.	7	47	15.40	− 0.15	1	7.90	+ 0.03	.	68	49.8	....	....		....	....

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
1874.			h	m	s	s	m	s	s		°	′	″	″	′	″	″
July 23	E.	.	8	11	15.50	− 0.07	1	7.31	− 0.08	.	69	57	48.3	− 0.9	15	46.2	− 0.9
30	E.	.	8	38	48.40	− 0.14	1	6.68	− 0.12	.	71	32	17.0	− 0.3	15	46.9	− 1.0
Aug. 6	S.	II	9	5	52.21	− 0.14		....	....	S.	73	21	33.6	− 1.4		....	....
15	Sk.	II	9	39	58.74	+ 0.02		....	....	.	76	1	16.8	− 0.4	15	49.0	− 0.4
19	Sk.	.	9	54	54.06	+ 0.07	1	5.19	+ 0.04	.	77	18	19.1	+ 2.5	15	51.5	+ 0.5
Sept. 18	F.	.	11	43	47.04	− 0.07	1	4.02	− 0.04	.	88	14	35.1	− 0.1	15	58.6	+ 0.5
21	E.	.	11	54	33.41	+ 0.08	1	4.07	− 0.01	.	89	24	34.6	0.0	16	0.6	+ 1.7
22	F.	.	11	58	8.92	+ 0.05	1	4.08	− 0.01	.	89	47	55.6	− 1.7	15	57.5	− 1.7
23	S.	.	12	1	44.46	− 0.04	1	4.09	− 0.02	.	90	11	21.7	+ 1.0	15	59.4	0.0
24	Sk.	.	12	5	20.32	+ 0.07	1	4.10	− 0.04	.	90	34	44.9	+ 0.3	15	59.8	+ 0.1
25	E.	.	12	8	56.15	0.00	1	4.14	− 0.03	.	90	58	7.6	− 1.3	15	59.5	− 0.5
26	F.	.	12	12	32.32	+ 0.10	1	4.14	− 0.06	.	91	21	30.5	− 2.6	15	59.4	− 0.9
Oct. 1	S.	.	12	30	35.96	− 0.08	1	4.38	0.00	.	93	18.4	....	....		....	....
2	Sk.	.	12	34	13.70	+ 0.06	1	4.35	− 0.07	.	93	41	40.0	+ 1.3	16	0.4	− 1.5
3	E.	.	12	37	51.56	− 0.03	1	4.40	− 0.07	.	94	4	52.9	− 0.5	16	0.6	− 1.6
5	S.	.	12	45	8.55	− 0.01	1	4.58	+ 0.01	.	94	51	11.4	− 2.6	16	3.7	+ 1.0
9	S.	.	12	59	47.21	− 0.09	1	4.76	− 0.06	.	96	23	10.9	+ 0.5	16	3.3	− 0.5
15	E.	.	13	21	59.44	− 0.10	1	5.25	− 0.03	.	98	38	24.9	− 0.8	16	6.2	+ 0.7
19	E.	.	13	36	58.64	+ 0.11	1	5.58	− 0.05	.	100	6	11.4	− 0.9	16	5.5	− 1.1
20	F.	.	13	40	45.01	+ 0.23	1	5.65	− 0.07	.	100	27	46.2	− 1.1	16	6.5	− 1.4
23	E.	.	13	52	7.39	− 0.06	1	5.96	− 0.05	.	101	31.6	....	....	16	6.4	− 1.3
26	Sk.	.	14	3	36.50	+ 0.21	1	6.25	− 0.08	.	102	33	46.7	− 0.7	16	7.4	− 1.1
29	S.	.	14	15	11.72	− 0.12	1	6.63	− 0.02	.	103	34	15.4	− 0.2	16	7.7	− 1.5
Nov. 4	E.	.	14	38	44.24	− 0.17	1	7.24	− 0.09	.	105	29	13.4	− 2.7	16	9.6	− 1.1
6	S.	II	14	46	41.92	− 0.02		....	....	S.	106	5	41.2	+ 2.3		....	....
7	Sk.	.	14	50	42.19	+ 0.21	1	7.60	− 0.09	.	106	23	26.6	+ 0.1	16	11.5	+ 0.1
11	Sk.	.	15	6.8	....	....		....	....	.	107	31	46.5	− 0.1	16	11.3	− 1.0
12	E.	.	15	10	54.82	− 0.09	1	8.23	− 0.06	.	107	48	6.1	− 1.0	16	13.6	+ 1.1
14	S.	.	15	19	5.79	− 0.20	1	8.64	+ 0.11	.	108	19	49.8	− 1.9	16	12.8	+ 0.1
24	E.	.	16	0	50.26	− 0.08	1	9.58	− 0.08	.	110	38	9.1	+ 0.3	16	13.4	− 1.5
25	F.	.	16	5	5.30	+ 0.18	1	9.76	0.00	.	110	49	55.6	− 2.1	16	13.8	− 1.3
27	Sk.	.	16	13	36.94	0.00	1	9.80	− 0.16	.	111	12	26.0	+ 1.0	16	14.8	− 0.6
30	S.	.	16	26	30.27	+ 0.20	1	10.29	+ 0.04	.	111	43	6.5	+ 0.5	16	16.7	+ 0.8
Dec. 4	S.	.	16	43	50.26	− 0.06	1	10.56	− 0.02	.	112	18	9.8	− 1.5	16	14.8	− 1.6
5	Sk.	.	16	48	11.85	− 0.05	1	10.51	− 0.14	.	112	25	53.0	− 0.3	16	15.5	− 1.1
7	F.	.	16	56	56.70	− 0.03	1	10.72	− 0.07	.	112	39	56.2	− 2.2	16	16.9	+ 0.1
8	S.	.	17	1	19.87	− 0.03	1	10.88	+ 0.03	.	112	46	23.1	− 2.4	16	16.1	− 0.8
11	F.	.	17	14	32.12	+ 0.10	1	10.98	− 0.04	.	113	2	45.8	− 0.4	16	16.7	− 0.6
15	F.	.	17	32	13.19	+ 0.17	1	11.32	+ 0.13	.	113	18	16.0	+ 1.5	16	16.9	− 0.8
18	E.	.	17	45	31.16	− 0.07	1	11.24	− 0.02	.	113	24	58.6	+ 1.4	16	16.6	− 1.3
21	Sk.	.	17	58	50.59	+ 0.05	1	11.24	− 0.06	.	113	27	26.8	+ 0.6	16	17.5	− 0.6
23	F.	.	18	7	43.88	+ 0.25	1	11.36	+ 0.05	.	113	26	45.8	+ 1.7	16	17.8	− 0.4
1875.																	
Jan. 11	E.	.	19	31	26.89	+ 0.17	1	10.34	− 0.10	.	111	47	38.1	− 0.4	16	18.0	− 0.1
14	Sk.	.	19	44	24.74	0.00	1	10.10	− 0.09	.	111	17	22.0	− 0.6	16	17.5	− 0.5
15	E.	.	19	48	42.70	− 0.04	1	10.05	− 0.05	.	111	6	27.7	− 0.3	16	18.8	+ 0.9
20	F.	.	20	10	2.03	+ 0.12	1	9.66	+ 0.06	.	110	6	0.6	+ 1.6	16	16.3	− 1.2
Feb. 1	F.	.	20	59	52.96	− 0.01	1	8.23	− 0.03	.	107	3	59.3	0.0	16	14.8	− 1.2
5	F.	II	21	16	4.34	+ 0.04		....	....	S.	105	53	11.2	+ 2.5		....	....
8	E.	.	21	28	4.27	0.00	1	7.36	− 0.10	.	104	57	6.3	− 1.3	16	15.3	+ 0.5
13	F.	.	21	47	48.19	+ 0.04	1	6.92	+ 0.02	.	103	18	48.7	− 2.3	16	12.8	− 1.1
15	Sk.	.	21	55	36.41	+ 0.16	1	6.63	− 0.06	.	102	37	58.3	− 1.0	16	13.7	+ 0.2
18	S.	.	22	7	12.83	− 0.03	1	6.38	− 0.01	.	101	35.2	....	....		....	....
22	S.	.	22	22	32.26	+ 0.20	1	6.00	0.00	.	100	9	0.0	− 0.5	16	11.2	− 0.8
26	S.	.	22	37	41.50	+ 0.18	1	5.61	− 0.04	.	98	40	19.1	− 0.3	16	10.9	− 0.2
Mar. 8	E.	.	23	14	58.62	− 0.10	1	4.94	− 0.03	.	94	50	30.1	+ 1.4	16	9.3	+ 0.7
10	F.	.	23	22	21.19	+ 0.08	1	4.86	− 0.01	.	94	3	31.8	− 0.9	16	8.2	+ 0.2
11	Sk.	.	23	26	1.88	− 0.09	1	4.68	− 0.14	.	93	39	59.7	− 0.3	16	6.7	1.1
12	E.	.	23	29	42.23	+ 0.09	1	4.73	− 0.04	.	93	16	26.1	+ 1.2	16	7.6	+ 0.1

SUN—Continued.

Date.		Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
1875.				h	m	s	s	m	s	s		°	'	"	"	'	"	"
Mar.	16	E.	.	23	44	20.73	+ 0.11	1	4.63	+ 0.01	.	91	41	47.5	+ 0.1	16	7.0	+ 0.5
	17	F.	.	23	47	59.70	+ 0.09	1	4.61	+ 0.02	.	91	18	6.4	+ 0.9	16	6.4	+ 0.2
	23	Sk.	.	0	9	50.14	+ 0.04	1	4.41	− 0.07	.	88	56	1.6	+ 1.0	16	5.2	+ 0.6
	25	F.	.	0	17	6.06	− 0.10	1	4.48	+ 0.01	.	88	8	8.3	− 1.1	16	3.3	− 0.7
	27	Sk.	.	0	24	22.20	+ 0.05	1	4.40	− 0.06	.	87	21	46.6	− 1.2	16	2.1	− 1.4
Apr.	5	E.	.	0	57	7.73	0.00	1	4.54	− 0.05	.	83	53	24.6	+ 1.8	15	59.9	− 1.0
	7	F.	.	1	4	26.14	− 0.02	1	4.68	+ 0.03	.	83	8	3.6	− 0.2	15	59.9	− 0.5
	20	Sk.	.	1	52	22.35	− 0.06	1	5.21	− 0.07	.	78	27	2.1	− 0.9	15	56.7	− 0.2
	21	E.	.	1	56	6.16	− 0.01	1	5.34	0.00	.	78	6	37.6	+ 0.8	15	57.4	+ 0.7
	22	F.	.	1	59	50.47	+ 0.11	1	5.38	− 0.03	.	77	46.4	....	...		....	....
	29	E.	.	2	26	13.30	− 0.05	1	5.88	− 0.02	.	75	30	32.2	+ 0.4	15	54.8	+ 0.2
May	6	Sk.	.	2	53	2.66	+ 0.03	1	6.34	− 0.12	.	73	26	15.7	− 1.3	15	53.2	+ 0.2
	7	E.	.	2	56	54.73	− 0.04	1	6.54	0.00	.	73	9	36.3	+ 0.8	15	53.0	+ 0.2
	11	E.	.	3	12	28.86	− 0.10	1	6.90	+ 0.03	.	72	5	43.1	+ 2.1	15	51.5	− 0.4
	13	Sk.	.	3	20	19.38	− 0.01	1	6.99	− 0.05	.	71	35	31.3	+ 0.1	15	50.9	− 0.7
	15	E.	.	3	28	11.97	− 0.10	1	7.16	− 0.05	.	71	6	36.3	+ 0.5	15	50.1	− 1.1
	17	F.	.	3	36	7.07	+ 0.09	1	7.37	0.00	.	70	38	57.1	+ 0.2	15	50.9	+ 0.1
	19	E.	.	3	44	4.03	− 0.05	1	7.49	− 0.04	.	70	12	36.4	− 0.4	15	50.0	− 0.4
	22	Sk.	.	3	56	3.90	+ 0.05	1	7.66	− 0.10	.	69	35	37.2	− 1.2	15	49.4	− 0.5
	26	Sk.	.	4	12	10.98	− 0.07	1	7.90	− 0.14	.	68	51	14.2	+ 0.7	15	49.2	0.0
	27	E.	.	4	16.2	....	....		....	....	.	68	41	3.1	+ 2.0	15	48.0	− 1.0
	28	F.	.	4	20	17.58	− 0.15	1	8.16	− 0.01	S.	68	31	10.3	− 1.0		...	....
	31	E.	.	4	32	31.26	− 0.05	1	8.30	− 0.05	.	68	3	54.8	+ 1.1	15	48.0	+ 0.4
June	1	F.	.	4	36	36.58	− 0.15	1	8.30	− 0.11	.	67	55	33.5	0.0	15	47.2	− 1.1
	4	E.	I	4	48	55.25	− 0.12		....	....	N.	67	32	52.0	0.0		....	....
	11	Sk.	.	5	17	49.90	− 0.05	1	8.75	− 0.11	.	66	53	48.6	+ 1.9	15	46.1	− 1.1
	17	F.	.	5	42	44.41	0.00	1	8.96	0.00	.	66	36	7.7	+ 1.4	15	46.0	− 0.7
	19	Sk.	.	5	51	3.39	+ 0.08	1	8.91	− 0.07	.	66	33	31.9	+ 1.7	15	46.2	− 0.4
	21	F.	.	5	59	22.37	+ 0.04	1	8.97	− 0.01	.	66	32	33.9	+ 0.9	15	45.6	− 0.8
	23	Sk.	.	6	7	41.30	− 0.01	1	8.89	− 0.08	.	66	33	15.4	+ 0.4	15	45.9	− 0.4
	25	F.	.	6	15	59.97	− 0.10	1	8.90	− 0.05	.	66	35	35.8	− 0.2	15	45.6	− 0.6
	29	F.	.	6	32	36.18	− 0.05	1	8.82	− 0.02	.	66	45	14.8	+ 0.9	15	45.1	− 1.0
July	8	E.	.	7	9	43.71	+ 0.03	1	8.46	− 0.01	.	67	30	37.5	+ 1.3	15	47.1	+ 0.9
	19	F.	.	7	54	20.90	+ 0.03	1	7.70	− 0.03	.	69	8	28.3	− 1.1	15	46.7	0.0
Aug.	5	E.	.	9	1	8.38	+ 0.04	1	6.30	0.00	.	73	1	18.8	0.0	15	48.0	− 0.5
	6	E.	.	9	4	58.76	+ 0.05	1	6.06	− 0.15	.	73	17	43.0	− 0.1	15	47.2	− 1.5
	9	P.	.	9	16	26.28	+ 0.13	1	5.92	− 0.04	.	74	8	30.1	− 1.5	15	48.0	− 1.2
	10	Sk.	.	9	20	14.13	+ 0.02	1	5.81	− 0.06	.	74	25	58.4	0.0	15	48.3	− 1.0
	19	E.	.	9	54	0.46	+ 0.08	1	5.15	− 0.03	.	77	13	34.4	+ 1.8	15	50.6	− 0.4
	20	P.	.	9	57	43.00	+ 0.04	1	4.93	− 0.18	.	77	33	14.3	− 0.3	15	50.2	− 0.9
	25	P.	.	10	16	9.32	+ 0.12	1	4.66	− 0.11	.	79	14	37.4	− 0.1	15	50.5	− 0.6
	26	Sk.	.	10	19	49.20	− 0.02	1	4.65	− 0.06	.	79	35	25.8	− 0.7	15	52.3	− 0.1
	30	P.	.	10	34	25.75	+ 0.12	1	4.45	− 0.05	.	81	0	21.5	+ 2.1	15	51.9	− 1.3
Sept.	1	P.	II	10	41	41.70	− 0.13		....	....	.	81	43	41.3	+ 2.0	15	53.5	− 0.2
	3	F.	.	10	48.9	....	....		....	....	.	82	27	31.3	+ 0.3	15	53.4	− 0.8
	4	P.	.	10	52	33.78	− 0.12	1	4.10	− 0.18	.	82	49	39.9	+ 1.9	15	53.5	− 0.9
	7	F.	.	11	3	23.74	+ 0.09	1	4.25	+ 0.06	.	83	56	38.0	− 1.2		....	....
	8	P.	.	11	6	59.88	+ 0.08	1	4.02	− 0.15	.	84	19	12.5	+ 0.8	15	54.7	− 0.7
	11	F.	.	11	17	47.24	+ 0.02	1	4.12	+ 0.01	.	85	27	22.7	+ 0.8	15	56.2	0.0
	21	F.	.	11	53	40.76	+ 0.17	1	4.08	0.00	.	89	18	51.7	+ 1.4	15	57.2	− 1.6
	24	P.	.	12	4	27.64	+ 0.06	1	4.03	− 0.10	.	90	29	1.5	+ 0.4	15	57.9	− 1.7
	25	F.	.	12	8	3.52	− 0.03	1	4.12	− 0.03	.	90	52	25.6	− 0.5	15	59.8	0.0
Oct.	2	E.	.	12	33	21.44	+ 0.08	1	4.41	0.00	.	93	36	4.0	− 0.6	16	2.5	+ 0.7
	5	Sk.	.	12	44	16.17	+ 0.10	1	4.48	− 0.08	.	94	45	42.4	− 0.4	16	1.3	− 1.3
	7	F.	.	12	51	34.41	+ 0.11	1	4.72	+ 0.05	.	95	31	48.6	− 1.9	16	3.3	+ 0.1
	8	Sk.	.	12	55	14.02	+ 0.03	1	4.66	− 0.07	.	95	54	47.8	− 0.1	16	3.4	− 0.1
	9	P.	.	12	58	54.22	+ 0.12	1	4.74	− 0.06	.	96	17	39.6	1.0	16	2.8	− 1.0
	13	Sk.	.	13	13	39.08	− 0.03	1	4.97	− 0.13	.	97	48	16.3	− 0.8	16	4.2	− 0.7
	20	P.	.	13	39	48.98	+ 0.18	1	5.56	− 0.13	.	100	22	26.6	− 0.4	16	5.8	− 1.0

S U N—Continued.

Date.		Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.		Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.		Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.		Vertical Semi-diameter.		Corr'n to Am. Eph.	
1875.				h	m	s		s	m	s		s		°	′	″		″	′	″		″
Oct.	21	Sk.	.	13	43	35.67	+	0.12	1	5.77	—	0.01	.	100	43	55.9	+	0.7	16	6.3	—	0.7
	25	Sk.	.	13	58	49.61	+	0.12	1	6.15	—	0.04	.	102	8	10.4	+	0.5	16	7.3	—	0.8
	26	E.	.	14	2	39.78	—	0.01	1	6.32	+	0.03	.	102	28	45.2	—	1.7	16	7.6	—	0.7
	27	F.	.	14	6	30.86	+	0.03	1	6.47	+	0.07	.	102	49	11.5	—	0.9	16	7.4	—	1.2
	28	P.	.	14	10	22.72	+	0.10	1	6.38	—	0.13	.	103	9	25.9		0.0	16	7.2	—	1.6
	29	Sk.	.	14	14	15.36	+	0.18	1	6.47	—	0.15	.	103	29	26.8	—	0.2	16	7.7	—	1.4
Nov.	2	P.	.	14	29	53.32	+	0.10	1	6.95	—	0.12	.	104	47	19.8	+	0.5	16	9.4	—	0.7
	6	Sk.	.	14	45	44.18	+	0.17	1	7.45	—	0.12	.	106	1	17.7	—	1.5	16	9.9	—	1.1
	9	P.	.	14	57	45.72	+	0.04	1	7.76	—	0.15	.	106	54	0.1	—	1.2	16	10.9	—	0.9
	11	E.	.	15	5	51.10	+	0.15	1	8.11	—	0.04	.	107	27	43.3		0.0	16	12.7	+	0.4
	12	P.	.	15	9	54.92	+	0.06	1	8.16	—	0.11	.	107	44	8.1	+	0.6	16	12.2	—	0.3
	13	F.	.	15	13	59.92	+	0.29	1	8.32	—	0.07	.	108	0	12.8	—	0.4	16	11.8	—	0.9
	17	P.	.	15	30	27.14	—	0.04	1	8.79	—	0.07	.	109	1.4	....		....		....		....
	19	E.	.	15	38	46.16	+	0.08	1	8.96	—	0.12	.	109	30	0.7	+	1.2	16	12.4	—	1.5
Nov.	22	Sk.	.	15	51	20.84	+	0.13	1	9.34	—	0.07	.	110	10	12.8	—	0.5	16	13.8	—	0.7
	30	Sk.	.	16	25	27.31	—	0.23	1	10.22	—	0.01	.	111	40	46.8	—	0.6	16	15.7	—	0.1
Dec.	2	F.	.	16	34	6.25	+	0.02	1	10.48	+	0.08	.	111	59	22.7	—	0.4	16	15.2	—	0.9
	13	E.	.	17	22	16.62	—	0.17	1	11.07	—	0.04	.	113	10.5	....		....		....		....
	16	P.	.	17	35	33.09	—	0.19	1	11.05	—	0.17	.	113	20	21.1	+	1.9	16	17.4	—	0.4
	20	P.	.	17	53	18.34	—	0.05	1	11.16	—	0.13	.	113	26	55.9	+	0.1	16	17.5	—	0.5
	21	E.	.	17	57	44.99	—	0.01	1	11.28	—	0.02	.	113	27	24.7	+	0.2	16	17.9	—	0.2
	23	Sk.	.	18	6	38.42	+	0.02	1	11.20	—	0.10	.	113	26	57.9	+	0.4	16	17.4	—	0.8
	27	Sk.	.	18	24	24.70	—	0.12	1	11.23	—	0.03	.	113	20	22.5	+	1.4	16	17.8	—	0.5
1876.																						
Jan.	14	E.	.	19	43	21.31	—	0.07	1	10.13	—	0.08	.	111	20	0.8	+	1.5	16	17.2	—	0.8
	21	P.	.	20	13	13.77	—	0.03	1	9.36	—	0.14	.	109	56	0.2	—	0.9	16	17.4		0.0
	24	S.	.	20	25	50.98	—	0.03	1	9.17	—	0.02	.	109	14	20.3	+	0.7	16	18.9	+	1.8
	26	E.	.	20	34	11.82	—	0.07	1	8.98	+	0.01	.	108	44	44.6	—	0.1	16	17.0	+	0.2
	28	S.	.	20	42.5	....		....		....		....	.	108	13	49.4	+	1.5	16	16.1	—	0.5
Feb.	5	S.	.	21	15	6.48	+	0.01	1	7.70	—	0.13	.	105	57	29.8	—	0.4	16	14.6	—	0.8
	7	E.	.	21	23.1	....		....		....		....	.	105	20	32.9	—	1.3	16	14.3	—	0.8
	8	F.	.	21	27	6.66	+	0.08	1	7.45	—	0.03	.	105	1	42.5	—	0.2	16	14.8	—	0.1
	12	F.	I	21	42	55.56	+	0.02		....		....	.	103	43	47.7	—	2.2	16	13.5	—	0.7
	16	F.	.	21	58	32.73	+	0.26	1	6.59	—	0.03	.	102	22	21.2	+	0.5	16	11.7	—	1.7
	17	S.	.	22	2	24.91	—	0.01	1	6.49	—	0.02	.	102	1	26.0	—	1.6	16	12.9	—	0.3
	18	P.	.	22	6	16.53	—	0.16	1	6.32	—	0.09	.	101	40	22.1	—	0.7	16	11.7	—	1.2
	19	E.	.	22	10	7.68	—	0.09	1	6.24	—	0.07	.	101	19	6.4	—	0.6	16	11.6	—	1.1
	23	E.	.	22	25	25.56	—	0.04	1	5.91	—	0.02	.	99	52	20.7	+	0.4	16	12.0	+	0.2
	24	F.	.	22	29	13.56	+	0.07	1	5.85	+	0.01	.	99	30	13.5	—	1.6	16	10.2	—	1.4
	25	S.	.	22	33	0.74	—	0.04	1	5.75	—	0.01	.	99	8	0.3	—	1.1	16	11.3		0.0
Mar.	2	E.	.	22	55	32.62	—	0.06	1	5.25	—	0.05	.	96	52	4.5	+	2.2	16	9.2	—	0.7
	3	F.	.	22	59	16.20	+	0.03	1	5.18	—	0.05	.	96	29	0.2	—	0.2	16	8.9	—	0.8
	4	S.	.	23	2	59.17	—	0.02	1	5.07	—	0.09	.	96	5	52.8	—	0.3	16	8.1	—	1.3
	6	P.	.	23	10	23.81	—	0.07	1	4.98	—	0.06	.	95	19	25.7	+	0.8	16	7.6	—	1.3
	9	P.	.	23	21	27.88	—	0.01	1	4.76	—	0.12	.	94	9	12.6	+	0.2	16	6.0	—	2.2
	21	P.	II	0	5	19.34	—	0.03		....		....	.	89	25	21.9	+	0.2	16	3.9	—	1.0
	22	E.	.	0	8	57.60	—	0.05	1	4.50	+	0.01	.	89	1	41.6	—	0.2	16	3.8	—	0.8
	27	F.	.	0	27	8.43	+	0.02	1	4.50	+	0.04	.	87	3	54.6	+	0.7	16	3.3	+	0.1
Apr.	1	S.	.	0	45	19.59	—	0.03	1	4.49	—	0.02	.	85	7	34.2	—	0.2	16	2.4	+	0.6
	5	S.	.	0	59	54.54	+	0.11	1	4.53	—	0.09	.	83	36	3.6	—	0.9	16	0.2	—	0.6
	6	P.	.	1	3	33.55	—	0.01	1	4.49	—	0.16	.	83	13	28.1	+	0.2	15	59.5	—	1.0
	8	F.	.	1	10	52.58	+	0.12	1	4.71	—	0.01	.	82	28.6	....		....		....		....
	10	P.	.	1	18	12.28	—	0.06	1	4.67	—	0.13	S.	81	44	11.6	—	2.8		....		....
	11	E.	.	1	21	52.65	—	0.06	1	4.81	—	0.03	.	81	22	14.7	—	1.1	15	58.0	—	1.1
	12	F.	.	1	25	33.59	+	0.19	1	4.82	—	0.07	.	81	0	22.7	—	3.0	15	59.0	+	0.2
	15	E.	.	1	36.6	....		....		....		....	.	79	55	48.7	—	0.9	15	58.5	+	0.5
	17	S.	.	1	44	2.20	+	0.03	1	5.06	—	0.08	.	79	13	33.6	—	0.6	15	56.6	—	0.9
	19	E.	.	1	51	28.40	—	0.06	1	5.25	—	0.01	.	78	32	0.0	—	0.7	15	56.4	—	0.6
	20	F.	.	1	55	12.32	+	0.08	1	5.24	—	0.08	.	78	11	30.4	—	0.2	15	54.7	—	2.0

S U N—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1876.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Apr. 29	S.	.	2 29 7.39	− 0.10	1 5.89	− 0.08	.	75 16 22.0	− 0.1	15 53.4	− 1.1
May 1	E.	.	2 36 45.25	0.00	1 6.09	− 0.04	.	74 39 59.8	+ 0.3	15 53.4	− 0.6
4	P.	.	2 48 15.75	− 0.12	1 6.27	− 0.10	.	73 47 21.1	+ 0.6	15 52.7	− 0.6
5	E.	.	2 52.1	....	....	....	.	73 30 18.5	− 1.0	15 52.7	− 0.4
13	P.	.	3 23 17.90	− 0.05	1 7.04	− 0.07	.	71 24 27.1	+ 0.6	15 50.7	− 0.7
15	P.	.	3 31 11.51	− 0.01	1 7.14	− 0.13	.	70 55 59.0	− 0.2	15 49.7	− 1.3
20	P.	.	3 51 5.62	+ 0.03	1 7.56	− 0.10	.	69 50 33.7	+ 1.2	15 48.7	− 1.3
22	P.	I	3 59 7.06	− 0.07	....	....	.	69 26 46.2	+ 1.8	15 48.5	− 1.2
23	S.	.	4 3 8.70	0.00	1 7.82	− 0.06	.	69 15 21.9	+ 0.3	15 49.6	+ 0.1
29	E.	.	4 27 28.40	+ 0.07	1 8.24	− 0.04	.	68 14 44.4	+ 0.6	15 47.6	− 1.0
June 1	P.	.	4 39 43.95	− 0.06	1 8.33	− 0.13	.	67 49 29.0	+ 0.6	15 46.6	− 0.6
2	E.	.	4 43 49.92	− 0.07	1 8.47	− 0.04	.	67 41 48.1	− 1.3	15 48.1	0.0
3	F.	.	4 47 56.40	+ 0.06	1 8.50	− 0.06	.	67 34 32.1	− 1.6	15 46.3	− 1.7
27	F.	.	6 27 28.51	+ 0.15	1 8.86	− 0.02	.	66 41 33.4	+ 0.2	15 45.4	− 0.8
28	S.	.	6 31 37.20	+ 0.02	1 8.79	− 0.06	.	66 44 30.2	+ 1.2	15 45.1	− 1.0
29	P.	.	6 35 45.69	− 0.07	1 8.71	− 0.11	.	66 47 50.8	+ 1.5	15 45.0	− 1.1
30	E.	.	6 39 54.04	− 0.05	1 8.84	+ 0.05	.	66 51 34.3	+ 0.5	15 44.7	− 1.4
July 1	F.	.	6 44 2.22	+ 0.06	1 8.70	− 0.05	.	66 55 42.2	− 0.5	15 44.3	− 1.8
3	P.	.	6 52 17.35	− 0.08	1 8.58	− 0.10	.	67 5 13.1	+ 0.4	15 44.4	− 1.7
6	P.	.	7 4 37.76	− 0.11	1 8.44	− 0.09	.	67 22 27.1	+ 0.4	15 45.1	− 1.1
10	S.	.	7 21.0	....	....	....	.	67 50 52.5	− 0.4	15 44.7	− 1.6
11	P.	.	7 25 4.36	− 0.02	1 8.14	− 0.11	.	67 58 57.6	+ 0.4	15 44.8	− 1.5
12	F.	.	7 29 8.50	+ 0.08	1 8.21	+ 0.02	.	68 7 25.1	+ 1.1	15 45.3	− 1.1
18	S.	.	7 53 22.48	− 0.26	1 7.68	− 0.07	.	69 5 51.2	+ 0.3	15 46.1	− 0.6
19	P.	.	7 57 23.21	− 0.11	1 7.54	− 0.13	.	69 16 51.9	+ 0.8	15 45.6	− 1.2
20	E.	.	8 1 23.34	− 0.02	1 7.57	− 0.02	.	69 28 13.4	+ 0.9	15 46.4	− 0.4
21	F.	.	8 5 22.88	+ 0.03	1 7.47	− 0.04	.	69 39 54.7	+ 0.5	15 46.0	− 0.9
22	S.	.	8 9 21.80	+ 0.03	1 7.37	− 0.06	.	69 51 57.0	+ 0.3	15 45.8	− 1.2
25	F.	.	8 21 15.04	+ 0.05	1 7.19	+ 0.02	.	70 30 4.2	+ 0.1	15 46.7	− 0.6
26	S.	.	8 25 11.61	+ 0.09	1 7.05	− 0.04	.	70 43 27.0	+ 1.3	15 46.2	− 1.2
27	P.	.	8 29 7.38	− 0.04	1 6.84	− 0.16	S.	70 57 5.7	− 0.6	....	....
Aug. 9	E.	.	9 19 18.38	+ 0.01	1 5.90	0.00	.	74 21 40.0	− 0.2	15 49.3	0.0
15	F.	.	9 41 55.36	+ 0.17	1 5.40	0.00	.	76 11 4.4	+ 0.9	15 49.7	− 0.6
21	E.	.	10 4 13.72	+ 0.04	1 4.86	− 0.12	.	78 8 23.6	− 1.3	15 50.8	− 0.6
26	F.	.	10 22 36.60	+ 0.17	1 4.64	− 0.04	.	79 51 23.9	− 1.3	15 52.1	− 0.4
28	E.	.	10 29 54.72	+ 0.07	1 4.64	+ 0.07	N.	80 33 46.5	− 0.1	....	....
30	F.	.	10 37 11.46	+ 0.06	1 4.52	+ 0.05	.	81 16 42.3	− 1.1	15 52.4	− 1.0
Sept. 2	F.	.	10 48 4.13	+ 0.02	1 4.38	+ 0.04	.	82 22 9.2	− 1.1	15 53.2	− 0.9
4	S.	.	10 55 17.91	+ 0.02	1 4.21	− 0.05	.	83 6 26.0	+ 0.4	15 55.1	+ 0.5
15	F.	.	11 34 52.06	+ 0.21	1 4.04	− 0.02	.	87 16 49.3	− 0.7	15 58.1	+ 0.7
20	S.	.	11 52 49.10	+ 0.09	1 4.00	− 0.07	.	89 13 16.1	− 0.4	15 59.4	+ 0.7
28	S.	.	12 21 37.35	+ 0.03	1 4.17	− 0.10	.	92 20 26.1	− 0.5	16 0.8	− 0.1
29	P.	.	12 25 14.10	− 0.09	1 4.20	− 0.11	.	92 43 48.6	− 0.3	16 0.2	− 1.0
Oct. 2	S.	.	12 36 6.42	+ 0.02	1 4.40	− 0.05	.	93 53 40.2	− 1.0	16 1.4	− 0.6
3	P.	.	12 39 44.39	− 0.03	1 4.41	− 0.09	.	94 16 53.3	− 0.2	16 0.6	− 1.7
6	S.	.	12 50 40.66	+ 0.01	1 4.60	− 0.06	.	95 26 11.2	− 0.4	16 2.2	− 1.0
7	P.	.	12 54 20.08	− 0.13	1 4.64	− 0.08	.	95 49 8.8	− 0.9	16 2.1	− 1.3
9	P.	.	13 1 40.69	+ 0.03	1 4.76	− 0.09	.	96 34 52.2	− 0.6	16 2.0	− 0.2
12	P.	.	13 12 45.10	+ 0.09	1 4.94	− 0.14	.	97 42 45.8	− 2.4	16 3.7	− 1.1
13	F.	.	13 16.5	....	....	....	.	98 5 12.2	− 2.4	16 5.5	+ 0.5
17	F.	II	13 31 23.34	+ 0.12	....	....	N.	99 33 47.3	− 2.1	....	....
19	P.	.	13 38 54.74	+ 0.03	1 5.62	− 0.05	.	100 17 18.0	− 0.6	16 6.3	− 0.4
24	E.	.	13 57 54.69	− 0.09	1 6.14	− 0.02	.	102 3 12.9	− 1.3	16 7.6	− 0.4
27	P.	.	14 9 27.09	− 0.07	1 6.39	− 0.09	.	103 4 35.8	− 0.7	16 7.7	− 1.2
Nov. 1	E.	.	14 28 56.12	0.00	1 6.98	− 0.06	.	104 42 41.1	− 0.1	16 8.8	− 1.3
2	F.	.	14 32 52.33	+ 0.05	1 7.14	− 0.02	.	105 1 35.6	− 1.2	16 10.6	+ 0.2
4	P.	.	14 40 46.99	− 0.08	1 7.28	− 0.12	.	105 38 43.0	− 0.9	16 9.3	− 1.5
8	P.	.	14 56 46.79	− 0.02	1 7.76	− 0.12	.	106 49 48.5	− 0.7	16 9.9	− 1.9
9	E.	.	15 0 48.94	+ 0.03	1 7.94	− 0.06	.	107 6 52.7	− 1.3	16 11.2	− 0.8

S U N—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1876.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Nov. 10	S.	.	15 4 51.97	+ 0.09	1 8.00	— 0.12	.	107 23 40.6	— 0.7	16 9.9	— 2.3
13	E.	.	15 17 5.99	+ 0.02	1 8.50	+ 0.02	.	108 12 13.6	— 0.6	16 11.2	— 1.6
22	F.	.	15 54.6	....	1 9.56	+ 0.06	.	110 19 53.2	— 2.6	16 13.1	— 1.6
24	S.	.	16 3 2.20	0.00	1 9.64	— 0.07	.	110 44 18.6	— 0.4	16 14.7	— 0.3
Dec. 6	P.	.	16 54 49.34	— 0.10	1 10.66	— 0.10	.	112 36 40.1	— 2.5	16 15.3	— 1.5
7	E.	.	16 59 12.23	— 0.03	1 10.74	— 0.09	.	112 43 16.9	— 1.2	16 17.1	+ 0.1
13	S.	.	17 25 38.44	— 0.13	1 11.06	— 0.08	.	113 13 21.8	+ 0.4	16 17.3	— 0.3
15	E.	.	17 34 30.00	— 0.11	1 11.22	+ 0.01	.	113 19 39.9	— 1.8	16 17.6	— 0.1
19	E.	.	17 52 15.70	+ 0.08	1 11.26	— 0.03	.	113 26 43.5	— 1.1	16 16.9	— 1.1
27	E.	.	18 27 47.88	— 0.06	1 11.25	+ 0.01	.	113 18 12.0	— 0.6	16 19.5	+ 1.1
1877.											
Jan. 24	E.	.	20 29 2.88	+ 0.01	1 9.04	— 0.07	.	109 3.2	....	....	....
26	S.	.	20 37 22.35	+ 0.16	1 8.82	— 0.06	.	108 33 4.1	— 0.1	16 15.2	— 1.6
27	P.	.	20 41 30.59	— 0.03	1 8.67	— 0.10	.	108 17 29.6	— 1.9	16 15.0	— 1.7
29	F.	.	20 49.7	....	....	....	.	107 45 26.6	— 0.7	16 15.2	— 1.2
30	S.	.	20 53 51.08	+ 0.14	1 8.38	— 0.04	.	107 28 56.1	— 0.4	16 14.7	— 1.5
31	E.	.	20 57 56.04	— 0.04	1 8.22	— 0.09	.	107 12 8.1	+ 0.9	16 14.8	— 1.3
Feb. 6	F.	.	21 22 10.06	+ 0.12	1 7.70	+ 0.07	.	105 25 3.4	— 0.2	16 15.4	+ 0.3
7	S.	.	21 26 9.42	— 0.04	1 7.48	— 0.04	.	105 6 14.7	— 0.6	16 13.6	— 1.3
8	P.	.	21 30 8.25	+ 0.04	1 7.25	— 0.16	.	104 47 11.7	— 0.1	16 13.2	— 1.6
9	E.	.	21 34 6.11	— 0.06	1 7.32	+ 0.02	.	104 27 54.7	+ 1.6	16 14.2	— 0.4
10	F.	.	21 38 3.48	+ 0.12	1 7.14	— 0.05	.	104 8 19.5	— 0.4	16 12.5	— 1.9
13	E.	.	21 49 50.16	— 0.16	1 6.90	+ 0.05	.	103 8 18.1	+ 0.4	16 12.8	— 1.0
15	S.	.	21 57 37.98	+ 0.09	1 6.52	— 0.12	.	102 27 11.7	0.0	16 13.0	— 0.4
17	E.	.	22 5 22.52	— 0.01	1 6.45	+ 0.02	.	101 45 17.3	— 0.8	16 12.8	— 0.2
21	E.	.	22 20 43.39	— 0.01	1 6.07	+ 0.02	.	100 19 23.5	+ 1.0	16 14.8	— 0.9
28	P.	.	22 47 10.46	— 0.01	1 5.41	— 0.05	.	97 43 15.8	+ 0.1	16 10.3	— 1.2
Mar. 1	E.	.	22 50 55.00	+ 0.03	1 5.42	+ 0.03	.	97 20 28.1	+ 0.1	16 8.6	— 1.6
6	S.	.	23 9 30.60	+ 0.07	1 5.02	— 0.04	.	95 25 2.1	— 0.1	16 8.3	— 0.7
15	P.	.	23 42 35.58	— 0.05	1 4.54	— 0.09	.	91 53 10.1	+ 1.4	16 5.2	— 1.4
30	F.	.	0 37 10.62	+ 0.15	1 4.49	+ 0.01	.	85 59 29.5	+ 0.1	16 1.2	— 1.3
Apr. 3	F.	.	0 51.7	....	....	....	.	84 27 11.6	+ 0.4	16 1.4	0.0
7	F.	.	1 6 20.08	+ 0.10	1 4.64	— 0.03	.	82 56 24.5	+ 0.5	16 0.1	— 0.1
11	F.	.	1 21 0.00	— 0.04	1 4.81	— 0.01	.	81 27 30.3	+ 0.6	15 59.2	+ 0.1
12	S.	.	1 24 40.82	+ 0.03	1 4.77	— 0.10	.	81 5 36.4	— 0.2	15 58.6	— 0.2
24	S.	.	2 9 17.96	— 0.01	1 5.48	— 0.10	.	76 56 11.0	— 1.1	15 56.4	+ 0.6
May 4	E.	.	2 47 19.52	— 0.04	1 6.28	— 0.07	.	73 51 34.6	+ 1.4	15 52.8	— 0.6
7	P.	.	2 58 54.84	— 0.07	1 6.44	— 0.15	.	73 1 6.6	+ 0.6	15 51.0	— 1.7
10	S.	.	3 10 35.44	— 0.12	1 6.74	— 0.09	.	72 13 12.1	+ 1.6	15 50.9	— 0.1
11	S.	I	3 14 30.33	+ 0.04	....	....	S.	71 57 45.4	1.7	....	....
15	P.	.	3 30 14.86	— 0.08	1 7.10	— 0.14	.	70 59 19.5	+ 0.7	15 50.0	— 1.0
18	S.	.	3 42 9.34	— 0.01	1 7.38	— 0.10	.	70 18 50.2	+ 1.2	15 49.3	— 1.1
28	E.	.	4 22.4	....	....	....	.	68 26 15.4	+ 1.1	15 48.1	— 0.7
June 1	E.	.	4 38 43.86	+ 0.10	1 8.37	— 0.07	.	67 51 27.2	+ 1.6	15 47.9	— 0.3
8	P.	.	5 7 32.64	— 0.13	1 8.58	— 0.19	.	67 5 25.4	+ 0.4	15 44.8	— 2.6
13	E.	I	5 28 16.24	— 0.07	....	....	N.	66 44 36.7	+ 2.0	....	....
19	S.	.	5 53 12.86	— 0.15	1 9.14	+ 0.17	.	66 33 8.2	+ 1.5	15 45.4	— 1.1
20	P.	.	5 57 22.52	— 0.05	1 8.88	— 0.09	.	66 32 39.2	+ 0.5	15 44.4	— 2.0
23	S.	.	6 9 51.10	+ 0.09	1 8.94	— 0.02	.	66 33 45.1	+ 1.6	15 45.9	— 0.4
26	F.	II	6 22 18.62	+ 0.01	....	....	.	66 38 31.0	+ 0.3	15 45.4	— 0.8
July 7	E.	.	7 7 44.20	— 0.12	1 8.52	+ 0.03	.	67 27 23.7	+ 2.4	15 45.9	— 0.3
12	F.	.	7 28 10.13	+ 0.04	1 8.16	— 0.04	.	68 5 22.0	+ 0.3	15 46.6	+ 0.3
13	S.	.	7 32 13.94	+ 0.05	1 8.08	— 0.05	.	68 14 8.1	+ 1.9	15 45.3	— 1.3
28	F.	.	8 32 5.42	+ 0.07	1 6.94	— 0.01	.	71 7 39.8	+ 0.2	15 47.0	— 0.6
30	P.	.	8 39 54.20	— 0.10	1 6.66	— 0.12	.	71 36 25.1	+ 1.2	15 46.4	— 1.5
Aug. 10	S.	.	9 22 11.74	+ 0.15	1 5.74	— 0.08	.	74 35 7.1	+ 1.7	15 49.0	— 0.4
Oct. 5	S.	.	12 46 8.74	+ 0.05	1 4.51	— 0.07	.	94 57 35.7	+ 0.1	16 2.0	— 0.7
13	S.	.	13 15 34.42	+ 0.06	1 5.06	— 0.08	.	97 59 52.9	— 1.2	16 5.0	0.0
Nov. 1	P.	.	14 27 58.48	— 0.07	1 6.96	— 0.05	.	104 38 0.0	— 1.5	16 8.4	— 1.6

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
1877.			h	m	s	s	m	s	s		°	′	″	″	′	″	″
Nov. 3	F.	.	14	35	51.59	+ 0.02	1	7.30	+ 0.05	.	105	15	46.2	— 0.9	16	10.4	— 0.1
7	F.	.	14	51	47.91	+ 0.28	1	7.70	— 0.03	.	106	28.2	....	....		....	...
12	E.	.	15	12	1.65	+ 0.10	1	8.28	— 0.05	.	107	52	28.4	— 0.7	16	11.9	— 0.7
13	P.	.	15	16	6.98	+ 0.13	1	8.46	+ 0.01	.	108	8	25.4	— 0.1	16	11.8	— 1.0
16	E.	.	15	28	27.81	+ 0.12	1	8.74	— 0.05	.	108	54	19.6	+ 1.4	16	12.4	— 1.1
20	E.	.	15	45	6.90	— 0.13	1	9.34	+ 0.09	.	109	50	42.8	— 0.4	16	14.6	+ 0.4
Dec. 3	P.	.	16	40	40.44	0.05	1	10.36	— 0.16	.	112	12	16.1	— 2.1	16	14.8	— 1.6
14	E.	II	17	28	59.61	— 0.10		....	....	.	113	15	56.2	— 0.1	16	17.5	— 0.1
15	F.	.	17	33	25.56	+ 0.16	1	11.18	— 0.02	.	113	18	57.3	— 1.6	16	17.2	— 0.5
18	E.	.	17	46	43.69	+ 0.04	1	11.28	+ 0.01	.	113	25	17.3	— 1.7	16	18.3	+ 0.3
1878. Feb. 4	E.	.	21	13	9.80	— 0.03	1	7.91	+ 0.02	.	106	6	13.7	— 0.6	16	15.3	— 0.2
6	S.	.	21	21	11.84	+ 0.07	1	7.77	+ 0.05	.	105	29	31.8	— 0.6	16	13.6	— 1.6
7	P.	.	21	25	11.36	— 0.15	1	7.41	— 0.13	.	105	10	45.6	— 2.1	16	13.6	— 1.4
19	P.	.	22	12	7.30	+ 0.02	1	6.26	0.00	.	101	7	58.1	— 1.8	16	11.9	— 0.7
27	P.	.	22	42	29.90	— 0.02	1	5.44	— 0.12	.	98	11	30.8	— 0.3	16	9.8	— 1.0
28	E.	.	22	46	15.20	— 0.01	1	5.43	— 0.05	.	97	48	49.4	— 1.2	16	8.5	— 2.0
Mar. 1	F.	.	22	49	59.99	+ 0.01	1	5.39	— 0.01	.	97	26	0.9	— 2.4	16	10.6	+ 0.3
19	P.	.	23	56	17.50	— 0.04	1	4.43	— 0.12	.	90	24	8.3	— 0.3	16	4.1	— 1.5
23	P.	.	0	10	50.57	— 0.02	1	4.40	— 0.08	.	88	49	27.6	— 0.9	16	2.1	— 2.4
Apr. 2	F.	.	0	47	12.45	— 0.06	1	4.50	— 0.02	.	84	55	39.2	— 2.1	16	0.4	— 1.3
5	E.	.	0	58	8.90	— 0.03	1	4.58	— 0.02	.	83	47	1.1	— 1.0	16	0.4	— 0.5
11	S.	.	1	20	7.08	— 0.02	1	4.74	— 0.08	.	81	32	44.6	— 3.0	15	58.4	— 0.8
12	P.	.	1	23	47.67	0.00	1	4.76	— 0.11	.	81	10	50.8	— 2.5	15	57.5	— 1.5
13	E.	.	1	27	28.49	0.04	1	4.94	+ 0.03	.	80	49	6.6	— 1.2	15	58.5	— 0.2
17	E.	.	1	42	15.28	— 0.07	1	5.14	+ 0.02	.	79	23	38.3	— 2.5	15	55.7	— 2.0
22	F.	.	2	0	52.75	+ 0.02	1	5.39	— 0.04	.	77	40	46.8	— 1.9	15	55.2	— 1.2
30	F.	.	2	31	5.48	— 0.04	1	6.06	+ 0.06	.	75	6	55.8	+ 0.7	15	53.5	— 0.8
May 1	S.	.	2	34	54.45	— 0.04	1	5.98	— 0.11	.	74	48	44.0	+ 0.6	15	52.7	— 1.4
6	E.	II	2	54	7.41	— 0.11		....	....	N.	73	21	38.8	+ 1.1		....	...
8	F.	.	3	1	52.65	+ 0.04	1	6.60	— 0.05	.	72	48	42.3	+ 0.6	15	52.9	+ 0.3
9	S.	.	3	5	45.96	— 0.02	1	6.62	— 0.11	.	72	32	38.0	— 1.4	15	50.0	— 2.3
22	P.	.	3	57	10.87	— 0.06	1	7.66	— 0.11	.	69	32	23.9	— 0.5	15	47.9	— 1.9
23	S.	.	4	1	12.06	— 0.08	1	7.78	— 0.06	.	69	20	53.5	+ 1.7	15	49.8	+ 0.2
27	E.	.	4	17	22.28	+ 0.03	1	8.14	+ 0.02	.	68	38	14.6	— 1.3	15	46.8	— 2.2
June 4	E.	.	4	50	4.68	0.00	1	8.54	— 0.04	.	67	30	59.6	+ 0.4	15	46.7	— 1.2
7	P.	.	5	2	26.57	— 0.02	1	8.61	— 0.10	.	67	12	10.4	0.0	15	47.1	— 0.5
13	F.	.	5	27	17.14	+ 0.01	1	8.94	+ 0.04	.	66	45	24.6	+ 1.2	15	46.0	— 1.0
14	P.	.	5	31	25.96	— 0.22	1	8.92	0.00	.	66	42	21.8	+ 0.7	15	46.1	— 0.8
15	S.	.	5	35	35.34	— 0.04	1	8.82	— 0.12	.	66	39	43.0	— 0.4	15	45.1	— 1.7
20	E.	.	5	56	22.58	— 0.06	1	8.92	— 0.06	.	66	32	45.1	+ 0.2	15	45.3	— 1.2
24	E.	.	6	13	0.82	+ 0.02	1	8.88	— 0.07	.	66	34	36.1	— 0.4	15	46.3	0.0
25	F.	.	6	17	10.16	— 0.04	1	8.94	+ 0.01	.	66	36	6.6	+ 0.2	15	45.1	— 1.2
Sept. 14	S.	.	11	29	34.32	— 0.02	1	4.02	— 0.05	.	86	42	44.2	0.0	15	55.6	— 1.5
16	E.	.	11	36	44.72	— 0.16	1	4.06	— 0.01	.	87	28	58.2	— 1.8	15	56.6	— 0.9
18	S.	.	11	43	55.41	— 0.02	1	4.00	— 0.06	.	88	15	26.9	— 1.3	15	57.0	— 1.0
19	P.	.	11	47	30.68	— 0.09	1	3.95	— 0.11	.	88	38	43.7	— 2.5	15	56.8	— 1.5
20	E.	.	11	51.1	....	....		....	....	.	89	2	4.5	— 1.8	15	57.6	— 0.9
27	Pr.	.	12	16	17.46	— 0.02	1	4.25	+ 0.04	.	91	45	54.4	— 0.9	16	0.4	0.0
28	P.	.	12	19	54.12	+ 0.02	1	4.16	— 0.08	.	92	9	19.3	+ 0.1	16	0.0	— 0.7
Oct. 10	Pr.	.	13	3	36.73	+ 0.08	1	4.84	— 0.05	.	96	46	49.7	+ 1.2	16	3.5	— 0.6
14	Pr.	I	13	18	23.98	— 0.06		....	....	.	98	16	54.3	+ 0.7	16	5.2	0.0
15	F.	.	13	22	7.25	+ 0.01	1	5.23	— 0.05	.	98	39	7.7	— 1.0	16	5.8	+ 0.4
16	S.	.	13	25	51.21	+ 0.19	1	5.31	— 0.05	.	99	1	15.1	— 1.4	16	5.4	— 0.3
22	Pr.	.	13	48.4	....	....		....	....	.	101	11	9.3	— 0.4	16	8.0	+ 0.7
24	S.	I	13	56	4.34	+ 0.01		....	....	.	101	53	11.4	— 0.3	16	9.2	+ 1.4
26	S.	.	14	3	44.68	+ 0.08	1	6.26	— 0.06	.	102	34	29.9	— 0.1	16	8.2	— 0.1
28	Pr.	.	14	11	27.71	— 0.11	1	6.42	— 0.12	.	103	15.0	....	....		....	....
Nov. 1	S.	.	14	27	3.32	— 0.03	1	6.96	— 0.02	.	104	33	29.0	— 1.2	16	8.8	— 1.1

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1878.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Nov. 4	S.	.	14 38 53.17	— 0.07	1 7.30	— 0.04	.	105 29 52.6	— 1.5	16 9.5	— 1.1
5	F.	.	14 42 51.65	+ 0.17	1 7.54	+ 0.08	.	105 48 8.9	— 2.9	16 9.1	— 1.8
9	F.	.	14 58 52.78	+ 0.11	1 7.90	— 0.04	.	106 58 39.9	— 1.2	16 11.3	— 0.5
11	Pr.	.	15 6 58.19	- 0.13	1 8.25	+ 0.07	.	107 32 11.3	— 1.9	16 12.4	+ 0.1
13	S.	.	15 15 7.52	+ 0.10	1 8.39	— 0.03	.	108 4 32.9	— 0.2	16 11.6	— 1.1
14	Pr.	.	15 19 13.38	+ 0.13	1 8.52	— 0.02	.	108 20 12.4	— 2.5	16 13.9	0.0
19	Pr.	.	15 39 55.50	+ 0.11	1 9.02	— 0.09	.	109 33 46.5	— 0.5	16 13.6	— 0.3
29	S.	.	16 22 20.56	+ 0.09	1 10.07	— 0.08	.	111 33 34.1	+ 0.4	16 15.1	— 0.6
Dec. 2	F.	.	16 35 17.90	+ 0.09	1 10.44	+ 0.02	.	112 1 44.7	+ 1.6	16 15.3	— 0.9
3	S.	.	16 39 38.16	0.00	1 10.42	— 0.08	.	112 10.3	....	....	....
7	S.	.	16 57 5.19	+ 0.20	1 10.68	— 0.11	.	112 40 5.9	+ 0.3	16 16.2	— 0.7
11	S.	.	17 14 39.52	+ 0.03	1 10.97	— 0.05	.	113 2 46.8	— 2.4	16 17.2	— 0.1
13	Pr.	.	17 23 28.98	— 0.14	1 11.12	0.00	.	113 11 25.1	— 2.2	16 18.4	+ 0.9
14	F.	.	17 27 54.62	+ 0.20	1 11.18	+ 0.02	.	113 15 5.3	+ 0.4	16 17.7	+ 0.1
18	F.	.	17 45 38.14	— 0.16	1 11.16	— 0.10	.	113 24 56.2	+ 0.5	16 17.1	— 0.8
19	S.	.	17 50 4.77	0.00	1 11.16	— 0.12	S.	113 26 10.7	— 2.2	....	....
23	S.	II	18 7 51.43	+ 0.04	....	....	.	113 26 37.3	— 1.6	16 17.4	— 0.8
1879.											
Jan. 30	Pr.	.	20 51 50.86	+ 0.02	1 8.45	— 0.04	.	107 37 0.4	+ 1.2	16 15.6	— 0.7
31	F.	.	20 55.9	....	1 8.35	— 0.03	.	107 20.5	....	16 16.4	+ 0.2
Feb. 3	Pr.	.	21 8.1	....	....	....	.	106 28 29.7	+ 0.7	16 14.6	— 1.1
4	F.	.	21 12 10.70	+ 0.21	1 7.92	0.00	.	106 10.6	....	....	....
15	S.	.	21 55 42.92	— 0.07	1 6.62	— 0.07	.	102 37 22.5	+ 0.6	16 12.8	— 0.7
21	S.	.	22 18 50.98	+ 0.14	1 6.08	— 0.01	.	100 30.0	....	....	....
27	Pr.	.	22 41 35.46	— 0.04	1 5.65	+ 0.08	.	98 16 54.3	— 1.9	16 11.0	+ 0.1
28	F.	.	22 45 21.06	+ 0.17	1 5.58	+ 0.08	.	97 54 17.8	0.0	16 9.8	— 0.8
Mar. 1	S.	.	22 49 5.88	+ 0.15	1 5.39	— 0.04	.	97 31 31.5	— 1.2	16 8.0	— 2.4
5	S.	.	23 4 0.28	+ 0.21	1 5.10	— 0.06	.	95 59 32.4	— 0.5	16 8.2	— 1.2
7	Pr.	.	23 11 24.55	+ 0.04	1 4.96	— 0.08	.	95 13 2.0	— 0.6	16 8.4	— 0.5
12	F.	.	23 29 49.21	+ 0.12	1 4.80	+ 0.03	.	93 15 41.0	+ 0.2	16 6.3	— 1.3
Apr. 1	F.	.	0 42 41.74	+ 0.15	1 4.51	0.00	.	85 24 20.1	+ 0.4	16 1.0	— 1.1
8	Pr.	II	1 8 13.43	— 0.05	....	....	.	82 44 49.6	— 0.6	16 1.1	+ 0.9
9	F.	.	1 11 53.13	— 0.01	1 4.68	— 0.06	.	82 22 28.0	— 1.5	16 1.4	+ 0.5
12	Pr.	.	1 22 57.70	— 0.08	1 4.86	0.00	.	81 16 15.2	+ 0.4	15 59.6	+ 0.5
21	F.	.	1 56 14.92	+ 0.09	1 5.36	+ 0.02	.	78 5 50.2	— 1.8	15 55.4	— 1.3
24	Pr.	.	2 7 29.27	— 0.09	1 5.52	— 0.02	.	77 5 43.4	+ 0.2	15 54.5	— 1.4
May 2	Pr.	.	2 37 49.31	+ 0.11	1 6.10	+ 0.05	.	74 35 5.2	— 0.3	15 54.6	+ 0.6
3	F.	.	2 41 39.03	+ 0.04	1 6.23	0.00	.	74 17 21.5	+ 0.1	15 53.4	— 0.4
7	F.	.	2 57 3.88	+ 0.27	1 6.56	+ 0.01	.	73 9 2.2	— 1.1	15 52.4	— 0.5
10	Pr.	.	3 8 43.12	+ 0.01	1 6.79	— 0.01	.	72 20 45.4	+ 0.8	15 52.0	— 0.2
23	F.	.	4 0 15.14	+ 0.03	1 7.82	— 0.01	.	69 23 35.7	— 0.1	15 49.1	— 0.6
24	S.	.	4 4 16.72	— 0.09	1 7.85	— 0.05	.	69 12 20.5	+ 1.0	15 49.0	— 0.5
28	S.	.	4 20 28.48	0.00	1 8.08	— 0.10	.	68 30 52.1	+ 1.0	15 48.7	— 0.2
June 4	F.	.	4 49 5.37	— 0.04	1 8.54	— 0.04	N.	67 32 42.6	+ 0.7	....	....
5	S.	.	4 53 12.17	— 0.01	1 8.57	— 0.06	.	67 25 58.9	+ 2.7	15 47.0	— 0.8
7	Pr.	.	5 1 26.65	— 0.07	1 8.74	+ 0.03	.	67 13 37.7	+ 1.8	15 47.2	— 0.2
10	P.	.	5 13 50.70	— 0.06	1 8.73	— 0.09	.	66 58 7.0	+ 2.1	15 45.8	— 1.5
13	S.	.	5 26 17.00	— 0.04	1 8.87	— 0.03	.	66 46 14.4	+ 1.7	15 46.3	— 0.7
17	S.	.	5 42 54.48	— 0.01	1 8.88	— 0.08	.	66 36 8.9	+ 1.5	15 45.9	— 0.8
18	P.	.	5 47 4.08	— 0.04	1 8.90	— 0.07	.	66 34 38.5	+ 0.6	15 45.3	— 1.3
21	S.	.	5 59 33.18	— 0.01	1 8.86	— 0.12	.	66 32 40.4	+ 1.9	15 47.1	+ 0.7
27	Pr.	.	6 24 29.82	+ 0.11	1 8.84	— 0.07	.	66 39 50.0	+ 0.7	15 46.0	— 0.2
28	F.	.	6 28 38.71	+ 0.08	1 8.84	— 0.04	.	66 42 27.6	+ 0.2	15 46.6	+ 0.4
July 1	Pr.	.	6 41 4.03	— 0.01	1 8.73	— 0.06	.	66 52 47.2	— 0.7	15 46.5	+ 0.3
2	F.	.	6 45 11.96	— 0.04	1 8.72	— 0.03	.	66 57 2.9	— 0.4	15 46.8	+ 0.6
3	S.	.	6 49 19.64	— 0.04	1 8.64	— 0.07	.	67 1 44.2	+ 1.4	15 45.5	— 0.7
10	F.	.	7 18 4.28	+ 0.05	1 8.36	+ 0.01	.	67 45 24.6	— 0.3	15 44.4	— 1.9
15	F.	.	7 38 24.16	+ 0.05	1 7.98	— 0.05	.	68 28 10.9	— 0.6	15 46.0	— 0.5
16	P.	.	7 42 26.60	— 0.08	1 7.82	— 0.14	.	68 37 53.8	+ 1.8	15 45.1	— 1.4

S U N—Continued.

Date.		Observer.	Limb.	Apparent. Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
1879.				h	m	s	s	m	s	s		°	′	″	″	′	″	″
July	17	Pr.	.	7	46	28.83	+ 0.09	1	7.83	− 0.06	.	68	47	55.9	+ 1.7	15	45.0	− 1.6
	18	F.	.	7	50	30.43	+ 0.14	1	7.86	+ 0.05	.	68	58	19.3	+ 1.3	15	46.2	− 0.4
	21	Pr.	.	8	2	31.70	+ 0.04	1	7.56	− 0.01	.	69	31	38.1	+ 1.5	15	46.2	− 0.7
	22	F.	.	8	6	30.98	− 0.01	1	7.42	− 0.07	.	69	43	23.8	− 0.5	15	46.7	− 0.3
Aug.	5	P.	.	9	1	17.75	+ 0.03	1	6.18	− 0.12	.	73	2	3.7	+ 0.6	15	47.2	− 1.4
	20	S.	.	9	57	53.04	− 0.03	1	4.98	− 0.12	.	77	34.2	....	....		....	....
Sept.	8	F.	.	11	7	8.46	+ 0.17	1	4.14	− 0.02	.	84	20	5.1	− 0.3	15	55.5	+ 0.1
	9	S.	.	11	10	44.27	0.00	1	4.05	− 0.09	.	84	42	44.8	+ 0.8	15	53.5	− 2.1
	11	Pr.	.	11	17	55.96	+ 0.12	1	3.99	− 0.11	.	85	28	17.8	+ 0.6	15	55.3	− 0.8
	15	Pr.	.	11	32	17.93	+ 0.01	1	4.05	0.00	.	87	0	18.9	+ 0.4	15	56.9	− 0.2
	17	S.	.	11	39	28.80	+ 0.11	1	3.98	− 0.07	.	87	46	41.7	+ 0.8	15	56.6	− 1.0
	25	S.	.	12	8	13.22	− 0.01	1	4.06	− 0.09	.	90	53	29.9	+ 1.3	15	58.5	− 1.3
	26	P.	.	12	11	49.34	+ 0.07	1	4.14	− 0.04	.	91	16	52.7	0.0	15	59.7	− 0.4
	27	Pr.	I	12	15	25.65	+ 0.17		....	....	.	91	40	17.8	+ 1.4	16	0.2	+ 0.2
Oct.	1	Pr.	.	12	29	52.78	+ 0.20	1	4.30	− 0.06	.	93	13	42.0	+ 1.5	16	0.6	− 0.9
	2	F.	.	12	33	30.30	+ 0.27	1	4.38	− 0.03	.	93	36	57.0	− 0.3	16	0.2	− 1.6
	3	S.	.	12	37	7.98	+ 0.19	1	4.38	− 0.08	.	94	0	12.6	+ 0.9	16	0.4	− 1.6
	6	F.	.	12	48	3.32	+ 0.09	1	4.67	+ 0.06	.	95	9	37.0	− 0.2	16	2.7	− 0.2
	13	Pr.	.	13	13	47.99	+ 0.19	1	5.09	0.00	.	97	49	5.7	− 1.2	16	3.6	− 1.2
	17	Pr.	.	13	28	41.96	+ 0.16	1	5.40	− 0.02	.	99	18	1.5	0.0	16	5.0	− 0.9
	20	P.	.	13	39	58.53	+ 0.05	1	5.60	− 0.09	.	100	23	18.6	− 0.1	16	6.2	− 0.5
	25	Pr.	.	13	58	59.34	+ 0.24	1	6.22	+ 0.03	.	102	8	57.5	− 0.9	16	6.8	− 1.2
	29	Pr.	.	14	14	24.32	+ 0.10	1	6.59	− 0.03	.	103	30	6.3	− 0.5	16	8.2	− 0.9
Nov.	10	Pr.	.	15	1	56.65	+ 0.31	1	7.92	− 0.10	.	107	11	31.3	− 0.9	16	10.4	− 1.6
	13	P.	.	15	14	8.70	+ 0.12	1	8.24	− 0.14	.	108	0	41.7	− 0.7	16	11.3	− 1.3
	17	Pr.	.	15	30	37.20	+ 0.39	1	8.90	+ 0.05	.	109	1	53.1	+ 1.2	16	12.9	− 0.5
	22	Pr.	,	15	51	30.70	+ 0.14	1	9.36	− 0.05	.	110	10	37.0	+ 1.7	16	14.0	− 0.5
	24	S.	.	15	59	57.56	+ 0.04	1	9.60	− 0.03	.	110	35	30.6	− 0.7	16	15.4	+ 0.6
Dec.	12	Pr.	.	17	18	0.58	+ 0.02	1	11.02	− 0.04	.	113	6	15.0	− 0.8	16	16.2	− 1.1
	13	E.	.	17	22	25.60	− 0.03	1	11.13	+ 0.02	.	113	10	27.4	− 0.3	16	16.2	− 1.2
	16	Pr.	.	17	35	42.58	− 0.07	1	11.20	− 0.01	.	113	20	14.5	− 1.8	16	18.0	+ 0.3
	18	S.	.	17	44	35.02	− 0.05	1	11.24	− 0.01	.	113	24	27.6	− 2.0	16	18.0	+ 0.1
	26	S.	.	18	20	7.26	+ 0.09	1	11.22	− 0.06	.	113	22	28.8	+ 0.1	16	18.9	+ 0.6
1880.																		
Jan.	10	E.	.	19	26	10.55	− 0.03	1	10.54	0.00	.	111	58	39.8	− 0.1	16	18.6	+ 0.4
	14	E.	.	19	43	30.03	+ 0.03	1	10.19	− 0.01	.	111	19	28.7	− 1.4	16	18.2	+ 0.2
	19	S.	.	20	4	54.31	+ 0.22	1	9.67	− 0.05	.	110	21	22.3	− 0.5	16	16.5	− 1.1
	21	E.	II	20	13	22.49	− 0.01		....	....	.	109	55	24.5	− 0.6	16	16.4	− 1.0
	24	P.	.	20	25	59.19	− 0.02	1	9.12	− 0.07	.	109	13	43.7	+ 0.5	16	17.0	− 0.1
Feb.	[illegible]	E.	.	21	3	5.43	− 0.33	1	8.12	− 0.05	.	106	50.3	....	....		....	....
	9	P.	.	21	31	12.44	− 0.03	1	7.31	− 0.06	.	104	41	54.8	+ 0.4	16	13.7	− 1.0
	14	E.	.	21	50	53.56	− 0.11	1	6.80	− 0.02	.	103	2	42.3	+ 0.2	16	13.7	− 0.1
	16	S.	.	21	58	40.84	+ 0.05	1	6.58	− 0.03	.	102	21	27.7	− 2.6	16	13.3	− 0.1
	20	S.	.	22	14	6.35	− 0.01	1	6.19	− 0.03	.	100	56	48.5	− 0.9	16	12.1	− 0.5
	24	S.	.	22	29	21.21	+ 0.11	1	5.80	− 0.05	.	99	29	25.8	− 1.5	16	10.8	− 0.9
Mar.	17	E.	.	23	50	53.80	0.00	1	4.56	− 0.01	.	90	59	13.1	− 0.5	16	4.4	− 1.6
	25	E.	.	0	20	0.06	− 0.09	1	4.46	− 0.01	.	87	50	1.8	− 2.0	16	4.4	+ 0.5
	31	S.	.	0	41	48.55	− 0.07	1	4.44	− 0.06	.	85	29	57.7	+ 0.3	16	1.2	− 1.0
Apr.	9	P.	.	1	14	40.69	− 0.01	1	4.66	− 0.10	.	82	5	32.9	− 0.7	15	57.8	− 1.8
	10	E.	.	1	18	20.92	− 0.05	1	4.78	− 0.02	.	81	43	23.9	− 1.9	15	58.6	− 0.8
	28	S.	.	2	25	27.73	− 0.06	1	5.88	− 0.01	.	75	34	21.8	+ 0.1	15	54.7	− 0.1
	30	E.	.	2	33	4.45	0.00	1	6.02	− 0.03	.	74	57	31.5	+ 0.7	15	54.6	+ 0.3
May	3	P.	.	2	44	33.58	− 0.04	1	6.12	− 0.17	.	74	4.1	....	....		....	....
	6	S.	.	[illegible]	56	8.00	+ 0.05	1	6.44	− 0.09	.	73	13	4.5	+ 1.1	15	51.1	− 1.8
	10	S.	.	3	11	41.90	+ 0.05	1	6.72	− 0.14	.	72	8	55.8	+ 0.7	15	50.0	− 1.9
	12	E.	.	3	19	32.16	− 0.06	1	6.95	− 0.08	.	71	38	37.8	+ 0.2	15	51.9	− 0.3
	14	S.	.	3	27	24.76	− 0.12	1	7.10	− 0.09	.	71	9	34.0	− 0.1	15	49.3	− 1.9
	15	P.	.	3	31	22.09	+ 0.06	1	7.15	− 0.12	.	70	55	31.7	+ 0.7	15	49.7	− 1.3
	20	E.	.	3	51	15.95	+ 0.01	1	7.58	− 0.09	.	69	50	10.3	− 0.7	15	50.2	+ 0.1

S U N—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semidiameter.	Corr'n to Am. Eph.
1880.			h m s	s	m s	s		° ′ ″	″	′ ″	″
May 26	S.	.	4 15 25.92	+ 0.04	1 7.99	− 0.10	.	68 43 9.0	+ 0.1	15 48.1	− 1.0
27	P.	.	4 19 29.29	− 0.03	1 8.08	− 0.08	.	68 33.2	....	....	....
31	P.	.	4 35 47.49	− 0.11	1 8.30	− 0.10	.	67 57 21.2	+ 0.8	15 47.1	− 1.2
June 3	S.	.	4 48 5.87	+ 0.03	1 8.48	− 0.08	.	67 34 26.1	− 0.1	15 47.4	− 0.5
21	E.	.	6 2 42.50	+ 0.01	1 8.91	− 0.07	N.	66 32 47.2	− 0.6	....	....
29	E.	.	6 35 55.02	− 0.02	1 8.74	− 0.08	N.	66 48 7.9	− 1.3	....	....
July 7	E.	.	7 8 54.10	− 0.04	1 8.59	+ 0.11	.	67 29.4	....	....	....
13	R.	.	7 33 22.76	0.02	1 7.97	− 0.14	.	68 16 49.4	+ 1.8	15 45.4	− 1.0
26	E.	I	8 25 20.34	− 0.02	....	....	.	70 44 4.6	+ 0.8	15 46.9	− 0.5
27	R.	.	8 29 16.21	+ 0.04	1 6.87	− 0.13	.	70 57 44.6	− 0.1	15 47.0	− 0.5
29	R.	.	8 37 6.09	+ 0.04	1 6.66	− 0.17	.	71 26 4.8	+ 1.9	15 47.3	− 0.4
Aug. 7	R.	.	9 11 51.25	0.04	1 5.95	− 0.10	.	73 48 0.0	− 0.8	15 47.9	− 1.0
16	W.	.	9 45 49.09	0.06	1 5.24	− 0.09	.	76 31 2.2	+ 0.6	15 49.3	− 1.2
24	W.	.	10 15 24.69	− 0.12	1 4.66	− 0.13	.	79 10.5	....	....	....
Sept. 4	W.	.	10 55 26.47	− 0.08	1 4.12	− 0.13	.	83 7 24.1	+ 1.2	15 53.0	− 1.6
11	S.	.	11 20 39.28	+ 0.02	1 4.02	− 0.07	.	85 45 39.1	0.0	15 54.8	− 1.5
13	W.	.	11 27 50.09	0.09	1 3.88	− 0.19	.	86 31.7	....	....	....
15	S.	.	11 35 0.75	− 0.03	1 4.00	− 0.06	.	87 17 48.2	− 0.4	15 56.7	− 0.7
17	W.	.	11 42 11.27	+ 0.02	1 3.99	− 0.07	.	88 4 13.0	− 0.1	15 56.5	− 1.4
20	R.	.	11 52 57.14	− 0.01	1 3.95	− 0.13	.	89 14 6.5	− 1.2	16 0.1	+ 1.4
21	W.	.	11 56 32.56	− 0.02	1 4.00	− 0.09	.	89 37 0.7	+ 1.4	15 59.5	+ 0.5
25	W.	.	12 10 55.66	− 0.01	1 4.02	− 0.16	.	91 11 5.1	+ 0.6	16 0.6	+ 0.6
29	W.	I	12 25 21.98	+ 0.02	....	....	N.	92 44 38.5	+ 0.9	....	....
Oct. 2	R.	.	12 36 14.58	+ 0.01	1 4.31	− 0.13	.	93 54 31.4	− 0.7	16 0.6	− 1.3
6	R.	.	12 50 49.42	− 0.03	1 4.57	− 0.09	.	95 27 4.9	0.0	16 2.6	− 0.5
7	W.	.	12 54 29.10	− 0.03	1 4.56	− 0.16	.	95 50.3	....	....	....
11	W.	.	13 9 12.25	+ 0.07	1 4.92	− 0.08	.	97 21 6.7	− 0.7	16 4.0	− 0.5
15	W.	.	13 24 3.05	+ 0.06	1 5.22	− 0.10	.	98 50 31.4	− 2.2	16 6.0	+ 0.4
18	R.	.	13 35 17.07	+ 0.10	1 5.50	− 0.08	.	99 56 18.7	− 1.4	16 5.2	− 1.2
19	W.	.	13 39 2.92	+ 0.06	1 5.62	− 0.05	.	100 17 56.7	− 1.9	16 5.8	− 0.9
23	W.	.	13 54 13.11	+ 0.06	1 5.97	− 0.09	.	101 43 0.0	+ 1.1	16 6.8	− 1.0
25	S.	.	14 1 52.48	− 0.07	1 6.20	− 0.07	.	102 24 25.3	− 1.8	16 7.1	− 1.1
27	W.	.	14 9 34.72	− 0.05	1 6.42	− 0.06	.	103 5 10.4	+ 0.7	16 8.4	− 0.4
Nov. 8	W.	.	14 56 56.21	+ 0.16	1 7.79	− 0.09	.	106 50 21.4	+ 1.4	16 11.0	− 0.7
12	W.	II	15 13 9.42	− 0.06	....	....	.	107 56 48.0	+ 0.9	16 12.0	− 0.6
19	R.	.	15 42 5.13	+ 0.07	1 9.16	− 0.01	.	109 40.8	....	....	....
22	S.	.	15 54 41.39	+ 0.07	1 9.41	− 0.09	.	110 20 7.0	− 0.7	16 14.0	− 0.6
Dec. 2	W.	.	16 37 32.00	+ 0.12	1 10.33	− 0.13	.	112 6 4.6	+ 0.6	16 14.6	− 1.6
4	S.	.	16 46 13.91	− 0.08	1 10.50	− 0.11	.	112 22 15.7	+ 1.1	16 14.7	− 1.8
17	R.	.	17 43 29.85	− 0.08	1 11.15	− 0.10	.	113 23 59.4	− 1.3	16 17.3	− 0.6
22	W.	.	18 5 42.13	− 0.05	1 11.18	− 0.12	.	113 26 53.6	+ 0.7	16 17.3	− 0.9
1881.		.									
Jan. 18	R.	.	20 3 51.22	+ 0.05	1 9.78	+ 0.03	.	110 24 25.9	− 0.6	16 17.4	− 0.2
24	W.	.	20 29 8.33	+ 0.14	1 8.95	− 0.15	.	109 2 41.3	− 0.3	16 16.0	− 1.0
27	R.	.	20 41 36.42	+ 0.16	1 8.71	− 0.06	.	108 16 59.7	− 1.2	16 16.6	0.0
28	W.	.	20 45 44.04	0.03	1 8.56	− 0.09	.	108 1 5.9	− 1.4	16 15.5	− 1.0
Feb. 4	R.	.	21 14 15.12	− 0.02	1 7.81	− 0.04	.	106 1 14.6	+ 1.4	16 15.1	− 0.3
5	W.	.	21 18 16.45	+ 0.20	1 7.68	− 0.05	.	105 42 57.5	+ 1.0	16 14.4	− 0.9
12	R.	.	21 46 1.34	+ 0.12	1 6.80	0.15	.	103 27 56.4	+ 1.2	16 12.3	− 1.7
14	E.	.	21 53 49.98	+ 0.06	1 6.76	+ 0.02	.	102 47 15.3	− 0.9	16 13.2	− 0.4
16	R.	.	22 1 35.74	+ 0.06	1 6.43	− 0.11	.	102 5 47.3	− 0.3	16 12.4	− 0.8
17	W.	.	22 5 27.71	0.21	1 6.30	0.14	.	101 44 47.5	+ 1.7	16 12.6	− 0.4
24	R.	.	22 32 12.19	+ 0.07	1 5.68	0.10	.	99 12 43.4	+ 1.2	16 10.4	− 1.0
25	W.	.	22 35 58.99	+ 0.05	1 5.59	− 0.11	.	98 50 20.9	− 1.3	16 9.8	− 1.4
26	E.	.	22 39 45.32	+ 0.11	1 5.71	+ 0.10	.	98 27 56.0	+ 1.6	16 8.9	− 2.0
Mar. 7	S.	.	23 13 18.83	+ 0.03	1 4.96	− 0.04	.	95 0 58.2	0.0	16 7.6	− 1.1
8	R.	.	23 17 0.57	+ 0.27	1 4.90	− 0.04	.	94 37 35.6	+ 1.3	16 7.8	− 0.7
11	S.	.	23 28 2.64	+ 0.06	1 4.72	− 0.07	.	93 27 4.9	+ 1.1	16 6.8	− 0.9

S U N—Continued.

Date.		Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
1881.				h	m	s	s	m	s	s		°	′	″	″	′	″	″
Mar.	15	E.	.	23	42	41.23	− 0.09	1	4.64	0.00	.	91	52	32.6	− 0.7	16	4.2	− 2.4
	24	R.	.	0	15	27.71	− 0.08	1	4.36	− 0.11	.	88	19	28.5	+ 0.4	16	2.0	− 2.2
	25	W.	.	0	19	5.83	− 0.07	1	4.36	− 0.10	.	87	55	55.2	+ 1.2	16	2.0	− 1.9
	28	R.	.	0	30	0.26	− 0.05	1	4.42	− 0.05	.	86	45	29.0	− 0.1	16	2.4	− 0.6
Apr.	11	E.	.	1	21	6.92	− 0.11	1	4.84	+ 0.01	.	81	26	53.1	− 1.1	15	58.8	− 0.4
	15	E.	II	1	35	51.47	0.00		....	....	.	80	0	21.0	− 0.4	15	56.7	− 1.5
	23	E.	.	2	5	39.02	− 0.10	1	5.47	− 0.05	.	77	15	28.5	+ 0.3	15	54.8	− 1.6
	26	W.	.	2	16	57.10	− 0.08	1	5.65	− 0.08	.	76	16	56.3	+ 1.5	15	53.0	2.3
	28	S.	.	2	24	31.81	+ 0.05	1	5.82	− 0.06	.	75	39	0.8	+ 1.3	15	52.6	− 2.0
	30	W.	.	2	32	8.31	− 0.11	1	5.95	− 0.08	.	75	2	2.0	+ 1.1	15	54.0	− 0.3
May	9	E.	.	3	6	49.98	+ 0.01	1	6.67	− 0.09	.	72	28	29.0	+ 1.2	15	51.0	− 1.3
	10	S.	.	3	10	44.02	+ 0.01	1	6.74	− 0.10	.	72	12	47.9	− 0.2	15	51.5	− 0.6
	12	W.	.	3	18	33.79	− 0.01	1	6.91	− 0.10	.	71	42	21.3	1.0	15	50.1	− 1.6
	25	E.	II	4	10	22.93	− 0.06		....	....	.	68	56.1	....	....		....	....
	27	R.	.	4	18	29.42	− 0.04	1	8.06	− 0.09	.	68	35	45.2	+ 2.6	15	48.5	− 0.5
	28	W.	.	4	22	33.32	− 0.08	1	8.10	− 0.11	.	68	26	6.2	+ 1.5	15	47.8	− 1.0
	31	R.	.	4	34	47.82	− 0.04	1	8.24	− 0.15	.	67	59	28.3	− 2.1	15	46.4	− 2.0
June	11	S.	.	5	20	7.56	+ 0.02	1	8.80	− 0.06	.	66	51	47.4	+ 1.6	15	46.8	− 0.4
	16	R.	.	5	40	52.85	− 0.11	1	8.90	− 0.06	.	66	37	8.4	+ 0.7	15	45.8	− 0.9
	18	E.	.	5	49	11.94	− 0.03	1	8.92	− 0.06	.	66	34	10.8	+ 1.5	15	45.6	− 1.0
	20	R.	.	5	57	31.15	− 0.05	1	8.83	− 0.15	.	66	32	51.0	+ 0.9	15	46.0	0.5
	21	W.	.	6	1	40.94	+ 0.10	1	8.86	− 0.12	.	66	32	48.2	+ 0.4	15	44.5	− 0.9
	24	R.	.	6	14	9.41	− 0.11	1	8.89	− 0.06	.	66	35	11.4	+ 1.6	15	45.4	− 0.9
	30	E.	.	6	39	3.41	− 0.06	1	8.86	− 0.06	.	66	51	1.6	− 1.1	15	44.8	− 1.3
July	2	R.	.	6	47	19.62	− 0.02	1	8.66	− 0.06	.	66	59	34.1	+ 1.6	15	45.6	− 0.5
	5	S.	.	6	59	41.53	− 0.05	1	8.52	− 0.08	.	67	15	21.6	+ 1.2	15	45.2	− 1.0
	7	W.	.	7	7	54.35	− 0.06	1	8.34	− 0.16	.	67	27	52.4	− 1.6	15	45.4	− 0.8
	8	E.	.	7	12	0.25	0.01	1	8.36	− 0.10	.	67	34	42.4	+ 1.2	15	45.1	− 1.2
	11	W.	.	7	24	15.12	− 0.05	1	8.20	− 0.06	.	67	57	32.8	+ 2.0	15	45.6	− 0.8
	14	R.	.	7	36	26.00	− 0.05	1	7.96	− 0.10	.	68	23	46.3	+ 1.7	15	46.3	− 0.2
	16	E.	.	7	44	30.86	− 0.04	1	7.90	− 0.02	.	68	43	6.7	+ 1.6	15	45.3	− 1.3
	18	R.	I	7	52	33.68	− 0.07		....	....	.	69	3	53.4	+ 1.0	15	46.7	0.0
	19	W.	.	7	56	34.36	− 0.04	1	7.58	− 0.11	.	69	14	48.6	+ 0.5	15	46.4	− 0.4
	23	W.	.	8	12	31.59	+ 0.04	1	7.22	− 0.14	.	70	2	0.8	+ 1.9	15	45.5	− 1.6
	26	R.	.	8	24	23.40	− 0.02	1	7.06	− 0.06	.	70	40	54.5	+ 1.2	15	46.8	− 0.6
	28	E.	.	8	32	14.98	− 0.05	1	6.94	− 0.01	.	71	8	26.6	+ 0.7	15	45.5	− 2.1
Aug.	3	R.	.	8	55	35.03	+ 0.02	1	6.34	− 0.08	.	72	38	21.8	+ 1.6	15	47.3	− 1.1
	8	W.	.	9	14	44.72	+ 0.02	1	5.83	− 0.17	.	74	1	2.4	+ 1.6	15	49.0	− 0.1
	11	R.	.	9	26	7.25	− 0.15	1	5.64	− 0.11	.	74	53	44.1	− 0.3	15	48.4	− 1.2
	15	R.	.	9	41	9.92	− 0.04	1	5.27	− 0.16	.	76	7	24.7	0.0	15	49.6	− 0.7
	20	W.	I	9	59	46.83	+ 0.04		....	....	.	77	44	29.3	+ 1.9	15	50.6	− 0.6
	23	R.	.	10	10	51.31	− 0.03	1	4.80	− 0.08	.	78	45	5.9	+ 1.6	15	52.1	− 0.3
	27	R.	.	10	25	31.52	− 0.04	1	4.54	− 0.10	.	80	8	22.5	+ 0.6	15	51.3	− 1.4
	31	R.	II	10	40	5.72	0.00		....	....	.	81	34	10.6	+ 1.6	15	52.7	− 0.9
Sept.	24	R.	.	12	6	28.46	+ 0.10	1	4.01	− 0.13	.	90	42	6.7	− 0.8	15	58.3	− 1.4
Oct.	10	R.	.	13	4	37.26	+ 0.02	1	4.82	− 0.09	.	96	52	58.1	− 1.2	16	2.8	− 1.4
	11	W.	.	13	8	18.55	+ 0.05	1	4.89	− 0.09	.	97	15	39.2	+ 1.0	16	3.8	0.6
	14	R.	.	13	19.4	....	....		....	....	.	98	22	58.4	− 0.2	16	5.1	− 0.6
	17	S.	.	13	30	37.54	+ 0.08	1	5.38	− 0.09	.	99	29	14.8	− 1.4	16	4.8	1.2
	18	R.	.	13	34	22.83	+ 0.12	1	5.40	− 0.16	.	99	51	5.7	− 0.4	16	5.2	− 1.1
	19	W.	.	13	38	8.52	− 0.08	1	5.61	− 0.04	.	100	12	47.5	0.0	16	5.5	− 1.1
	20	E.	.	13	41	55.04	− 0.10	1	5.78	+ 0.04	.	100	34	20.2	+ 0.2	16	7.1	0.3
	21	S.	.	13	45	42.28	− 0.06	1	5.75	− 0.09	.	100	55	42.6	− 0.5	16	5.7	1.4
	22	R.	.	13	49	30.21	− 0.01	1	5.85	− 0.09	.	101	16	55.4	1.3	16	6.0	1.4
	25	S.	.	14	0	58.05	+ 0.01	1	6.17	− 0.08	.	102	19	32.7	− 0.9	16	7.4	− 0.8
Nov.	4	W.	.	14	39	59.06	+ 0.08	1	7.28	− 0.09	.	105	34	53.7	2.2	16	9.9	− 0.8
	14	S.	.	15	20	21.74	− 0.14	1	8.43	− 0.13	.	108	24	24.6	− 0.2	16	11.5	1.5
	15	R.	.	15	24	28.66	+ 0.04	1	8.59	− 0.09	.	108	39	41.8	− 0.1	16	12.2	− 1.0
	16	W.	.	15	28	36.53	+ 0.03	1	8.68	− 0.11	.	108	54	36.1	− 0.2	16	11.4	− 2.0

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
			h	m	s	s	m	s	s		°	′	″	″	′	″	″
1881.																	
Nov. 17	E.	.	15	32	45.28	+ 0.04	1	8.86	− 0.05	.	109	9	17.2	+ 0.8	16	13.4	− 0.2
25	E.	.	16	6	24.33	− 0.26	1	9.86	+ 0.08	.	110	53	19.7	− 0.3	16	14.9	− 0.2
28	W.	.	16	19	14.51	+ 0.18	1	9.96	− 0.12	.	111	26	4.5	+ 1.2	16	15.1	− 0.5
Dec. 2	W.	.	16	36	30.01	− 0.04	1	10.36	− 0.08	.	112	3	56.4	− 1.2	16	14.9	− 1.3
9	R.	.	17	7	4.39	− 0.06	1	10.90	− 0.03	.	112	53	44.0	− 1.1	16	16.5	− 0.6
16	S.	.	17	37	59.95	+ 0.13	1	11.22	0.00	.	113	21	26.5	+ 1.0	16	17.0	− 0.7
17	R.	.	17	42	25.88	− 0.14	1	11.10	− 0.14	.	113	23	29.8	− 1.3	16	17.1	− 0.7
19	E.	.	17	51	18.84	− 0.08	1	11.24	− 0.04	.	113	26	18.9	+ 1.0	16	18.5	+ 0.6
24	S.	.	18	13	32.21	0.10	1	11.31	+ 0.02	.	113	25	0.3	+ 0.2	16	19.1	+ 0.9
31	E.	I	18	44	34.18	− 0.12	....		....	N.	113	3	26.7	− 1.4	....		....
1882.																	
Jan. 23	E.	.	20	23	57.36	− 0.01	1	9.24	0.00	.	109	20.7	....	....	....		....
27	E.	.	20	40	36.78	− 0.16	1	8.70	− 0.10	.	108	20	40.8	− 0.7	16	15.4	− 1.2
30	W.	.	20	52	58.01	− 0.15	1	8.36	− 0.09	.	107	32	18.5	− 1.7	16	15.3	− 0.9
Feb. 1	S.	.	21	1	7.77	+ 0.13	1	8.12	− 0.10	.	106	58	30.9	− 1.0	16	14.0	− 2.0
2	R.	.	21	5	11.31	+ 0.03	1	8.08	− 0.03	.	106	41	11.1	+ 0.3	16	16.2	+ 0.4
6	R.	.	21	21	17.55	0.10	1	7.57	− 0.08	.	105	28	54.8	− 0.2	16	14.4	− 0.7
7	W.	.	21	25	17.20	− 0.03	1	7.44	− 0.09	.	105	10	11.5	− 0.6	16	14.8	− 0.2
10	R.	.	21	37	11.23	− 0.07	1	7.10	− 0.10	.	104	12	6.4	− 1.9	16	13.9	− 0.5
11	W.	.	21	41	7.51	− 0.29	1	6.98	− 0.11	.	103	52	45.4	+ 0.6	16	13.0	1.2
15	W.	.	21	56	46.47	+ 0.06	1	6.60	− 0.04	.	102	31	35.5	− 1.4	16	13.2	− 0.2
17	S.	.	22	4	31.53	+ 0.15	1	6.33	− 0.12	.	101	49	50.2	+ 1.2	16	10.8	− 2.2
18	W.	.	22	8	22.81	− 0.01	1	6.21	− 0.14	.	101	28	39.6	+ 1.5	16	11.2	− 1.6
25	S.	.	22	35	4.48	+ 0.15	1	5.64	− 0.07	.	98	55	44.5	+ 0.1	16	9.6	− 1.6
27	W.	.	22	42	36.44	+ 0.10	1	5.48	− 0.07	.	98	10	48.3	+ 1.4	16	10.0	− 0.8
Mar. 2	R.	.	22	53	50.28	+ 0.02	1	5.24	− 0.10	.	97	2	29.5	+ 0.9	16	8.6	− 1.4
3	W.	.	22	57	33.89	+ 0.01	1	5.22	− 0.05	N.	96	39	30.5	+ 0.4	....		...
23	W.	.	0	10	56.69	− 0.02	1	4.44	− 0.04	.	88	48	48.2	+ 0.1	16	2.6	− 1.9
25	W.	.	0	18	13.02	+ 0.04	1	4.38	− 0.08	.	88	1	37.6	+ 0.2	16	3.0	− 0.9
30	R.	.	0	36.4	....	....	....		....	.	86	4	34.2	+ 0.4	16	0.8	− 1.8
Apr. 1	E.	.	0	43.7	....	....	....		....	.	85	18	11.6	− 1.2	16	1.0	− 1.0
12	W.	.	1	23	52.65	− 0.04	1	4.85	− 0.02	.	81	10	27.3	− 0.7	15	59.0	0.0
13	R.	.	1	27	33.52	− 0.14	1	4.87	− 0.04	.	80	48	41.2	− 0.9	15	58.5	− 0.2
17	E.	.	1	42	21.08	− 0.07	1	5.10	− 0.02	..	79	23	12.9	− 0.2	15	57.2	− 0.4
18	W.	.	1	46	3.91	− 0.06	1	5.06	− 0.12	.	79	2	17.7	+ 1.5	15	57.2	− 0.2
20	S.	.	1	53	30.77	− 0.05	1	5.26	− 0.04	.	78	20.9	....	...	....		...
25	E.	.	2	12	15.47	− 0.06	1	5.58	− 0.05	.	76	40	58.7	− 1.2	15	55.1	− 0.5
27	R.	.	2	19	48.48	− 0.14	1	5.65	− 0.12	.	76	2	32.7	+ 0.8	15	54.8	− 0.3
28	W.	.	2	23	35.87	− 0.02	1	5.76	− 0.09	.	75	43	38.5	+ 0.1	15	54.1	− 0.8
May 1	R.	.	2	35	0.78	− 0.03	1	5.99	− 0.10	.	74	48	22.5	− 1.1	15	53.0	− 1.2
3	E.	.	2	42	40.00	− 0.08	1	6.20	− 0.05	.	74	12	48.3	+ 0.1	15	52.6	− 1.1
9	R.	.	3	5	51.39	− 0,15	1	6.58	− 0.16	.	72	32	28.2	+ 1.7	15	51.0	− 1.4
17	R.	.	3	37	19.87	− 0.01	1	7.30	− 0.09	.	70	35	5.1	+ 0.9	15	49.6	− 1.1
23	E.	.	4	1	19.77	− 0.06	1	7.80	− 0.05	.	69	20	42.4	− 0.6	15	48.6	− 1.1
24	S.	.	4	5	21.59	− 0.03	1	7.90	− 0.02	.	69	9	33.0	+ 0.5	15	49.1	− 0.4
26	W.	.	4	13	26.70	+ 0.04	1	7.94	− 0.12	.	68	48	16.2	− 1.1	15	48.6	− 0.6
29	R.	.	4	25	37.64	− 0.05	1	8.16	− 0.10	.	68	19	6.9	+ 0.3	15	48.0	− 0.8
30	W.	.	4	29	42.30	+ 0.05	1	8.16	− 0.16	N.	68	10	8.5	+ 0.2	....		...
31	E.	.	4	33	47.21	− 0.03	1	8.31	− 0.07	.	68	1	33.2	+ 0.5	15	46.8	− 1.7
June 2	R.	.	4	41	58.47	+ 0.04	1	8.41	− 0.08	.	67	45	30.9	+ 0.5	15	47.4	− 0.8
5	S.	.	4	54	18.04	0.01	1	8.55	− 0.09	S.	67	24	24.3	+ 2.7	....		...
6	R.	.	4	58	25.22	− 0.08	1	8.60	− 0.08	.	67	18	5.2	− 0.8	15	47.0	− 0.7
8	E.	.	5	6	40.64	0.11	1	8.72	− 0.04	.	67	6	46.1	0.2	15	45.8	− 1.7
9	S.	I	5	10	48.95	+ 0.04	....		....	S.	67	1	42.1	− 0.5	....		...
14	R.	.	5	31	33.25	+ 0.01	1	8.74	− 0.18	.	66	42	30.1	+ 0.8	15	45.6	− 1.3
15	W.	.	5	35	42.73	− 0.09	1	8.86	0.07	.	66	39	52.9	+ 0.5	15	45.0	− 1.8
17	S.	.	5	44	1.88	0.15	1	8.80	0.16	.	66	35	53.2	+ 0.6	15	45.4	1.3
20	E.	.	5	56	30.74	− 0.02	1	8.86	0.12	.	66	32	59.4	+ 0.7	15	45.8	− 0.7
21	S.	.	6	0	40.41	0.02	1	8.87	0.11	.	66	32	50.6	+ 0.4	15	45.0	− 1.4

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
1882.			h	m	s	s	m	s	s		°	′	″	″	′	″	″
June 22	R.	I	6	4	50.05	+ 0.01		....	....	.	66	33	5.3	— 1.4	15	45.1	— 1.3
24	E.	.	6	13	8.98	— 0.02	1	8.89	— 0.06	.	66	34	53.6	— 0.1	15	45.2	— 1.1
26	R.	.	6	21	27.42	— 0.06	1	8.79	— 0.13	.	66	38	18.7	— 0.9	15	45.6	— 0.7
27	W.	.	6	25	36.49	+ 0.01	1	8.77	— 0.13	.	66	40	38.8	— 0.7	15	45.5	— 0.8
July 3	S.	I	6	50	26.12	+ 0.11		....	....	S.	67	3	14.6	+ 2.7		....	....
7	S.	I	7	6	53.55	+ 0.10		....	....	N.	67	26	15.1	— 0.1		....	....
10	E.	.	7	19	10.20	— 0.09	1	8.33	— 0.01	.	67	47	39.5	— 0.2	15	45.6	— 0.7
12	R.	.	7	27	19.46	0.00	1	8.13	— 0.09	.	68	3	51.5	+ 0.1	15	45.2	— 1.2
13	W.	.	7	31	23.63	+ 0.25	1	7.98	— 0.17	.	68	12	30.3	0.8	15	46.0	— 0.4
15	S.	.	7	39	29.93	+ 0.13	1	7.88	— 0.13	.	68	30	57.8	+ 0.2	15	44.8	— 1.7
24	R.	.	8	15	32.05	+ 0.02	1	7.16	— 0.14	.	70	11	33.9	— 1.1	15	46.2	— 1.0
25	W.	.	8	19	29.33	— 0.03	1	7.09	— 0.13	.	70	24	27.5	— 0.3	15	46.4	— 0.9
28	R.	I	8	31	17.60	— 0.08		....	....	N.	71	5	3.8	+ 1.8		....	....
Aug. 7	E.	.	9	9	59.77	+ 0.17	1	6.07	— 0.03	.	73	39	49.0	— 1.2	15	47.9	— 1.0
11	E.	.	9	25	12.10	— 0.03	1	5.76	— 0.01	.	74	49	24.5	— 1.4	15	48.9	— 0.7
21	W.	.	10	2	35.45	— 0.08	1	4.98	— 0.03	N.	77	59	41.7	+ 1.2		....	....
24	W.	I	10	13	38.60	— 0.21		....	....	N.	79	0	42.5	+ 2.0		....	....
25	W.	.	10	17	19.04	+ 0.02	1	4.68	— 0.08	N.	79	21	22.7	— 2.3		....	....
Sept. 15	W.	.	11	33	16.72	— 0.06	1	3.98	— 0.08	.	87	6	38.7	— 1.1	15	55.8	— 1.4
19	S.	.	11	47	38.28	+ 0.03	1	3.97	— 0.09	.	88	39	35.3	— 0.7	15	56.4	— 1.9
20	W.	.	11	51	13.70	+ 0.04	1	3.92	— 0.15	.	89	2	55.6	— 0.1	15	57.0	— 1.6
21	S.	.	11	54	49.10	— 0.02	1	3.96	— 0.12	.	89	26	15.7	— 1.0	15	57.0	— 1.8
29	W.	.	12	23	37.31	— 0.08	1	4.14	— 0.16	.	92	33	20.4	— 1.0	15	59.6	— 1.4
Oct. 3	S.	.	12	38	7.11	+ 0.02	1	4.43	— 0.05	.	94	6	29.5	— 0.8	16	0.3	— 1.8
9	W.	.	13	0	2.71	+ 0.04	1	4.72	— 0.10	.	96	24	41.6	+ 0.2	16	2.9	— 0.9
14	W.	.	13	18	31.61	— 0.03	1	5.08	— 0.11	.	98	17	34.3	— 0.5	16	4.2	— 0.9
Nov. 3	W.	.	14	35	2.86	+ 0.22	1	7.12	— 0.09	.	105	11	45.4	+ 0.4	16	10.7	+ 0.3
9	W.	.	14	59	0.46	+ 0.08	1	7.76	— 0.17	.	106	59	2.4	— 1.9	16	11.4	— 0.4
15	W.	.	15	23	28.81	+ 0.02	1	8.52	— 0.13	.	108	35	58.7	+ 0.2	16	11.4	— 0.7
24	W.	.	16	1	6.66	— 0.04	1	9.60	— 0.06	.	110	38	41.0	+ 1.6	16	14.4	— 0.5
27	W.	.	16	13	53.24	— 0.06	1	9.88	— 0.08	.	111	12	50.0	— 0.8	16	16.0	+ 0.6
30	W.	.	16	26	46.45	+ 0.04	1	10.15	— 0.10	S.	111	43	26.5	+ 0.1		....	....
Dec. 4	W.	.	16	44	6.72	+ 0.14	1	10.48	— 0.10	.	112	18	23.2	— 0.5	16	15.4	— 1.0
6	W.	.	16	52	50.37	+ 0.08	1	10.58	— 0.14	.	112	33.3	....	....		....	....
12	W.	.	17	19	12.99	— 0.07	1	11.06	— 0.01	.	113	7	15.8	— 0.8	16	16.2	— 1.2
16	W.	.	17	36	55.17	— 0.06	1	11.10	— 0.12	.	113	20	45.5	— 1.4	16	17.4	— 0.3
1883.																	
Feb. 10	R.	.	21	36	14.40	+ 0.06	1	7.12	— 0.10	.	104	17	9.8	+ 1.7	16	13.7	— 0.8
20	E.	.	22	15	7.84	— 0.02	1	6.16	— 0.02	.	100	51	0.8	+ 2.2	16	11.0	— 1.5
23	W.	.	22	26	34.18	— 0.07	1	5.80	— 0.11	.	99	45	35.7	+ 2.1	16	10.3	— 1.5
26	R.	.	22	37	55.18	+ 0.01	1	5.68	+ 0.02	.	98	38	49.6	+ 0.9	16	9.4	— 1.7
27	W.	.	22	41	40.98	— 0.04	1	5.51	— 0.07	.	98	16	17.2	— 0.6	16	9.2	— 1.7
28	E.	.	22	45	26.30	— 0.06	1	5.46	— 0.04	.	97	53	41.1	+ 1.7	16	9.5	— 1.1
Mar. 3	W.	.	22	56	39.48	+ 0.09	1	5.19	— 0.08	.	96	45	6.2	+ 1.6	16	8.4	— 1.4
5	S.	.	23	4	5.76	— 0.02	1	5.12	— 0.02	.	95	58	53.4	+ 1.4	16	8.2	— 1.1
9	S.	.	23	18	53.69	+ 0.04	1	4.82	— 0.09	.	94	25	33.6	+ 2.5	16	6.5	— 1.8
12	S.	.	23	29	55.76	— 0.01	1	4.64	— 0.13	.	93	14	56.2	+ 1.8	16	5.2	— 2.3
27	W.	.	0	24	36.03	— 0.01	1	4.44	— 0.02	.	87	20	22.0	+ 2.8	16	2.1	— 1.4
Apr. 3	R.	II	0	50	3.97	— 0.02		....	....	.	84	37	42.6	+ 0.9	16	0.0	— 1.5
4	W.	.	0	53	42.66	— 0.12	1	4.46	— 0.11	.	84	14	50.8	+ 2.4	15	59.7	— 1.5
18	S.	.	1	45	11.02	+ 0.04	1	5.06	— 0.11	.	79	7	17.2	+ 1.0	15	56.0	— 1.5
27	R.	.	2	18	53.74	+ 0.04	1	5.68	— 0.08	.	76	7	9.3	+ 0.6	15	54.0	— 1.2
May 2	W.	.	2	37.9	....	....		....	....	.	74	34	48.0	+ 1.8	15	53.4	— 0.6
3	E.	.	2	41	44.84	— 0.16	1	6.22	— 0.01	.	74	17	2.6	+ 0.5	15	52.6	— 1.1
4	S.	.	2	45	35.50	0.00	1	6.21	— 0.10	.	73	59	34.2	+ 0.8	15	51.7	— 1.8
7	E.	.	2	57	10.33	— 0.10	1	6.49	— 0.06	.	73	8	44.5	+ 0.6	15	51.4	— 1.4
9	R.	.	3	4	56.61	+ 0.06	1	6.61	— 0.10	.	72	36	17.7	+ 3.1	15	51.2	— 1.2
10	W.	.	3	8	50.48	+ 0.02	1	6.71	— 0.08	.	72	20	27.2	+ 1.3	15	50.3	— 1.9
12	S.	II	3	16	40.06	+ 0.10		....	....	N.	71	49	42.8	+ 0.7		....	....

SUN—Continued.

Date.		Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semidiameter.		Corr'n to Am. Eph.
1883.				h	m	s	s	m	s	s		°	′	″	″	′	″	″
May	16	S.	.	3	32	25.76	+ 0.10	1	7.21	− 0.08	.	70	51	56.7	+ 0.4	15	49.6	− 1.4
	19	E.	.	3	44	20.65	− 0.05	1	7.46	− 0.07	.	70	12	1.9	+ 1.9	15	50.4	0.0
	24	S.	.	4	4	23.33	+ 0.07	1	7.79	− 0.12	.	69	12	13.6	+ 0.1	15	47.8	− 1.8
	28	S.	.	4	20.6	....	....		....	....	.	68	30	49.9	+ 2.1	15	47.1	− 1.8
	29	R.	.	4	24	38.72	− 0.07	1	8.12	− 0.12	.	68	21	23.2	+ 1.6	15	46.8	− 2.0
June	2	R.	.	4	40	59.46	− 0.20	1	8.36	− 0.11	S.	67	47	24.4	+ 1.2		....	....
	5	S.	.	4	53	19.54	0.00	1	8.46	− 0.16	.	67	25	58.8	+ 1.2	15	47.2	− 0.6
	14	R.	II	5	30	33.93	− 0.43		....	....	S.	66	43	12.3	− 0.5		....	....
	15	W.	.	5	34	43.62	+ 0.04	1	8.84	− 0.10	.	66	40	32.6	+ 2.7	15	46.4	− 0.5
	19	W.	.	5	51	21.32	+ 0.08	1	8.90	− 0.08	.	66	33	46.9	+ 1.7	15	45.6	− 1.0
	22	R.	.	6	3	49.70	− 0.08	1	8.86	− 0.12	.	66	33	3.0	+ 1.1	15	44.6	− 1.8
	23	W.	.	6	7	59.26	+ 0.03	1	8.84	− 0.13	.	66	33	37.8	+ 0.6	15	44.8	− 1.6
July	2	E.	.	6	45	19.02	− 0.05	1	8.69	− 0.05	.	66	57	6.2	+ 1.7	15	44.9	− 1.2
	3	S.	.	6	49	27.00	+ 0.07	1	8.58	− 0.12	.	67	2	6.3	+ 1.2	15	46.0	− 0.1
	6	E.	.	7	1	48.81	+ 0.15	1	8.52	− 0.05	.	67	18	31.4	+ 0.8	15	45.3	− 0.9
	7	S.	.	7	5	55.43	+ 0.22	1	8.42	− 0.10	.	67	24	49.2	+ 2.7	15	44.8	− 1.4
	12	R.	.	7	26	21.60	− 0.13	1	8.14	− 0.09	.	68	1	53.1	− 0.1	15	45.0	− 1.4
	16	R.	.	7	42	34.35	− 0.09	1	7.87	− 0.08	.	68	38	26.0	+ 2.5	15	45.0	− 0.6
	18	E.	.	7	50	37.66	− 0.03	1	7.77	− 0.04	.	68	58	51.1	+ 1.7	15	45.7	− 1.0
	20	R.	.	7	58	38.59	− 0.17	1	7.59	− 0.06	.	69	20	42.1	+ 1.3	15	45.6	− 1.3
Aug.	1	R.	.	8	45	57.52	− 0.12	1	6.46	− 0.18	.	71	59	52.7	0.0	15	45.8	− 2.2
	7	E.	.	9	9	5.10	− 0.04	1	6.20	− 0.09	.	73	35	54.2	+ 2.1	15	47.8	− 1.1
	8	R.	.	9	12	54.09	− 0.19	1	5.94	− 0.09	.	73	52	50.3	+ 1.0	15	47.4	− 1.6
	11	R.	.	9	24	18.06	− 0.05	1	5.65	− 0.13	S.	74	45	14.2	+ 2.2		....	....
	21	R.	.	10	1	41.33	− 0.02	1	4.97	− 0.05	.	77	54	50.0	+ 1.7	15	50.0	− 1.4
	25	R.	.	10	16	25.10	− 0.11	1	4.72	− 0.05	.	79	16	19.0	− 0.4	15	50.6	− 1.6
Sept.	6	R.	.	11	0	2.80	− 0.16	1	4.12	− 0.10	.	83	35	55.4	0.0	15	54.9	− 0.0
Oct.	9	W.	.	12	59	9.58	+ 0.03	1	4.68	− 0.12	.	96	19	10.9	+ 1.5	16	3.1	− 0.6
	10	S.	.	13	2	50.18	+ 0.06	1	4.76	− 0.11	.	96	41	57.8	+ 1.4	16	3.9	− 0.1
	11	E.	.	13	6	31.10	− 0.05	1	4.92	− 0.02	.	97	4	39.4	+ 1.4	16	3.6	− 0.6
	25	W.	.	13	59	4.96	+ 0.04	1	6.04	− 0.15	.	102	9	23.2	+ 0.8	16	6.3	− 1.7
	30	E.	.	14	18	23.98	0.00	1	6.72	− 0.01	.	103	50	21.6	+ 1.6	16	8.7	− 0.6
	31	S.	.	14	22	18.18	+ 0.06	1	6.72	− 0.12	.	104	9	53.8	+ 0.2	16	8.5	− 1.0
Nov.	3	E.	.	14	34	5.36	+ 0.07	1	7.14	− 0.05	.	105	7	13.0	+ 2.3	16	10.1	− 0.2
	5	P.	.	14	42	0.79	+ 0.03	1	7.35	− 0.08	.	105	44	10.1	+ 1.6	16	9.8	− 1.0
	7	E.	.	14	49	59.55	+ 0.06	1	7.64	− 0.02	.	106	20	5.4	+ 1.9	16	10.8	− 0.5
	10	W.	.	15	2.1	....	....		....	....	.	107	11	51.7	+ 0.6	16	10.2	− 1.8
	12	S.	.	15	10	10.92	+ 0.14	1	8.15	− 0.11	.	107	44	56.3	+ 1.3	16	11.3	− 1.1
	15	E.	.	15	22	27.70	+ 0.07	1	8.59	− 0.03	.	108	32	10.5	− 0.6	16	11.9	− 1.2
	16	S.	.	15	26	34.96	+ 0.02	1	8.66	− 0.08	.	108	47	17.2	− 0.5	16	12.6	− 0.7
	17	P.	.	15	30	43.04	− 0.07	1	8.76	− 0.10	.	109	[illegible]	2.9	− 1.4	16	11.8	− 1.7
	19	E.	.	15	39	1.96	− 0.01	1	9.09	0.00	.	109	30	36.8	+ 0.9	16	12.5	− 1.4
	27	E.	.	16	12	50.12	− 0.09	1	9.94	+ 0.01	.	111	10	8.8	+ 0.7	16	14.0	− 1.3
	28	S.	.	16	17	7.28	+ 0.07	1	9.92	− 0.11	.	111	20	50.4	− 0.1	16	15.1	− 0.4
Dec.	1	E.	.	16	30	2.30	− 0.05	1	10.38	+ 0.08	.	111	50	30.7	− 0.2	16	15.7	− 0.2
	5	E.	.	16	47.4	....	....		....	....	.	112	24	12.9	+ 1.5	16	14.4	− 2.1
	6	S.	.	16	51	46.52	− 0.03	1	10.59	− 0.11	.	112	31	32.4	+ 0.7	16	16.0	− 0.7
	10	S.	.	17	9	18.94	− 0.14	1	10.84	− 0.12	.	112	56	26.5	+ 0.2	16	16.6	− 0.6
	11	P.	.	17	13	43.19	− 0.06	1	10.80	− 0.17	.	113	1	32.8	+ 0.5	16	15.8	− 1.5
	13	E.	.	17	22	32.54	− 0.15	1	11.03	− 0.08	.	113	10	22.4	+ 0.5	16	16.7	− 0.8
	28	W.	.	18	29	6.04	− 0.22	1	11.12	− 0.10	.	113	17	1.0	+ 1.7	16	17.2	− 1.1
	29	E.	.	18	33	32.31	− 0.02	1	11.17	− 0.02	.	113	13	39.9	− 0.2	16	16.7	− 1.6
1884.																		
Jan.	26	E.	.	20	34	25.62	− 0.05	1	8.92	− 0.04	.	108	43	36.5	+ 0.5	16	16.2	− 0.6
Feb.	1	P.	.	20	59	8.37	0.00	1	8.20	− 0.08	.	107	6	47.7	− 1.6	16	15.7	− 0.3
	2	W.	.	21	3	12.67	+ 0.11	1	8.12	− 0.04	.	106	49	37.3	− 1.2	16	14.3	− 1.6
	15	E.	.	21	54	52.50	− 0.07	1	6.74	+ 0.03	.	102	41	39.0	− 0.1	16	12.8	− 0.8
	21	P.	.	22	18	0.93	+ 0.06	1	6.02	− 0.09	.	100	34	37.1	− 1.2	16	10.7	− 1.6
	22	W.	.	22	21	50.08	+ 0.11	1	5.89	− 0.13	.	100	12	50.7	− 0.6	16	9.8	− 2.2

S U N—Continued.

Date.		Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
1884.				h	m	s	s	m	s	s		°	′	″	″	′	″	″
Feb.	27	E.	.	22	40	46.39	− 0.04	1	5.50	− 0.09	.	98	21	43.8	− 0.5	16	9.2	− 1.7
Mar.	10	E.	.	23	25	21.52	− 0.03	1	4.80	− 0.03	.	93	44	15.4	+ 0.6	16	7.2	− 0.7
	21	W.	.	0	5	32.35	+ 0.05	1	4.45	− 0.05	.	89	23	56.3	− 0.7	16	3.0	− 1.9
	22	E.	.	0	9	10.46	− 0.12	1	4.45	− 0.03	.	89	0	16.5	− 1.1	16	3.4	− 1.2
	25	W.	.	0	20	5.15	+ 0.01	1	4.35	− 0.11	.	87	49	30.8	− 0.2	16	2.6	− 1.2
	27	S.	.	0	27	21.45	+ 0.01	1	4.46	− 0.01	.	87	2	33.5	+ 0.4	16	1.2	− 2.0
	31	S.	.	0	41	54.40	− 0.06	1	4.50	− 0.01	.	85	29	22.3	− 0.2	16	1.7	− 0.4
Apr.	4	S.	.	0	56	29.00	+ 0.03	1	4.56	− 0.04	.	83	57	32.3	+ 1.3	15	59.5	− 1.5
	5	P.	.	1	0	7.99	+ 0.04	1	4.53	− 0.09	.	83	34	49.6	+ 1.6	15	59.7	− 1.1
	7	E.	.	1	7	26.58	+ 0.10	1	4.66	− 0.02	.	82	49	40.9	− 1.1	15	59.0	− 1.2
	16	S.	.	1	40	33.48	+ 0.02	1	4.99	− 0.11	.	79	33	27.7	+ 0.5	15	56.0	− 1.8
	26	W.	.	2	17	58.88	+ 0.01	1	5.65	− 0.10	.	76	11	47.3	− 0.4	15	54.0	− 1.0
	28	S.	.	2	25	33.75	+ 0.04	1	5.87	− 0.03	.	75	34	1.3	+ 1.1	15	52.7	− 2.0
	29	P.	.	2	29	21.85	− 0.04	1	5.85	− 0.12	.	75	15	27.7	0.0	15	53.1	− 1.4
	30	E.	.	2	33	10.54	− 0.04	1	6.09	+ 0.04	.	74	57	9.1	− 0.7	15	53.1	− 1.1
May	1	W.	.	2	36	59.75	− 0.04	1	6.08	− 0.05	.	74	39	7.2	+ 0.4	15	52.8	− 1.2
	2	S.	.	2	40	49.65	+ 0.12	1	6.16	− 0.05	.	74	21	20.4	+ 1.3	15	53.4	− 0.4
	12	W.	.	3	19	37.26	+ 0.01	1	6.92	− 0.11	.	71	38	28.0	+ 0.8	15	49.9	− 1.7
	15	P.	.	3	31	26.75	− 0.02	1	7.12	− 0.15	.	70	55	23.0	+ 0.3	15	48.8	− 2.2
	16	W.	.	3	35	24.52	+ 0.07	1	7.23	− 0.12	.	70	41	40.0	+ 0.6	15	49.8	− 1.0
	21	E.	.	3	55	21.41	− 0.08	1	7.71	− 0.03	.	69	38	3.0	+ 1.1	15	48.7	− 1.2
	23	P.	.	4	3	24.05	− 0.13	1	7.78	− 0.11	.	69	14	8.7	− 0.3	15	49.0	− 0.6
	24	W.	.	4	7	26.35	+ 0.05	1	7.92	− 0.04	.	69	4	0.4	+ 0.9	15	48.4	− 1.0
	29	E.	.	4	27	44.14	+ 0.02	1	8.28	0.00	.	68	14	30.4	+ 0.4	15	47.7	− 0.9
June	2	E.	.	4	44	5.98	− 0.04	1	8.48	− 0.04	.	67	41	40.3	− 0.4	15	46.8	− 1.3
	4	P.	.	4	52	19.22	+ 0.06	1	8.42	− 0.20	.	67	27	37.2	+ 1.7	15	46.6	− 1.3
	5	W.	.	4	56	26.28	+ 0.07	1	8.51	− 0.15	.	67	21	7.8	− 0.6	15	46.7	− 1.1
	7	S.	.	5	4	41.27	+ 0.06	1	8.61	− 0.13	.	67	9	27.6	+ 1.8	15	46.2	− 1.3
	10	P.	.	5	42	0.10	− 0.07	1	8.82	− 0.14	.	66	36	46.0	+ 0.3	15	44.9	− 1.8
	17	W.	.	5	46	9.65	− 0.06	1	8.90	− 0.07	.	66	35	11.6	+ 0.7	15	45.5	− 1.1
	18	E.	.	5	50	19.28	− 0.04	1	8.88	− 0.10	.	66	34	1.4	+ 0.5	15	45.4	− 1.2
	20	P.	.	5	58	38.58	− 0.06	1	8.85	− 0.13	.	66	32	55.2	− 0.1	15	44.8	− 1.6
	21	W.	.	6	2	48.36	+ 0.05	1	8.89	− 0.08	.	66	33	1.3	+ 1.6	15	45.1	− 1.3
July	8	E.	.	7	13	6.05	+ 0.05	1	8.36	− 0.06	.	67	36	40.6	− 1.0	15	45.4	− 0.9
	9	S.	.	7	17	11.25	− 0.03	1	8.30	− 0.06	.	67	44	3.0	+ 1.6	15	44.7	− 1.6
	10	P.	.	7	21	16.04	− 0.01	1	8.16	− 0.14	.	67	51	44.6	+ 0.3	15	44.8	− 1.5
	11	W.	I	7	25	20.68	+ 0.09		....	....	.	67	59	50.1	+ 0.1	15	45.8	− 0.6
	14	S.	.	7	37	31.14	− 0.05	1	7.94	− 0.10	.	68	26	23.0	+ 0.5	15	44.4	− 2.1
	15	W.	.	7	41	33.70	− 0.08	1	7.84	− 0.13	.	68	35	57.4	− 0.5	15	46.0	− 0.5
	17	S.	II	7	49	37.44	− 0.03		....	....	.	68	56	13.9	− 0.1	15	45.0	− 1.6
	19	W.	.	7	57	39.08	− 0.03	1	7.56	− 0.10	.	69	17	55.6	− 0.1	15	46.4	− 0.4
	21	S.	.	8	5	58.56	− 0.01	1	7.44	− 0.06	.	69	41	1.5	+ 0.3	15	45.5	− 1.4
	22	P.	.	8	9	37.35	− 0.11	1	7.30	− 0.12	.	69	53	4.5	− 0.2	15	45.4	− 1.6
	23	W.	.	8	13	35.86	+ 0.09	1	7.24	− 0.10	.	70	5	29.7	+ 1.3	15	45.1	− 2.0
	24	E.	.	8	17	33.43	− 0.06	1	7.23	− 0.03	.	70	18	11.2	− 0.7	15	46.7	− 0.5
Aug.	1	E.	.	8	48	53.25	− 0.04	1	6.54	− 0.04	.	72	11	23.1	− 0.1	15	47.5	− 0.7
	8	W.	I	9	15	45.81	+ 0.06		....	....	.	74	5	43.3	+ 0.7	15	47.9	− 1.3
	12	W.	.	9	30	54.35	− 0.03	1	5.52	− 0.12	.	75	16	47.2	+ 0.4	15	49.6	− 0.2
	13	E.	.	9	34	40.15	− 0.03	1	5.52	− 0.04	.	75	35	9.0	0.0	15	49.0	− 1.0
	14	W.	.	9	38	25.46	0.00	1	5.38	− 0.10	.	75	53	44.6	+ 0.6	15	48.8	− 1.4
	15	P.	.	9	42	10.08	− 0.14	1	5.28	− 0.12	.	76	12	33.5	− 1.1	15	48.2	− 2.1
	16	W.	.	9	45	54.46	− 0.02	1	5.22	− 0.11	.	76	31	36.8	− 0.5	15	50.2	− 0.3
	19	P.	.	9	57	4.37	+ 0.03	1	5.00	− 0.11	.	77	30	1.2	− 0.6	15	49.4	− 1.7
	20	W.	.	10	0	46.77	+ 0.10	1	4.94	− 0.10	.	77	49	5.2	+ 1.0	15	50.9	− 0.4
	21	E.	.	10	4	28.54	0.00	1	4.96	− 0.01	.	78	9	57.4	− 0.8	15	51.1	− 0.4
	25	E.	.	10	19	11.48	− 0.10	1	4.65	− 0.07	.	79	32	3.1	+ 0.1	15	50.8	− 1.5
	26	E.	.	10	22	51.22	− 0.07	1	4.61	− 0.06	.	79	53	0.6	+ 0.7	15	50.9	− 1.6
	27	P.	.	10	26	30.64	+ 0.04	1	4.52	− 0.09	.	80	14	5.2	− 1.2	15	51.9	− 0.9
Sept.	1	W.	.	10	44	41.72	− 0.04	1	4.28	− 0.10	.	82	1	50.8	− 0.2	15	53.0	− 0.9

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1884.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Sept. 1	E.	.	10 48 18.99	− 0.04	1 4.28	− 0.06	.	82 23 48.1	− 0.1	15 53.4	− 0.8
3	S.		10 51 56.05	+ 0.03	1 4.23	− 0.07	.	82 45 51.9	− 0.6	15 53.3	− 1.1
13	W.	.	11 27 55.73	+ 0.08	1 3.90	− 0.07	.	86 32 14.8	+ 0.4	15 55.0	− 1.8
15	S.	.	11 35 6.44	+ 0.01	1 3.98	− 0.07	.	87 18 26.8	− 1.0	15 55.4	− 2.0
19	S.	.	11 49 28.07	− 0.01	1 4.04	− 0.02	.	88 51 31.4	+ 1.4	15 54.6	− 2.0
23	S.	.	12 3 50.80	+ 0.07	1 4.10	− 0.03	.	90 25 1.3	+ 0.6	15 58.7	− 0.8
26	S.	.	12 14 39.02	− 0.02	1 4.16	− 0.05	N.	91 35 11.4	− 2.5	....	....
Oct. 6	P.	.	12 50 55.44	− 0.13	1 4.54	− 0.13	.	95 27 40.2	− 0.4	16 1.5	− 1.6
10	P.	.	13 5 36.47	− 0.03	1 4.81	− 0.12	.	96 59 2.0	− 0.6	16 3.2	− 1.0
14	P.	.	13 20 25.42	− 0.04	1 5.17	− 0.06	.	98 28 54.2	− 0.9	16 3.9	− 1.4
21	E.	.	13 46 43.81	+ 0.02	1 5.76	− 0.10	.	101 1 22.0	− 1.1	16 6.2	− 1.0
22	S.	.	13 50 32.11	+ 0.27	1 5.82	− 0.14	.	101 22 34.6	+ 1.1	16 6.3	− 1.1
23	P.	.	13 54 20.46	− 0.10	1 5.96	− 0.10	.	101 43 33.2	− 0.4	16 5.8	− 1.9
25	S.	.	14 2 0.15	+ 0.05	1 6.16	− 0.11	.	102 25 0.4	− 0.8	16 7.2	− 1.0
Nov. 1	E.	.	14 29 11.52	− 0.09	1 7.00	− 0.05	.	104 43 41.3	− 0.9	16 9.1	− 1.0
3	P.	.	14 37 4.77	− 0.01	1 7.10	− 0.18	.	105 21 15.2	− 1.3	16 9.2	− 1.4
7	P.	.	14 53 1.03	− 0.08	1 7.73	− 0.02	.	106 33 18.6	− 1.4	16 10.6	− 0.9
8	W.	.	14 57 2.34	+ 0.01	1 7.80	− 0.07	.	106 50 40.1	0.0	16 10.8	− 0.9
10	S.	.	15 5 7.36	− 0.02	1 8.05	− 0.06	.	107 24 27.2	− 1.2	16 10.2	− 2.0
11	P.	.	15 9 11.16	− 0.05	1 8.12	− 0.11	.	107 40 54.4	− 1.6	16 10.7	− 1.7
12	W.	.	15 13 15.95	+ 0.05	1 8.23	− 0.12	.	107 57 5.6	+ 0.5	16 11.3	− 1.3
13	E.	.	15 17 21.53	+ 0.06	1 8.42	− 0.05	.	108 12 55.1	− 0.5	16 12.1	− 0.7
14	S.	.	15 21 27.97	+ 0.07	1 8.50	− 0.09	.	108 28 28.3	+ 1.5	16 11.4	− 1.6
15	P.	.	15 25 35.20	+ 0.01	1 8.63	− 0.08	.	108 43 37.6	− 1.0	16 11.8	− 1.4
17	E.	.	15 33 52.34	0.00	1 8.86	− 0.08	.	109 13 1.0	− 1.0	16 13.4	− 0.2
20	W.	.	15 46 24.41	+ 0.16	1 9.19	− 0.09	.	109 54 31.5	+ 0.3	16 12.6	− 1.6
21	E.	.	15 50 36.41	− 0.09	1 9.36	− 0.03	.	110 7 36.9	− 0.8	16 12.6	− 1.8
22	S.	.	15 54 49.84	+ 0.32	1 9.36	− 0.14	.	110 20 21.9	− 0.1	16 13.0	− 1.6
24	W.	.	16 3 17.55	− 0.31	1 9.68	− 0.03	.	110 44.7	....	16 14.3	− 0.7
Dec. 2	W.	.	16 37 39.36	+ 0.02	1 10.36	− 0.10	.	112 6 10.4	+ 1.1	16 14.4	− 1.9
3	E.	.	16 41 59.78	− 0.14	1 10.60	+ 0.06	.	112 14 26.5	− 1.2	16 16.0	− 0.4
4	S.	.	16 46 21.10	+ 0.02	1 10.53	− 0.09	.	112 22 20.6	+ 0.4	16 15.4	− 1.1
5	P.	.	16 50 42.73	− 0.07	1 10.52	− 0.17	.	112 29 45.7	− 0.9	16 15.5	− 1.2
9	P.	.	17 8 14.90	+ 0.08	1 10.86	− 0.09	.	112 55 5.1	− 1.3	16 16.0	− 1.1
10	W.	.	17 12 38.89	− 0.10	1 10.94	− 0.06	.	113 0 18.8	− 0.1	16 16.6	− 0.6
16	S.	.	17 39 11.35	+ 0.01	1 11.12	− 0.11	.	113 21 54.5	− 0.2	16 16.9	− 0.9
19	E.	.	17 52 30.57	− 0.05	1 11.27	− 0.01	.	113 26.4	....	....	....
1885.											
Jan. 9	S.	II	19 25 14.00	− 0.06	....	....	.	112 0 23.7	+ 1.7	16 16.3	− 1.9
13	S.	.	19 42 33.82	+ 0.04	1 10.10	− 0.12	.	111 21 36.2	+ 1.1	16 17.1	− 0.9
14	W.	.	19 46 52.08	0.08	1 9.96	− 0.17	.	111 10 50.3	− 0.6	16 17.6	− 0.3
21	S.	.	20 16 40.94	− 0.05	1 9.36	− 0.07	.	109 44 38.0	− 0.6	16 17.1	− 0.2
26	P.	.	20 37 35.32	+ 0.02	1 8.74	− 0.14	.	108 32 58.5	− 0.5	16 14.7	− 2.1
27	W.	.	20 41 43.80	+ 0.12	1 8.58	− 0.19	.	108 16 26.0	+ 0.7	16 13.9	− 2.7
29	S.	.	20 49 57.88	− 0.08	1 8.52	− 0.03	.	107 44 38.0	+ 0.8	16 16.3	− 0.1
Feb. 2	S.	.	21 6 16.48	− 0.14	1 8.02	− 0.07	.	106 36 23.3	+ 0.2	16 14.8	− 1.0
12	E.	.	21 46 7.46	− 0.01	1 6.88	− 0.07	.	103 27 16.6	+ 0.8	16 13.7	0.3
16	W.	.	22 1 42.52	− 0.02	1 6.42	− 0.11	.	102 5 5.2	+ 1.2	16 13.0	− 0.2
17	E.	.	22 5 34.51	+ 0.01	1 6.49	+ 0.06	.	101 44 2.2	+ 0.9	16 11.4	− 1.6
19	P.	.	22 13 16.32	0.00	1 6.09	− 0.14	.	101 1 23.3	− 0.1	16 11.5	− 1.0
20	W.	.	22 17 6.14	− 0.05	1 6.04	− 0.09	.	100 39 50.4	+ 1.4	16 11.9	− 0.4
28	W.	.	22 47 22.56	+ 0.11	1 5.34	− 0.12	.	97 41 57.2	+ 1.7	16 9.7	− 0.8
Mar. 9	E.	.	23 20 46.74	− 0.02	1 4.88	− 0.01	.	94 13 29.0	− 1.0	16 7.2	− 1.0
16	W.	I	23 46 26.52	− 0.07	....	....	.	91 28 10.9	+ 2.0	16 5.1	− 1.2
18	S.	.	23 53 44.47	+ 0.02	1 4.46	− 0.09	.	90 40 3.3	− 0.5	16 5.3	− 0.5
24	W.	.	0 15 34.62	+ 0.06	1 4.34	− 0.13	.	88 18 45.7	− 0.2	16 3.1	− 1.0
25	E.	I	0 19 12.59	− 0.01	....	....	.	87 55 11.8	− 0.8	16 4.0	+ 0.1
26	S.	.	0 22 50.64	+ 0.03	1 4.35	− 0.12	.	87 31 42.4	+ 0.2	16 3.0	− 0.6
30	S.	.	0 37 22.78	+ 0.04	1 4.39	− 0.10	.	85 58 13.8	0.9	16 0.4	− 2.1

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semidiameter.	Corr'n to Am. Eph.
1885.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Apr. 3	S.	.	0 51 56.19	+ 0.01	1 4.45	− 0.10	.	84 25 59.2	+ 0.7	15 59.9	− 1.5
6	E.	.	1 2 52.94	+ 0.06	1 4.62	− 0.02	.	83 17 46.4	+ 0.7	15 59.6	− 0.9
9	W.	.	1 13 51.87	0.00	1 4.67	− 0.08	.	82 10 34.0	+ 0.3	15 58.5	− 1.2
14	E.	.	1 32 15.75	− 0.09	1 4.96	− 0.01	.	80 21 15.6	+ 0.9	15 57.8	− 0.5
20	P.	.	1 54 32.22	+ 0.04	1 5.20	− 0.11	.	78 15 22.6	− 0.2	15 55.8	− 1.2
22	E.	.	2 2 0.79	− 0.04	1 5.41	− 0.03	.	77 34 56.0	+ 1.1	15 54.9	− 1.4
27	S.	.	2 20 50.42	+ 0.06	1 5.72	− 0.08	.	75 57 24.8	− 0.8	15 53.8	− 1.2
29	W.	.	2 28 25.56	− 0.06	1 5.97	+ 0.01	.	75 20 1.6	+ 0.9	15 53.9	− 0.7
May 5	E.	.	2 51 24.52	+ 0.08	1 6.38	− 0.06	.	73 33 42.2	− 0.7	15 51.8	− 1.4
11	W.	.	3 14 44.10	− 0.05	1 6.82	− 0.10	.	71 57 10.8	− 0.8	15 51.2	− 0.6
15	W.	.	3 30 29.03	+ 0.02	1 7.15	− 0.09	.	70 58 49.8	+ 1.4	15 49.8	− 1.2
16	E.	.	3 34 26.65	0.00	1 7.26	− 0.07	.	70 45.0	....	....	....
June 4	W.	.	4 51 17.44	− 0.06	1 8.40	− 0.19	.	67 29 18.2	+ 1.2	15 45.9	− 2.0
9	W.	.	5 11 55.87	+ 0.01	1 8.73	− 0.07	.	67 0 32.0	+ 0.7	15 46.3	− 1.0
11	P.	.	5 20 13.04	− 0.08	1 8.78	− 0.08	.	66 51 49.5	− 0.1	15 45.5	− 1.6
12	P.	.	5 24 22.02	− 0.05	1 8.74	− 0.14	.	66 48 4.8	− 0.6	15 46.0	− 1.0
16	W.	.	5 40 59.38	+ 0.05	1 8.90	− 0.05	.	66 37 16.1	+ 2.8	15 45.4	− 1.3
18	S.	.	5 49 18.40	− 0.05	1 8.88	− 0.09	.	66 34 18.0	+ 1.1	15 46.4	− 0.2
19	P.	.	5 53 28.10	+ 0.04	1 8.88	− 0.09	.	66 33 24.4	− 1.0	15 44.9	− 1.6
20	W.	.	5 57 37.64	− 0.02	1 8.84	− 0.13	.	66 33 0.5	+ 1.8	15 44.9	− 1.6
24	W.	.	6 14 15.60	+ 0.12	1 8.82	− 0.13	.	66 35 21.5	+ 1.6	15 44.9	− 1.4
30	S.	.	6 39 8.30	+ 0.03	1 8.67	− 0.13	.	66 51 13.2	+ 1.0	15 45.2	− 1.0
July 1	P.	.	6 43 16.25	− 0.11	1 8.66	− 0.10	.	66 55 17.0	+ 0.5	15 44.1	− 2.1
3	E.	.	6 51 31.75	− 0.04	1 8.65	− 0.03	.	67 4 38.6	+ 0.9	15 44.5	− 1.7
8	S.	.	7 12 4.94	− 0.02	1 8.32	− 0.12	.	67 34 58.3	+ 0.5	15 45.3	− 0.9
9	P.	.	7 16 10.42	− 0.08	1 8.20	− 0.18	.	67 42 12.4	+ 0.2	15 44.2	− 2.0
10	W.	.	7 20 15.69	+ 0.05	1 8.22	− 0.10	.	67 49 50.3	+ 0.6	15 45.7	− 0.6
15	E.	.	7 40 34.49	− 0.03	1 7.99	0.00	.	68 33 35.5	− 0.7	15 45.1	− 1.4
16	S.	.	7 44 36.81	+ 0.01	1 7.85	− 0.07	.	68 43 28.9	+ 0.9	15 45.4	− 1.2
18	W.	.	7 52 39.80	+ 0.06	1 7.67	− 0.09	.	69 4 16.9	+ 0.6	15 46.0	− 0.7
20	S.	.	8 0 40.42	− 0.02	1 7.56	− 0.04	.	69 26 29.4	+ 0.3	15 45.7	− 1.2
21	P.	.	8 4 39.92	0.00	1 7.36	− 0.16	.	69 38 5.9	− 0.7	15 45.3	− 1.7
22	W.	.	8 8 38.78	− 0.03	1 7.32	− 0.12	.	69 50 5.9	+ 1.3	15 45.8	− 1.3
25	P.	.	8 20 31.86	− 0.08	1 7.05	− 0.15	.	70 27 58.3	− 0.7	15 46.0	− 1.4
31	E.	.	8 44 2.10	+ 0.05	1 6.64	− 0.04	.	71 52 26.0	+ 0.1	15 47.9	− 0.1
Aug. 4	E.	.	8 59 30.20	− 0.09	1 6.27	− 0.06	.	72 54 43.3	− 0.5	15 46.9	− 1.6
11	W.	.	9 26 12.53	+ 0.09	1 5.64	− 0.10	.	74 54 15.4	+ 0.5	15 48.2	− 1.4
12	E.	I	9 29 59.10	+ 0.06	....	....	N.	75 12 19.9	+ 0.2	....	....
19	W.	.	9 56 9.86	− 0.08	1 5.01	− 0.13	.	77 25 12.7	+ 1.3	15 50.5	− 0.6
20	E.	.	9 59 52.09	− 0.17	1 5.02	− 0.05	.	77 44 59.8	− 0.5	15 49.9	− 1.4
27	W.	.	10 25.6	....	....	....	.	80 8 50.1	− 0.5	15 51.2	− 1.6
28	E.	.	10 29.2	....	....	....	.	80 30 4.2	+ 0.5	15 51.1	− 1.9
31	W.	II	10 40 9.71	− 0.03	....	....	N.	81 34 36.8	+ 0.3	....	....
Sept. 4	W.	.	10 54 38.94	+ 0.01	1 4.16	− 0.11	.	83 2 35.3	+ 1.6	15 53.3	− 1.2
17	W.	.	11 41 24.74	− 0.04	1 3.94	− 0.12	.	87 59 15.0	+ 1.8	15 56.5	− 1.4
19	P.	II	11 48 35.45	+ 0.02	....	....	S.	88 45 46.4	− 0.9	....	...
24	W.	.	12 6 33.16	− 0.03	1 4.04	− 0.11	.	90 42 38.8	+ 0.6	15 58.6	− 1.2
Oct. 10	W.	.	13 4 42.86	+ 0.05	1 4.80	− 0.11	.	96 53 30.3	− 0.5	16 3.3	− 0.8
16	S.	.	13 26 58.96	− 0.01	1 5.30	− 0.08	.	99 7 49.0	− 0.6	16 4.2	− 1.6
17	P.	.	13 30 43.50	− 0.06	1 5.37	− 0.10	.	99 29 46.9	− 0.3	16 4.5	− 1.6
22	W.	.	13 49 35.70	− 0.04	1 5.90	− 0.04	.	101 17 23.5	+ 0.5	16 5.7	− 1.7
26	W.	.	14 4 53.65	− 0.01	1 6.27	− 0.08	.	102 40 25.7	− 0.1	16 7.0	− 1.5
27	E.	.	14 8 44.90	− 0.09	1 6.43	− 0.03	.	103 0 42.2	− 0.9	16 8.0	− 0.7
Nov. 4	E.	.	14 40 4.15	− 0.08	1 7.34	− 0.03	.	105 35 10.5	− 0.2	16 9.6	− 1.1
12	E.	.	15 12 16.76	− 0.06	1 8.23	− 0.10	.	107 53 13.1	+ 1.1	16 10.8	− 1.7
16	E.	.	15 28 43.13	− 0.05	1 8.78	− 0.11	.	108 54 57.1	+ 0.8	16 13.2	− 0.2
17	S.	.	15 32 51.81	− 0.01	1 8.85	− 0.06	.	109 9 32.0	− 0.6	16 13.0	− 0.6
20	E.	.	15 45 22.67	+ 0.04	1 9.22	− 0.03	.	109 51 16.3	+ 0.3	16 13.4	− 0.8
25	S.	.	16 6 30.07	+ 0.15	1 9.69	− 0.11	.	110 53 30.2	+ 1.6	16 14.1	− 1.0

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
			h m s	s	m s	s		° ′ ″	″	′ ″	″
1885. Dec. 2	E.	.	16 36 35.42	+ 0.05	1 10.46	+ 0.02	.	112 4 2.6	+ 0.9	16 15.8	− 0.4
11	S.	.	17 15 59.81	+ 0.07	1 10.89	− 0.14	.	113 3 58.9	+ 1.9	16 16.4	− 0.9
15	S.	.	17 33 40.76	− 0.14	1 11.14	− 0.05	.	113 18 49.1	+ 0.2	16 16.2	− 1.5
16	P.	.	17 38 6.84	+ 0.04	1 11.12	− 0.10	.	113 21 24.3	+ 2.2	16 16.9	− 0.9
17	W.	.	17 42 32.82	− 0.06	1 11.16	− 0.08	.	113 23 29.0	+ 1.7	16 17.6	− 0.2
18	E.	.	17 46 59.10	0.00	1 11.36	+ 0.10	.	113 25 3.8	− 0.5	16 17.8	− 0.1
21	W.	.	18 0 18.16	− 0.19	1 11.20	− 0.10	.	113 27 7.6	+ 1.9	16 16.8	− 1.3
22	E.	.	18 4 44.79	− 0.06	1 11.19	− 0.11	.	113 26 50.7	+ 1.1	16 16.6	− 1.6
26	E.	.	18 22 30.30	− 0.32	1 11.28	− 0.08	.	113 21 2.1	− 0.1	16 17.4	− 0.9
29	W.	.	18 35 48.60	− 0.10	1 10.98	− 0.19	.	113 11 47.9	+ 2.1	16 17.1	− 1.3
30	E.	.	18 40.2	....	....	....	.	113 7 46.0	+ 1.6	16 17.0	− 1.4
1886. Jan. 20	S.	.	20 11 25.09	+ 0.07	1 9.46	− 0.10	.	110 1 23.7	+ 1.1	16 16.7	− 0.8
22	W.	.	20 19 50.94	+ 0.06	1 9.24	− 0.11	.	109 34 15.9	− 1.0	16 16.3	− 1.0
Feb. 1	S.	.	21 1 13.11	− 0.02	1 8.14	− 0.08	.	106 58 4.0	+ 0.9	16 14.8	1.1
8	E.	.	21 29 22.58	− 0.01	1 7.32	− 0.10	.	104 50 35.1	− 1.6	16 13.4	− 1.4
9	S.	.	21 33 20.78	+ 0.10	1 7.20	− 0.11	.	104 31 20.1	− 1.3	16 12.9	− 1.7
15	W.	.	21 56 52.82	+ 0.17	1 6.55	− 0.11	.	102 30 58.8	− 2.6	16 12.1	− 1.4
16	E.	.	22 0 45.31	− 0.02	1 6.50	− 0.05	.	102 10 12.0	− 1.8	16 11.6	− 1.7
18	W.	.	22 8 28.60	+ 0.05	1 6.28	− 0.07	.	101 28 4.0	− 0.3	16 11.0	− 1.8
24	E.	.	22 31 22.45	+ 0.07	1 5.76	− 0.04	.	99 17 28.4	− 1.5	16 9.8	− 1.7
27	W.	.	22 42 41.41	+ 0.08	1 5.48	− 0.06	.	98 10 12.8	− 1.1	16 9.3	− 1.5
Mar. 1	S.	.	22 50 11.55	+ 0.21	1 5.40	0.00	.	97 24 45.7	+ 0.1	16 9.0	− 1.3
3	W.	.	22 57 39.42	+ 0.04	1 5.20	− 0.06	.	96 38 54.7	+ 0.1	16 8.4	− 1.4
4	E.	.	23 1 22.74	+ 0.03	1 5.15	− 0.05	.	96 15 49.0	+ 0.4	16 8.5	− 1.0
5	S.	.	23 5 5.55	− 0.04	1 5.03	− 0.10	.	95 52 37.7	− 0.7	16 8.8	− 0.4
6	P.	.	23 8 48.04	− 0.01	1 4.98	− 0.09	.	95 29 22.2	− 1.3	16 7.4	− 1.6
11	W.	.	23 27 14.58	+ 0.08	1 4.72	− 0.09	.	93 32 10.9	− 0.2	16 7.4	− 0.3
16	E.	.	23 45 32.84	0.00	1 4.56	− 0.05	.	91 33 58.6	+ 0.2	16 5.0	− 1.4
17	S.	.	23 49 11.76	0.00	1 4.49	− 0.09	.	91 10 15.1	− 1.6	16 6.2	0.0
24	E.	.	0 14 40.15	0.00	1 4.44	− 0.04	.	88 24 36.9	− 1.1	16 2.7	− 1.5
Apr. 1	E.	.	0 43 45.37	− 0.12	1 4.45	− 0.06	.	85 17 36.2	− 1.6	16 0.3	− 1.7
2	S.	.	0 47 24.02	− 0.02	1 4.44	− 0.09	.	84 54 32.6	− 1.4	16 0.5	− 1.2
9	E.	.	1 12 58.55	− 0.11	1 4.78	+ 0.04	.	82 15 56.1	− 1.9	15 59.6	− 0.2
14	S.	.	1 31 21.86	− 0.02	1 4.94	− 0.02	.	80 26 27.7	− 1.7	15 57.2	− 1.3
15	P.	.	1 35 3.45	+ 0.01	1 4.92	− 0.09	.	80 5 1.1	− 1.8	15 56.7	− 1.5
19	P.	.	1 49 53.38	+ 0.02	1 5.16	− 0.08	.	78 40 59.1	− 0.2	15 55.6	− 1.6
20	W.	.	1 53 36.86	+ 0.01	1 5.19	− 0.11	.	78 20 22.9	− 2.5	15 56.0	− 0.9
22	S.	.	2 1 5.28	+ 0.11	1 5.38	− 0.05	.	77 39 51.9	− 0.5	15 54.9	− 1.5
May 3	E.	.	2 42 46.90	+ 0.05	1 6.22	− 0.03	.	74 12 22.0	− 0.7	15 52.3	− 1.4
5	P.	.	2 50 28.73	0.00	1 6.33	− 0.08	.	73 37 49.1	− 0.6	15 50.8	− 1.4
17	P.	.	3 37 26.81	0.00	1 7.28	− 0.12	.	70 34 44.8	− 0.9	15 50.0	− 0.8
22	W.	.	3 57 24.70	− 0.02	1 7.69	− 0.09	.	69 32 0.5	− 0.9	15 49.1	− 0.7
June 5	S.	.	4 54 25.78	+ 0.05	1 8.60	− 0.04	.	67 24 15.7	− 0.7	15 46.5	− 1.3
8	E.	II	5 6 48.65	0.00	....	....	.	67 6 40.9	− 1.7	15 45.7	− 1.8
12	E.	.	5 23 22.51	− 0.03	1 8.82	− 0.06	.	66 48 55.5	− 0.5	15 46.2	− 0.9
19	W.	.	5 52 27.38	− 0.03	1 8.96	− 0.02	.	66 33 35.1	− 0.4	15 45.7	− 0.9
25	S.	.	6 17 24.26	− 0.04	1 8.88	− 0.06	.	66 36 31.5	− 1.1	15 45.1	− 1.2
29	S.	.	6 34 0.38	0.00	1 8.71	− 0.12	.	66 46 43.9	− 0.5	15 44.4	− 1.8
July 6	E.	.	7 2 54.58	+ 0.06	1 8.58	+ 0.02	.	67 20 8.9	− 1.7	15 44.7	− 1.5
7	S.	.	7 7 0.98	+ 0.06	1 8.42	− 0.09	.	67 26 32.1	− 0.5	15 45.5	− 0.7
12	P.	.	7 27 26.51	− 0.03	1 8.16	− 0.06	.	68 4 9.5	− 0.8	15 44.9	− 1.5
17	W.	.	7 47 40.36	+ 0.07	1 7.74	− 0.12	.	68 51 11.0	− 0.4	15 46.3	− 0.4
19	S.	.	7 55 42.14	− 0.04	1 7.64	− 0.06	.	69 12 31.2	− 0.7	15 46.6	− 0.2
20	P.	.	7 59 42.26	− 0.06	1 7.53	− 0.09	.	69 23 45.0	+ 1.2	15 44.8	− 2.1
22	E.	.	8 7 41.03	+ 0.04	1 7.47	+ 0.01	.	69 47 8.4	− 1.4	15 46.3	− 0.7
24	P.	.	8 15 37.26	− 0.15	1 7.20	− 0.10	.	70 11 55.5	− 1.7	15 45.8	− 1.4
26	E.	.	8 23 31.53	− 0.05	1 7.09	− 0.04	.	70 38 3.8	− 0.1	15 45.9	− 1.5
28	P.	.	8 31 23.39	− 0.01	1 6.86	− 0.10	.	71 5 26.8	− 0.9	15 45.9	− 1.7

S U N—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1886.			h m s	s	m s	s		° ′ ″	″	′ ″	″
July 29	W.	I	8 35 18.53	+ 0.09	....	....	N.	71 19 37.0	− 0.8	....	....
Aug. 2	W.	.	8 50 52.61	+ 0.08	1 6.42	− 0.11	.	72 19 19.6	0.0	15 46.9	− 1.3
3	E.	.	8 54 44.53	+ 0.01	1 6.42	− 0.02	.	72 34 57.8	− 1.1	15 47.4	− 1.0
4	E.	.	8 58 35.90	0.00	1 6.31	− 0.04	.	72 50 52.6	− 2.5	15 47.2	− 1.3
5	P.	.	9 2 26.72	+ 0.07	1 6.10	− 0.16	.	73 7 7.9	− 0.1	15 46.4	− 2.2
11	E.	.	9 25 18.46	+ 0.01	1 5.74	− 0.02	.	74 49 55.6	− 2.3	15 47.8	− 1.8
Sept. 1	S.	.	10 42 55.98	− 0.06	1 4.35	− 0.05	.	81 51 13.7	+ 0.1	15 52.6	− 1.2
3	E.	.	10 50 10.66	− 0.17	1 4.27	− 0.05	.	82 35 8.5	− 0.7	15 53.7	− 0.5
17	S.	.	11 40 32.43	− 0.04	1 3.96	− 0.10	.	87 53 35.2	− 0.3	15 56.4	− 1.4
20	E.	.	11 51 18.38	− 0.11	1 4.03	− 0.04	.	89 3 26.8	− 1.0	15 57.9	− 0.7
21	S.	.	11 54 53.94	− 0.03	1 4.01	− 0.07	.	89 26 47.5	− 1.5	15 57.2	− 1.6
28	E.	.	12 20 6.53	+ 0.02	1 4.24	− 0.02	.	92 10 35.2	− 1.2	15 59.1	− 1.6
30	P.	.	12 27 20.55	+ 0.01	1 4.21	− 0.13	.	92 57 18.2	− 1.3	16 0.8	− 0.5
Oct. 1	W.	.	12 30 57.98	+ 0.04	1 4.31	− 0.07	.	93 20 38.2	− 0.2	16 1.1	− 0.5
2	E.	.	12 34 35.63	+ 0.01	1 4.44	+ 0.02	.	93 43 53.8	− 1.4	16 0.7	− 1.1
6	E.	.	12 49 9.58	− 0.01	1 4.64	+ 0.01	.	95 16 31.7	− 0.5	16 2.2	− 0.8
7	S.	.	12 52 48.86	− 0.12	1 4.70	+ 0.01	.	95 39 32.3	+ 0.2	16 2.2	− 1.0
8	P.	.	12 56 28.82	+ 0.05	1 4.63	− 0.12	.	96 [illegible] 26.2	− 1.3	16 1.8	− 1.7
9	W.	.	13 0 9.01	+ 0.01	1 4.72	− 0.10	.	96 25 16.9	− 1.3	16 3.0	− 0.8
11	S.	.	13 7 30.84	+ 0.05	1 4.88	− 0.08	.	97 10 42.6	− 1.0	16 2.7	− 1.7
12	P.	.	13 11 12.42	+ 0.01	1 4.99	− 0.05	.	97 33 17.4	− 0.2	16 3.5	− 1.1
13	W.	.	13 14 54.56	+ 0.01	1 5.06	− 0.06	.	97 55 45.1	− 0.4	16 3.2	− 0.7
15	S.	.	13 22 20.37	− 0.07	1 5.23	− 0.05	.	98 40 18.7	− 2.3	16 3.9	− 1.6
22	S.	.	13 48 40.33	+ 0.02	1 5.91	− 0.01	.	101 12 12.6	− 1.6	16 6.4	− 0.9
Nov. 5	P.	.	14 43 5.84	+ 0.16	1 7.37	− 0.10	.	105 49 3.0	− 1.3	16 9.0	− 1.9
16	S.	.	15 27 42.22	− 0.02	1 8.72	− 0.05	.	108 51 17.8	− 0.7	16 11.8	− 1.6
19	P.	.	15 40 10.10	− 0.05	1 9.06	− 0.05	.	109 34 19.3	− 0.6	16 12.5	− 1.4
Dec. 8	W.	.	17 1 43.32	− 0.08	1 10.73	− 0.12	.	112 46 31.4	− 0.6	16 15.4	− 1.6
9	E.	.	17 6 6.76	− 0.08	1 10.92	+ 0.01	.	112 52 23.7	− 1.2	16 15.8	− 1.3
10	S.	.	17 10 30.67	− 0.02	1 10.84	− 0.13	.	112 57 49.9	− 0.7	16 15.7	− 1.5
14	W.	.	17 28 9.84	+ 0.02	1 11.09	− 0.07	.	113 14 59.2	+ 0.2	16 16.1	− 1.5
20	W.	.	17 54 46.55	+ 0.07	1 11.20	− 0.08	.	113 26 45.3	− 0.1	16 17.4	− 0.6
21	E.	.	17 59 12.96	− 0.14	1 11.42	+ 0.13	.	113 27 4.3	− 0.2	16 16.9	− 1.1
1887.		.					.				
Jan. 4	P.	.	19 1 14.20	+ 0.05	1 10.75	− 0.17	.	112 42 17.9	− 1.4	16 16.4	− 2.0
11	S.	.	19 31 48.27	+ 0.13	1 10.33	− 0.10	.	111 46 30.9	+ 0.1	16 16.7	− 1.4
12	P.	.	19 36 7.95	+ 0.01	1 10.25	− 0.10	.	111 36 46.5	− 2.4	16 16.5	− 1.6
18	W.	.	20 1 53.31	+ 0.08	1 9.67	− 0.12	.	110 30 0.9	+ 0.2	16 15.4	− 2.2
25	W.	.	20 31 23.42	− 0.04	1 8.91	− 0.13	.	108 54 33.5	+ 0.3	16 15.7	− 1.2
27	S.	.	20 39 42.02	− 0.13	1 8.80	− 0.02	.	108 24.1	....	....	....
31	S.	.	20 56.2	....	....	....	.	107 19 12.7	− 0.3	16 15.6	− 0.5
Feb. 14	W.	.	21 52.0	....	....	....	.	102 56 38.5	− 1.2	16 12.6	− 1.1
17	W.	.	22 3 40.32	+ 0.06	1 6.36	− 0.12	.	101 54 24.1	− 0.8	16 11.3	− 1.8
24	S.	.	22 30 27.67	+ 0.13	1 5.70	− 0.11	.	99 22 52.1	− 0.4	16 9.8	− 1.7
28	S.	.	22 45 32.53	+ 0.04	1 5.49	0.00	.	97 53 1.2	− 1.6	16 9.0	− 1.6
Mar. 1	P.	.	22 49 17.22	− 0.11	1 5.30	− 0.12	.	97 30 14.8	− 2.6	16 9.0	− 1.4
8	S.	.	23 15 17.79	+ 0.17	1 4.98	+ 0.01	.	94 48 21.8	− 2.0	16 8.2	− 0.4
11	E.	.	23 26 20.17	− 0.05	1 4.78	− 0.04	.	93 37 56.9	− 1.4	16 7.4	− 0.4
15	E.	.	23 40 59.47	− 0.07	1 4.62	− 0.03	.	92 3 27.7	− 1.5	16 6.1	− 0.7
16	S.	.	23 44 38.81	+ 0.02	1 4.52	− 0.10	.	91 39 48.3	+ 0.1	16 4.4	− 2.1
24	S.	II	0 13 47.39	− 0.04	....	....	.	88 30 21.0	− 0.1	16 2.8	− 1.5
25	E.	.	0 17 25.60	− 0.02	1 4.42	− 0.05	.	88 6 46.0	0.0	16 2.0	− 2.0
26	W.	II	0 21 3.84	+ 0.06	....	....	N.	87 43 12.7	− 0.7	....	....
30	W.	.	0 35 36.35	− 0.03	1 4.38	− 0.10	.	86 9 35.7	+ 0.1	16 1.8	− 0.8
Apr. 2	P.	.	0 46 31.36	− 0.02	1 4.40	− 0.13	.	85 0 2.7	− 2.1	16 0.7	− 1.1
4	E.	.	0 53 48.51	− 0.06	1 4.53	− 0.04	.	84 14 12.8	− 1.3	15 59.3	− 2.0
8	E.	.	1 8 25.01	0.00	1 4.71	+ 0.01	.	82 43 43.6	− 0.5	15 59.7	− 0.5
9	S.	.	1 12 4.69	+ 0.02	1 4.64	− 0.09	.	82 21 21.9	− 2.3	15 58.1	− 1.8
11	W.	.	1 19 24.96	+ 0.14	1 4.68	− 0.13	.	81 37 5.4	− 2.4	15 57.5	− 1.9

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semidiameter.	Corr'n to Am. Eph.
1887.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Apr. 12	E.	II	1 23 5.29	− 0.05	....	....	N.	81 15 10.8	− 1.1	....	....
20	W.	.	1 52 42.62	+ 0.08	1 5.19	− 0.10	.	78 25 22.6	− 1.9	15 55.7	− 1.2
21	S.	.	1 56 26.56	+ 0.04	1 5.36	− 0.01	.	78 4 57.9	− 0.8	15 54.8	− 1.8
26	P.	II	2 15 13.31	+ 0.04	....	....	.	76 25 50.3	− 0.4	15 53.3	− 2.1
May 12	P.	.	3 16 44.96	− 0.07	1 6.80	− 0.17	.	71 49 22.7	− 1.2	15 49.7	− 2.1
14	E.	.	3 24 36.69	− 0.02	1 7.14	+ 0.01	.	71 19 52.1	− 2.5	15 50.8	− 0.6
25	E.	.	4 8 31.90	− 0.09	1 7.94	− 0.03	.	69 1 3.7	− 1.4	15 48.2	− 1.2
26	S.	.	4 12 34.82	+ 0.09	1 7.93	− 0.11	.	68 50 32.8	− 0.1	15 47.4	− 1.8
June 16	E.	.	5 38 58.18	− 0.12	1 8.88	− 0.08	.	66 38 10.8	− 0.7	15 45.0	− 1.8
17	S.	.	5 43 7.76	− 0.08	1 8.94	− 0.03	.	66 36 19.4	+ 0.9	15 45.3	− 1.4
18	P.	.	5 47 17.40	− 0.05	1 8.86	− 0.11	.	66 34 49.3	− 1.0	15 45.0	− 1.6
21	S.	.	5 59 46.49	− 0.03	1 8.90	− 0.08	.	66 32 54.0	− 0.3	15 44.5	− 1.9
24	E.	.	6 12 15.27	− 0.05	1 8.92	− 0.03	.	66 34 41.1	− 0.5	15 45.5	− 0.8
28	S.	.	6 28 52.07	+ 0.01	1 8.88	+ 0.01	.	66 42 51.1	+ 0.4	15 45.0	− 1.2
30	S.	.	6 37 9.25	− 0.02	1 8.74	− 0.07	.	66 49 23.0	+ 0.3	15 44.1	− 2.1
July 2	S.	.	6 45 25.48	+ 0.01	1 8.68	− 0.06	.	66 57 32.0	− 0.1	15 44.7	− 1.5
11	E.	.	7 22 22.26	+ 0.07	1 8.27	− 0.02	.	67 53 54.3	+ 0.4	15 45.0	− 1.3
12	S.	.	7 26 26.66	+ 0.10	1 8.12	− 0.11	.	68 2 5.5	− 0.4	15 45.2	− 1.2
13	P.	.	7 30 30.45	− 0.03	1 8.02	− 0.14	.	68 10 40.8	+ 0.3	15 44.7	− 1.7
14	W.	.	7 34 34.10	+ 0.15	1 7.93	− 0.16	.	68 19 36.9	− 0.6	15 46.3	− 0.1
16	S.	.	7 42 39.55	+ 0.07	1 7.81	− 0.14	.	68 38 38.0	0.0	15 44.5	− 2.0
18	W.	.	7 50 43.05	+ 0.05	1 7.69	− 0.11	.	68 59 6.0	+ 0.4	15 45.4	− 1.2
30	W.	.	8 38 16.39	+ 0.05	1 6.68	− 0.13	.	71 30 32.1	− 0.8	15 46.6	− 1.7
Aug. 11	W.	.	9 24 22.42	+ 0.04	1 5.67	− 0.11	N.	74 45 31.8	− 1.7	....	....
19	W.	.	9 54 22.47	+ 0.03	1 5.06	− 0.11	.	77 15 38.3	− 0.4	15 49.6	− 1.3
20	W.	.	9 58 4.48	− 0.13	1 5.06	− 0.04	.	77 35 21.4	− 0.9	15 50.4	− 0.7
25	W.	.	10 16 30.97	+ 0.03	1 4.74	− 0.03	.	79 16.8	....	....	....
29	W.	.	10 31 8.37	+ 0.05	1 4.45	− 0.10	.	80 41 5.0	− 1.1	15 51.6	− 1.4
31	W.	.	10 38 24.59	− 0.19	1 4.40	− 0.05	.	81 24 8.8	+ 0.7	15 52.1	− 1.4
Sept. 5	S.	.	10 56 30.68	− 0.04	1 4.17	− 0.08	.	83 14 1.6	− 0.4	15 52.8	− 1.9
6	W.	.	11 0.1	....	....	....	.	83 36 22.1	0.0	15 54.5	− 0.4
8	S.	.	11 7 19.40	− 0.15	1 4.15	− 0.02	.	84 21 19.5	− 1.5	15 53.6	− 1.8
9	W.	.	11 10.9	....	....	....	.	84 43 57.9	− 1.4	15 54.7	− 0.9
Oct. 6	P.	.	12 48 14.85	+ 0.04	1 4.48	− 0.14	.	95 10 46.7	− 0.9	16 1.4	− 1.5
7	W.	.	12 51 54.15	+ 0.07	1 4.61	− 0.07	.	95 33 47.1	+ 0.2	16 1.5	− 1.7
12	S.	.	13 10 17.26	− 0.05	1 4.94	− 0.07	.	97 27 40.2	+ 0.3	16 3.2	− 1.3
13	P.	.	13 13 59.44	− 0.03	1 5.00	− 0.09	.	97 50 10.4	− 1.2	16 2.8	− 2.0
14	P.	.	13 17 42.08	− 0.09	1 5.10	− 0.07	S.	98 12 33.8	+ 0.6	....	....
15	S.	.	13 21 25.49	+ 0.07	1 5.18	− 0.07	.	98 34 50.7	− 0.7	16 4.4	− 1.0
17	P.	.	13 28 53.60	− 0.02	1 5.28	− 0.14	.	99 19 2.3	− 1.2	16 4.0	− 1.9
21	E.	.	13 43 57.34	+ 0.03	1 5.75	− 0.04	.	100 45 46.4	− 0.5	16 6.8	− 0.2
22	S.	.	13 47 44.92	+ 0.10	1 5.82	− 0.07	.	101 7 3.1	− 1.6	16 5.9	− 1.4
Nov. 2	P.	.	14 30 14.39	+ 0.01	1 6.98	− 0.10	.	104 48 46.2	0.0	16 8.0	− 2.1
3	W.	.	14 34 10.80	+ 0.01	1 7.11	− 0.08	.	105 7 36.0	− 0.6	16 9.4	− 1.0
4	E.	.	14 38 8.01	− 0.02	1 7.26	− 0.05	.	105 26 11.4	− 0.9	16 9.9	− 0.7
5	S.	.	14 42 6.09	− 0.01	1 7.38	− 0.05	.	105 44 32.7	− 0.1	16 10.1	− 0.7
12	E.	II	15 10 16.69	− 0.06	....	....	.	107 45.3	....	....	....
29	S.	.	16 21 31.98	− 0.13	1 7.97	− 0.17	.	111 31 25.3	− 0.4	16 13.9	− 1.8
30	P.	.	16 25 50.36	+ 0.02	1 10.17	− 0.06	.	111 41 18.4	+ 0.1	16 13.9	− 2.0
Dec. 1	W.	.	16 30 9.18	− 0.05	1 10.26	− 0.06	.	111 50 44.9	− 1.0	16 15.5	− 0.5
5	E.	.	16 47 30.96	− 0.12	1 10.60	− 0.03	.	112 24 22.7	+ 0.4	16 15.1	− 1.5
6	P.	.	16 51 52.98	− 0.03	1 10.58	− 0.12	.	112 31 41.1	− 0.6	16 14.5	− 2.2
7	S.	.	16 56 15.38	− 0.11	1 10.69	− 0.08	.	112 38 34.5	− 0.2	16 16.3	− 0.5
9	S.	.	17 5 2.03	+ 0.06	1 10.77	− 0.13	.	112 50 59.9	− 0.5	16 15.6	− 1.4
13	P.	.	17 22 40.01	− 0.06	1 10.88	− 0.23	.	113 10 26.5	− 0.4	16 16.1	− 1.3
16	E.	.	17 35 57.02	− 0.13	1 11.16	− 0.05	.	113 20 12.6	+ 0.9	16 17.0	− 0.7
19	P.	.	17 49 16.06	− 0.03	1 11.14	− 0.13	.	113 25 44.4	+ 0.2	16 15.8	− 2.2
22	W.	.	18 2 35.87	− 0.02	1 11.16	− 0.14	.	113 27 3.0	+ 0.8	16 17.6	− 0.6
23	P.	.	18 7 2.46	− 0.05	1 11.12	− 0.18	.	113 26 30.8	− 0.8	16 17.2	− 1.0

S U N—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1887.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Dec. 24	S.	.	18 11 29.08	− 0.01	1 11.20	− 0.09	.	113 25 32.6	0.0	16 16.7	− 1.6
29	W.	.	18 33 40.10	− 0.07	1 11.14	− 0.05	.	113 13 33.0	− 1.4	16 16.8	− 1.6
30	S.	.	18 38 5.83	+ 0.07	1 11.05	− 0.11	.	113 9 46.7	+ 0.1	16 16.9	− 1.5
1888.											
Jan. 11	S.	I	19 30 45.54	− 0.01	....	....	S.	111 48 48.7	+ 1.2	....	....
12	W.	.	19 35 5.64	− 0.05	1 10.20	− 0.18	.	111 39 10.0	− 1.5	16 17.7	− 0.4
14	S.	.	19 43 44.09	− 0.01	1 10.16	− 0.04	.	111 18 42.6	− 1.6	16 16.6	− 1.4
16	W.	II	19 52 19.87	+ 0.02	....	....	S.	110 56 38.0	+ 0.2	....	....
19	W.	.	20 5 7.96	− 0.17	1 9.68	− 0.04	.	110 20 32.0	+ 0.9	16 16.7	− 0.9
21	P.	.	20 13 36.30	− 0.21	1 9.40	− 0.11	.	109 54 31.3	+ 0.3	16 16.2	− 1.2
24	P.	.	20 26 13.02	− 0.12	1 9.04	− 0.15	.	109 12.8	....	....	....
28	W.	.	20 42 50.68	+ 0.05	1 8.58	− 0.17	.	108 12 11.0	+ 0.9	16 15.3	− 1.3
Feb. 18	P.	.	22 6 37.66	+ 0.02	1 6.26	− 0.14	.	101 38 16.0	− 0.6	16 10.6	− 2.3
Mar. 3	E.	.	22 59 35.04	− 0.02	1 5.20	− 0.03	.	96 26 56.9	− 0.4	16 9.5	− 0.2
6	W.	.	23 10 42.82	0.00	1 4.96	− 0.08	.	95 17 20.5	− 0.2	16 7.4	− 1.5
7	E.	.	23 14 24.84	+ 0.22	1 4.88	− 0.11	.	94 53 57.4	− 2.0	16 6.9	− 1.7
8	S.	.	23 18 6.10	+ 0.04	1 4.84	− 0.09	.	94 30 34.7	+ 0.4	16 6.3	− 2.1
9	P.	.	23 21 47.16	0.00	1 4.76	− 0.12	.	94 7 5.3	− 0.5	16 5.8	− 2.3
10	W.	.	23 25 28.07	+ 0.14	1 4.68	− 0.15	.	93 43 33.4	− 0.7	16 6.8	− 1.0
15	E.	.	23 43 47.45	− 0.01	1 4.56	− 0.07	.	91 45 21.8	− 0.4	16 5.8	− 0.7
19	E.	.	23 58 22.88	− 0.02	1 4.51	− 0.03	.	90 10 31.1	− 1.5	16 5.3	− 0.1
June 18	E.	.	5 50 27.28	− 0.04	1 8.94	− 0.03	.	66 33 58.5	+ 1.5	15 44.9	− 1.7
July 25	E.	.	8 21 36.39	− 0.05	1 7.08	− 0.09	.	70 31 35.7	+ 2.7	15 45.7	− 1.6
26	P.	.	8 25 32.73	− 0.05	1 6.96	− 0.13	.	70 44 56.9	+ 1.3	15 44.8	− 2.6
Aug. 2	W.	.	8 52 50.71	− 0.02	1 6.42	− 0.06	.	72 27 15.4	+ 1.3	15 46.9	− 1.3
7	P.	.	9 12 2.95	− 0.09	1 5.93	− 0.11	.	73 48 59.9	+ 0.6	15 47.0	− 1.9
8	W.	.	9 15 51.81	+ 0.06	1 5.86	− 0.10	.	74 6 11.0	+ 2.6	15 47.6	− 1.5
9	E.	.	9 19 39.73	− 0.14	1 5.93	+ 0.06	.	74 23 35.9	+ 3.0	15 47.7	− 1.6
10	P.	.	9 23 27.36	− 0.04	1 5.60	− 0.19	.	74 41 12.8	+ 0.3	15 48.3	− 1.1
14	W.	.	9 38 31.80	+ 0.02	1 5.42	− 0.05	.	75 54 13.6	− 0.6	15 48.8	− 1.3
15	S.	.	9 42 16.65	+ 0.17	1 5.40	0.00	.	76 13 4.0	+ 0.1	15 48.6	− 1.7
16	W.	.	9 46 0.66	+ 0.01	1 5.18	− 0.15	.	76 32 9.3	+ 2.6	15 50.4	− 0.1
24	S.	.	10 15 36.10	− 0.04	1 4.72	− 0.07	.	79 11 42.9	+ 0.7	15 50.3	− 1.8
25	E.	.	10 19 16.01	− 0.09	1 4.78	+ 0.05	.	79 32 29.4	+ 0.8	15 51.0	− 1.3
28	S.	.	10 30 13.74	− 0.01	1 4.52	− 0.04	.	80 35 47.7	+ 0.9	15 50.7	− 2.3
30	S.	.	10 37 30.55	+ 0.04	1 4.35	− 0.11	.	81 18 47.2	+ 2.3	15 51.9	− 1.5
Sept. 12	S.	.	11 24 25.59	− 0.06	1 4.06	− 0.02	.	86 9 47.5	+ 0.8	15 55.3	− 1.3
13	P.	.	11 28 1.04	− 0.03	1 3.94	− 0.13	.	86 32 48.4	+ 0.6	15 55.2	− 1.6
14	W.	.	11 31 36.41	+ 0.01	1 4.00	− 0.06	.	86 55 54.3	+ 1.7	15 56.6	− 0.5
20	W.	.	11 53 7.96	− 0.07	1 3.96	− 0.12	.	89 15 22.0	+ 1.8	15 57.3	− 1.4
21	S.	.	11 56 43.46	0.00	1 4.00	− 0.09	.	89 38 41.8	+ 0.1	15 57.8	− 1.2
26	W.	.	12 14 42.68	0.00	1 4.10	− 0.11	.	91 35 40.9	+ 2.0	16 0.0	− 0.3
Oct. 10	S.	.	13 5 41.73	+ 0.08	1 4.95	+ 0.03	.	96 59 36.9	+ 2.7	16 2.9	− 1.3
17	W.	.	13 31 42.06	+ 0.02	1 5.38	− 0.11	.	99 35 38.9	+ 2.7	16 5.1	− 1.1
29	S.	.	14 17 31.68	− 0.04	1 6.70	− 0.01	.	103 45 56.6	+ 0.8	16 8.2	− 1.1
31	E.	.	14 25 20.40	+ 0.01	1 6.95	+ 0.02	.	104 24 56.2	+ 0.8	16 8.8	− 1.0
Nov. 6	W.	.	14 49 6.20	+ 0.12	1 7.53	− 0.11	.	106 16 7.9	− 0.1	16 11.0	− 0.2
20	W.	.	15 46.5	....	1 9.20	− 0.08	.	109 54 49.5	− 0.5	16 14.8	+ 0.5
22	E.	.	15 54 54.03	− 0.04	1 9.48	− 0.02	.	110 20 41.4	+ 2.4	16 14.2	− 0.5
30	S.	.	16 29 4.96	− 0.14	1 10.16	− 0.13	.	111 48 29.0	− 0.2	16 14.9	− 1.1
Dec. 5	E.	.	16 50 49.03	+ 0.01	1 10.68	0.00	.	112 29 59.4	− 0.2	16 16.4	− 0.3
7	W.	.	16 59 34.49	+ 0.08	1 10.72	− 0.10	.	112 43 34.2	+ 1.5	16 16.6	− 0.3
12	S.	.	17 21 35.18	− 0.14	1 11.02	− 0.08	.	113 9 34.4	+ 2.3	16 15.2	− 2.3
13	W.	.	17 26 0.53	− 0.01	1 10.98	− 0.16	.	113 13 22.2	+ 0.7	16 16.2	− 1.4
14	S.	.	17 30 25.97	− 0.06	1 11.10	− 0.08	.	113 16 43.6	+ 0.6	16 15.5	− 2.2
15	W.	.	17 34 51.97	+ 0.21	1 11.12	− 0.09	.	113 19 36.7	+ 0.1	16 16.0	− 1.8
18	S.	.	17 48 10.06	− 0.01	1 11.14	− 0.13	.	113 25 32.0	+ 3.1	16 16.2	− 1.8
20	E.	.	17 57 2.86	− 0.08	1 11.20	− 0.09	.	113 27 3.4	+ 0.7	16 18.2	+ 0.1
21	W.	.	18 1 29.35	− 0.13	1 11.30	0.00	.	113 27 9.2	+ 1.9	16 15.9	− 2.3

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1888.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Dec. 22	S.	.	18 5 55.94	− 0.13	1 11.26	− 0.04	.	113 26 45.6	+ 2.0	16 16.4	− 1.8
24	E.	.	18 14 49.17	− 0.03	1 11.26	− 0.03	.	113 24 32.7	+ 1.4	16 18.0	− 0.3
28	E.	.	18 32 34.36	− 0.06	1 11.34	+ 0.14	.	113 14 27.5	− 0.7	16 16.7	− 1.7
29	W.	.	18 37 0.19	− 0.12	1 11.09	− 0.08	.	113 10 49.2	+ 1.9	16 18.0	− 0.4
1889.											
Jan. 1	S.	.	18 54 40.99	− 0.12	1 10.95	− 0.05	.	112 51 28.9	+ 2.8	16 16.2	− 2.2
3	E.	.	18 59 5.34	− 0.11	1 10.90	− 0.05	.	112 45 27.3	+ 0.2	16 17.3	− 1.1
4	W.	.	19 3 29.27	0.00	1 10.86	− 0.04	.	112 39 3.6	+ 2.6	16 16.2	− 2.2
7	W.	.	19 16 38.36	+ 0.05	1 10.64	− 0.07	.	112 17 3.7	+ 1.7	16 17.7	− 0.6
8	E.	.	19 21 0.17	− 0.07	1 10.59	− 0.05	.	112 8 49.1	− 0.4	16 16.6	− 1.7
10	W.	.	19 29 42.28	− 0.10	1 10.40	− 0.08	.	111 51 6.6	0.0	16 17.1	− 1.1
18	W.	.	20 4 5.09	+ 0.02	1 9.62	− 0.13	.	110 23 39.8	+ 0.7	16 15.6	− 2.1
19	S.	.	20 8 19.75	+ 0.01	1 9.52	− 0.13	.	110 10 56.9	+ 0.8	16 16.1	− 1.5
22	S.	.	20 20 59.45	+ 0.18	1 9.20	− 0.12	..	109 30 33.0	+ 0.8	16 14.4	− 2.9
23	E.	.	20 25 10.98	+ 0.05	1 9.15	− 0.06	.	109 16 20.2	− 0.3	16 16.6	− 0.5
30	S.	.	20 54 10.49	+ 0.05	1 8.39	− 0.03	.	107 27 25.5	+ 2.1	16 14.4	− 1.8
Feb. 1	E.	.	21 2 20.27	+ 0.14	1 8.14	− 0.05	.	106 53 25.4	+ 2.8	16 15.5	− 0.4
2	S.	.	21 6 23.64	− 0.10	1 7.97	− 0.11	.	106 35 55.0	− 0.5	16 14.2	− 1.6
6	W.	.	21 22 29.84	− 0.01	1 7.54	− 0.08	.	105 23 18.1	− 0.1	16 14.5	− 0.6
7	S.	.	21 26 29.18	− 0.13	1 7.40	− 0.10	.	105 4 30.6	+ 1.8	16 13.3	− 1.7
12	W.	.	21 46 14.57	+ 0.09	1 6.84	− 0.11	.	103 26 42.7	− 0.1	16 14.2	+ 0.2
13	E.	.	21 50 9.17	− 0.01	1 6.88	+ 0.03	.	103 6 27.1	− 1.1	16 13.3	− 0.6
20	S.	.	22 17 11.79	− 0.13	1 6.17	+ 0.04	.	100 39 9.2	+ 0.7	16 11.2	− 1.2
25	E.	.	22 36 11.63	− 0.05	1 5.63	− 0.06	.	98 49 4.7	+ 0.3	16 10.7	− 0.5
Mar. 6	E.	.	23 9 49.44	− 0.08	1 5.00	− 0.04	.	95 22 57.1	− 1.1	16 8.0	− 1.0
9	E.	.	23 20 53.98	− 0.08	1 4.94	+ 0.05	.	94 12 45.4	0.0	16 8.8	+ 0.6
11	W.	.	23 28 15.12	− 0.10	1 4.74	− 0.06	.	93 25 41.9	+ 0.8	16 6.2	− 1.5
12	S.	.	23 31 55.15	− 0.16	1 4.72	− 0.03	.	93 2 6.7	+ 1.3	16 5.1	− 2.3
13	E.	.	23 35 35.13	+ 0.02	1 4.66	− 0.05	.	92 38 27.7	0.0	16 5.4	− 1.8
23	W.	.	0 12 2.16	+ 0.04	1 4.36	− 0.12	.	88 41 44.1	+ 0.5	16 1.8	− 2.6
26	W.	.	0 22 56.46	+ 0.05	1 4.34	− 0.13	.	87 31 4.6	+ 1.0	16 3.0	− 0.6
27	E.	II	0 26 34.41	− 0.12	....	....	.	87 7 34.7	− 1.0	16 1.5	− 1.8
29	W.	.	0 33 50.83	− 0.05	1 4.36	− 0.11	.	86 20 51.3	+ 0.9	16 1.1	− 1.6
30	E.	.	0 37 29.05	− 0.11	1 4.48	0.00	.	85 57 33.3	− 0.3	16 1.7	− 0.7
Apr. 9	W.	.	1 13 59.14	− 0.04	1 4.60	− 0.15	.	82 9 48.6	+ 0.7	15 58.5	− 1.2
10	S.	.	1 17 39.29	+ 0.01	1 4.72	− 0.07	.	81 47 40.2	+ 0.7	15 57.2	− 2.2
19	W.	.	1 50 54.55	+ 0.04	1 5.10	− 0.16	.	78 35 18.0	+ 0.4	15 54.9	− 2.1
22	W.	.	2 2 6.74	− 0.04	1 5.40	− 0.05	.	77 34 21.2	+ 1.3	15 55.0	− 1.3
23	E.	.	2 5 51.83	+ 0.02	1 5.50	− 0.01	.	77 14 25.1	+ 0.6	15 54.1	− 1.9
May 4	W.	.	2 47 40.97	− 0.03	1 6.26	− 0.11	.	73 50 10.1	+ 0.7	15 52.5	− 0.9
6	S.	.	2 55 24.15	− 0.02	1 6.45	− 0.07	.	73 16 20.1	+ 2.4	15 52.5	− 0.4
7	W.	.	2 59 16.70	+ 0.11	1 6.47	− 0.14	.	72 59 47.3	+ 0.4	15 51.8	− 0.9
10	W.	.	3 11.0	....	....	....	.	72 11 58.2	+ 0.4	15 50.2	− 1.9
11	E.	.	3 14 51.76	− 0.05	1 6.82	− 0.11	.	71 56 37.0	0.0	15 50.4	− 1.5
17	E.	.	3 38 31.60	− 0.04	1 7.41	− 0.01	.	70 31 4.5	+ 0.9	15 48.4	− 2.3
18	S.	.	3 42 30.17	− 0.11	1 7.46	− 0.04	.	70 17 56.6	+ 0.8	15 50.0	− 0.5
29	E.	.	4 26 51.06	− 0.04	1 8.28	+ 0.01	.	68 16 23.7	+ 0.2	15 48.2	− 0.4
June 6	S.	.	4 59 40.62	+ 0.06	1 8.58	− 0.11	.	67 16 18.8	+ 1.8	15 46.2	− 1.4
20	S.	.	5 57 44.69	− 0.02	1 8.88	− 0.09	N.	66 32 54.4	+ 0.4	....	....
27	E.	.	6 26 50.61	+ 0.01	1 8.84	− 0.04	.	66 41 27.0	+ 0.7	15 44.8	− 1.4
July 8	S.	.	7 12 13.59	+ 0.05	1 8.36	− 0.08	.	67 35 7.4	+ 0.7	15 45.0	− 1.2
9	E.	.	7 16 18.95	+ 0.02	1 8.34	− 0.04	S.	67 42 22.4	+ 0.7	....	....
10	S.	II	7 20 23.89	0.00	....	....	.	67 50 1.2	+ 1.3	15 44.5	− 1.8
12	S.	.	7 28 32.55	+ 0.08	1 8.14	− 0.06	.	68 6.4	....	....	....
Aug. 17	H.	.	9 48 49.82	− 0.02	1 5.22	− 0.05	.	76 46 40.1	+ 1.2	15 48.6	− 2.1
21	S.	.	10 3 40.22	− 0.01	1 4.84	− 0.15	.	78 5 33.0	+ 0.8	15 49.0	− 2.4
Nov. 1	E.	.	14 28 19.79	− 0.09	1 6.96	− 0.05	.	104 39 35.7	+ 0.1	16 8.3	− 1.7
4	E.	.	14 40 10.44	− 0.03	1 7.38	+ 0.01	.	105 35 45.5	+ 0.4	16 9.0	− 1.7
6	H.	I	14 48 8.36	+ 0.10	....	....	.	106 11.9	....	....	....

S U N—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1889.			h m s	s	m s	s		° ′ ″	″	′ ″	″
Nov. 7	E.	.	14 52 8.28	− 0.12	1 7.70	− 0.03	.	106 29 34.6	+ 0.5	16 10.5	− 0.9
16	E.	.	15 28 48.16	− 0.08	1 8.87	+ 0.08	.	108 55 18.7	− 0.5	16 12.3	− 1.1
30	H.	.	16 28 3.13	− 0.05	1 10.16	− 0.11	.	111 46.3	....	....	....
Dec. 2	H.	.	16 36 42.26	− 0.13	1 10.44	− 0.01	.	112 4 22.7	+ 0.1	16 15.1	− 1.1
6	E.	.	16 54 7.68	− 0.04	1 10.70	− 0.04	.	112 35 23.8	+ 1.0	16 16.0	− 0.8
7	H.	.	16 58 30.34	− 0.02	1 10.78	− 0.03	.	112 42 1.1	− 0.9	16 15.9	− 1.0
12	E.	.	17 20 30.06	− 0.16	1 11.10	+ 0.01	.	113 8 34.8	+ 1.6	16 16.5	− 0.9
13	H.	.	17 24 55.38	+ 0.03	1 11.04	− 0.09	.	113 12 29.2	− 0.1	16 16.5	− 1.0
21	H.	.	18 0 24.96	− 0.03	1 11.20	− 0.10	.	113 27 11.8	+ 0.4	16 16.8	− 1.3
23	H.	.	18 9 18.24	− 0.23	1 11.22	− 0.08	.	113 26 9.8	0.0	16 17.0	− 1.2
24	E.	.	18 13 45.10	− 0.05	1 11.28	− 0.01	.	113 24 56.1	− 0.4	16 16.2	− 2.0
26	H.	.	18 22.6	....	....	....	.	113 21 5.7	+ 0.8	16 18.2	− 0.1
27	S.	.	18 27 4.43	− 0.09	1 11.17	− 0.07	.	113 18 26.4	− 0.4	16 16.6	− 1.8
28	H.	.	18 31 30.62	0.00	1 11.15	− 0.06	.	113 15 20.1	− 0.5	16 16.6	− 1.8
1890.											
Mar. 26	E.	.	0 22 3.82	− 0.06	1 4.40	− 0.07	.	87 36 44.1	+ 1.4	16 2.8	− 0.9
Apr. 2	S.	.	0 47 31.15	− 0.04	1 4.45	− 0.08	.	84 53 45.5	− 0.1	16 0.0	− 1.8
3	H.	.	0 51 9.64	− 0.08	1 4.58	− 0.07	N.	84 30 45.1	− 3.0	....	....
5	S.	.	0 58 27.20	− 0.05	1 4.54	− 0.07	.	83 45 8.8	− 2.1	15 59.0	− 1.9
11	S.	.	1 20 25.02	− 0.17	1 4.77	− 0.05	.	81 31 1.5	− 2.6	15 58.2	− 1.0
12	H.	II	1 24 5.67	− 0.18	....	....	.	81 9.2	....	....	....
18	H.	.	1 46 7.02	− 0.17	1 5.10	− 0.08	.	79 1 1.4	− 0.8	15 56.6	− 0.8
19	S.	.	1 50 0.41	− 0.02	1 5.21	− 0.03	.	78 40 15.7	− 0.7	15 56.4	− 0.7
21	H.	.	1 57 28.04	− 0.15	1 5.28	− 0.08	.	77 59 16.7	− 2.1	15 54.8	− 1.8
28	S.	.	2 23 49.49	− 0.07	1 5.80	− 0.06	.	75 42 28.2	− 0.4	15 53.2	− 1.7
29	E.	.	2 27 37.42	+ 0.03	1 5.91	− 0.03	.	75 23 47.4	− 2.4	15 53.8	− 0.8
30	H.	.	2 31 25.72	− 0.02	1 5.94	− 0.08	N.	75 5 25.7	− 0.1	....	....
May 1	E.	.	2 35 14.52	− 0.09	1 6.10	0.00	.	74 47 15.0	− 1.1	15 51.9	− 2.3
2	S.	.	2 39 3.93	− 0.08	1 6.10	− 0.08	.	74 29 20.8	− 1.0	15 53.0	− 0.9
12	S.	.	3 17 49.13	− 0.10	1 6.91	− 0.08	.	71 45 13.9	+ 0.8	15 49.8	− 1.9
17	E.	.	3 37 33.81	− 0.09	1 7.51	+ 0.12	.	70 34 15.3	− 0.2	15 49.1	− 1.6
28	H.	.	4 21 47.94	− 0.07	1 8.18	− 0.01	.	68 27 49.0	− 1.8	15 48.0	− 0.9
June 2	H.	.	4 42 12.90	− 0.08	1 8.46	− 0.03	.	67 45.0	....	....	....
4	H.	.	4 50 25.59	− 0.12	1 8.50	− 0.09	.	67 30 35.6	+ 0.5	15 45.9	− 2.0
12	E.	.	5 23 29.24	− 0.05	1 8.80	− 0.08	.	66 48 43.6	+ 0.7	15 45.4	− 1.6
19	E.	.	5 52 35.13	− 0.22	1 8.99	+ 0.02	.	66 33 25.1	− 0.8	15 45.5	− 1.0
20	S.	.	5 56 45.10	+ 0.06	1 8.95	− 0.02	.	66 32 53.4	− 0.6	15 45.6	− 0.9
27	E.	.	6 25 50.86	+ 0.02	1 8.84	− 0.06	N.	66 40 46.5	+ 1.2	....	....
28	S.	.	6 29 59.78	+ 0.12	1 8.78	− 0.09	.	66 43 32.5	+ 1.2	15 45.1	− 1.1
July 1	S.	.	6 42 24.70	− 0.08	1 8.68	− 0.09	.	66 54 15.3	− 0.9	15 45.0	− 1.2
5	H.	.	6 58 54.38	− 0.12	1 8.56	− 0.04	.	67 14 12.9	− 1.3	15 44.1	− 2.1
7	E.	.	7 7 7.41	− 0.02	1 8.41	− 0.09	.	67 26 35.8	0.0	15 44.9	− 1.3
8	S.	.	7 11 13.42	+ 0.05	1 8.34	− 0.11	.	67 33 22.8	+ 1.0	15 44.9	− 1.3
9	H.	.	7 15 18.82	− 0 10	1 8.30	− 0.09	.	67 40 30.8	− 0.3	15 46.2	0.0
10	E.	.	7 19 24.04	− 0.03	1 8.24	− 0.09	.	67 48 3.9	+ 0.3	15 45.1	− 1.2
11	S.	.	7 23 28.84	+ 0.03	1 8.22	− 0.05	.	67 55 59.3	+ 0.3	15 43.8	− 2.5
19	H.	.	7 55 49.72	− 0.11	1 7.72	+ 0.02	.	69 12 44.5	− 0.4	15 45.3	− 1.5
21	E.	.	8 3 49.76	− 0.04	1 7.50	− 0.04	.	69 35 32.4	+ 0.9	15 45.6	− 1.3
22	S.	.	8 7 48.86	− 0.05	1 7.44	− 0.02	.	69 47 25.7	0.0	15 45.8	− 1.2
30	H.	.	8 39 19.83	− 0.10	1 6.73	− 0.06	.	71 34 24.6	− 1.5	15 47.9	0.0
31	E.	.	8 43 13.54	− 0.01	1 6.68	− 0.02	.	71 49 13.5	+ 0.6	15 46.6	− 1.4
Aug. 1	H.	.	8 47 6.47	− 0.10	1 6.58	− 0.04	.	72 4 16.1	− 1.5	15 46.8	− 1.3
2	E.	.	8 50 58.99	0.00	1 6.49	− 0.04	.	72 19 39.1	− 0.6	15 46.4	− 1.8
7	E.	.	9 10 12.12	− 0.07	1 5.96	− 0.14	.	73 40 42.2	− 1.3	15 47.4	− 1.5
12	E.	I	9 29 11.15	0.00	....	....	N.	75 8 23.8	+ 0.9	....	....
14	E.	.	9 36 42.84	− 0.05	1 5.46	− 0.05	.	75 45 8.7	− 0.3	15 48.2	− 1.8
15	H.	.	9 40 27.86	− 0.10	1 5.40	− 0.03	.	76 3 50.5	− 2.2	15 50.2	0.0
16	E.	.	9 44 12.41	− 0.09	1 5.28	− 0.08	.	76 22 48.9	− 0.9	15 49.6	− 0.8
30	E.	.	10 35 45.90	− 0.09	1 4.47	− 0.02	.	81 8 21.3	− 1.0	15 51.8	− 1.5

SUN—Continued.

Date.		Observer.	Limb.	Apparent Right Ascension of Center.			Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.		Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.			Corr'n to Am. Eph.	Vertical Semi-diameter.		Corr'n to Am. Eph.
1890.				h	m	s	s	m	s	s		°	'	"	"	'	"	"
Sept.	1	S.	.	10	43	1.58	− 0.03	1	4.36	− 0.03	.	81	51	42.8	− 2.5	15	52.8	− 1.0
	3	H.	.	10	50	15.98	− 0.13	1	4.22	− 0.09	.	82	35	40.4	+ 0.5	15	52.1	− 2.1
	4	E.	.	10	53	52.98	− 0.01	1	4.22	− 0.05	.	82	57	48.4	+ 0.1	15	53.2	− 1.3
	5	S.	.	10	57	29.57	− 0.07	1	4.14	− 0.10	.	83	20	3.6	− 0.1	15	53.2	− 1.5
	17	H.	.	11	40	38.58	− 0.10	1	4.02	− 0.03	.	87	54	13.8	− 0.6	15	55.8	− 1.9
	18	H.	.	11	44	13.96	− 0.08	1	4.01	− 0.04	.	88	17	30.6	+ 0.2	15	57.4	− 0.6
	19	S.	.	11	47	49.39	− 0.03	1	3.98	− 0.05	.	88	40	47.7	− 0.9	15	56.2	− 2.1
	24	H.	.	12	5	47.12	− 0.11	1	4.12	− 0.02	.	90	37	39.9	− 0.1	15	58.6	− 1.0
Oct.	8	H.	.	12	56	33.34	- 0.05	1	4.74	− 0.01	.	96	[illegible]	57.5	− 1.4	16	2.1	− 1.4
	15	E.	.	13	22	25.82	− 0.21	1	5.41	+ 0.14	.	98	41.0	....	....		....	....
	17	E.	.	13	29	54.42	− 0.06	1	5.42	− 0.02	.	99	25	3.9	− 0.9	16	5.1	− 0.8
	18	S.	.	13	33	39.74	+ 0.16	1	5.46	− 0.07	.	99	46	56.0	− 0.4	16	4.2	− 2.0
	31	S.	.	14	23	26.67	0.00	1	6.82	− 0.06	.	104	15	39.4	+ 1.0	16	8.3	− 1.3
Nov.	15	H.	.	15	23	40.48	0.00	1	8.62	− 0.03	.	108	36	45.0	− 1.0	16	11.8	− 1.3
	19	H.	.	15	40	16.20	− 0.05	1	9.04	− 0.07	.	109	34	47.6	− 1.1	16	13.0	− 0.9
	21	S.	.	15	48	38.92	− 0.05	1	9.36	+ 0.03	.	110	1	42.6	− 0.5	16	11.6	− 2.7
	22	H.	.	15	52	51.39	− 0.12	1	9.44	0.00	.	110	14	37.9	+ 0.5	16	12.8	− 1.7
	24	S.	.	16	1	18.96	+ 0.08	1	9.56	− 0.10	.	110	39	18.1	− 0.3	16	14.7	− 0.2
	28	H.	.	16	18	22.46	− 0.11	1	10.08	+ 0.02	.	111	23	58.4	− 2.4	16	15.4	− 0.2
	29	E.	.	16	22	40.34	+ 0.05	1	10.12	− 0.04	.	111	34	9.1	− 2.2	16	15.5	− 0.2
Dec.	2	H.	.	16	35	37.34	− 0.16	1	10.50	+ 0.08	.	112	2	13.3	− 1.1	16	15.0	− 1.2
	4	S.	.	16	44	18.94	+ 0.10	1	10.52	− 0.06	.	112	18	49.8	0.0	16	15.4	− 1.0
	9	H.	.	17	6	11.68	− 0.32	1	10.96	+ 0.05	.	112	52	40.4	+ 0.7	16	16.0	− 1.0
	12	H.	.	17	19	25.16	− 0.21	1	11.05	− 0.02	.	113	7	34.6	+ 0.3	16	17.2	− 0.2
	13	E.	.	17	23	50.38	− 0.16	1	11.16	+ 0.04	.	113	11	37.8	+ 0.3	16	16.8	− 0.6
	15	S.	.	17	32	41.64	− 0.12	1	11.06	− 0.13	.	113	18	20.6	+ 0.2	16	16.0	− 1.6
	19	H.	.	17	50	26.47	− 0.11	1	11.23	− 0.05	.	113	26	11.2	+ 1.7	16	16.2	− 1.8
	20	E.	.	17	54	52.86	− 0.22	1	11.24	− 0.05	.	113	26	55.8	− 0.3	16	17.6	− 0.4
	22	H.	.	18	3	45.98	− 0.22	1	11.26	− 0.04	.	113	27	5.2	+ 0.6	16	17.4	− 0.8
	24	S.	.	18	12	39.34	+ 0.10	1	11.22	− 0.07	.	113	25	21.5	+ 1.7	16	16.7	− 1.6
	29	E.	.	18	34	50.24	+ 0.19	1	11.22	+ 0.03	N.	113	12	42.1	− 2.0		....	....
1891.																		
Jan.	3	H.	.	18	56	54.95	− 0.33	1	10.94	− 0.04	.	112	48	31.7	+ 1.4	16	18.2	− 0.2
	7	H.	.	19	14	28.74	− 0.19	1	10.68	− 0.06	.	112	20	57.8	+ 1.6	16	18.1	− 0.2
	8	E.	.	19	18	51.18	0.00	1	10.69	+ 0.02	.	112	12	58.9	+ 0.8	16	18.2	− 0.1
	10	H.	.	19	27	33.94	− 0.15	1	10.54	+ 0.03	.	111	55	40.3	+ 1.9	16	17.2	− 1.0
	14	E.	.	19	44	52.70	− 0.02	1	10.14	− 0.03	.	111	16	0.1	+ 1.2	16	16.1	− 1.9
	15	H.	.	19	49	10.56	− 0.11	1	10.02	− 0.06	.	111	5	2.8	+ 1.3	16	17.4	− 0.5
	19	S.	.	20	6	15.56	+ 0.01	1	9.69	0.00	.	110	17	15.2	+ 1.1	16	15.6	− 2.0
	27	E.	.	20	39	48.08	− 0.03	1	8.78	− 0.05	.	108	23	49.6	− 0.9	16	15.0	− 1.8
	30	E.	.	20	52	9.42	− 0.20	1	8.47	− 0.01	.	107	35	36.5	+ 0.6	16	15.4	− 1.0
Feb.	5	H.	.	21	16	30.79	− 0.15	1	7.86	+ 0.07	.	105	50	57.8	− 0.2	16	14.0	− 1.4
	11	S.	.	21	40	23.42	− 0.05	1	7.04	− 0.08	.	103	56	29.1	+ 1.2	16	12.6	− 1.7
	14	S.	.	21	52	9.25	+ 0.13	1	6.68	− 0.11	.	102	56	5.8	− 0.7	16	12.0	− 1.8
	27	H.	.	22	41	53.50	− 0.05	1	5.48	− 0.10	.	98	15	3.1	+ 1.1	16	10.6	− 0.3
Mar.	4	E.	.	23	0	35.32	+ 0.06	1	5.18	− 0.04	N.	96	20	48.2	− 0.9		....	....
	5	S.	.	23	4	18.26	+ 0.03	1	5.10	− 0.05	.	95	57	37.2	− 0.4	16	7.8	− 1.6
	10	H.	.	23	22	47.06	− 0.10	1	4.88	+ 0.01	.	94	0	42.4	+ 1.4	16	7.6	− 0.5
	14	H.	.	23	37	28.12	− 0.08	1	4.62	− 0.07	.	92	26	18.0	− 0.1	16	6.8	− 0.3
	16	S.	.	23	44	47.24	+ 0.19	1	4.56	− 0.06	.	91	38	56.5	− 1.4	16	5.2	− 1.3
April	7	H.	.	1	4	53.20	− 0.27	1	4.66	0.00	.	83	5	20.1	− 0.1	15	59.9	− 0.5
	8	E.	.	1	8	33.06	− 0.03	1	4.70	0.00	.	82	42	50.5	+ 1.2	15	58.8	− 1.4
	13	S.	.	1	26	55.11	+ 0.03	1	4.80	− 0.10	.	80	52	26.9	+ 0.6	15	56.8	− 2.0
	20	S.	.	1	52	51.30	− 0.01	1	5.27	− 0.02	.	78	24	27.5	+ 1.2	15	55.6	− 1.4
	21	H.	.	1	56	35.08	− 0.10	1	5.30	− 0.05	.	78	4	4.7	− 1.0	15	54.8	− 1.9
	25	S.	.	2	11	35.18	+ 0.07	1	5.54	− 0.09	.	76	44	24.8	+ 0.2	15	55.0	− 0.7
	27	E.	.	2	19	8.02	+ 0.04	1	5.71	− 0.07	.	76	5	51.8	+ 0.5	15	53.9	− 1.3
	29	H.	.	2	26	42.76	− 0.17	1	5.88	− 0.05	.	75	28	13.8	+ 0.3	15	54.5	− 0.2
May	1	S.	.	2	34	20.03	− 0.03	1	5.99	− 0.09	.	74	51	33.0	− 0.2	15	52.6	− 1.6

SUN—Continued.

Date.	Observer.	Limb.	Apparent Right Ascension of Center.	Corr'n to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Corr'n to Am. Eph.	Limb.	Geocentric N. P. Distance of Center.	Corr'n to Am. Eph.	Vertical Semi-diameter.	Corr'n to Am. Eph.
1891.			h m s	s	m s	s		° ′ ″	″	′ ″	″
May 12	S.	.	3 16 54.80	+ 0.06	1 6.91	− 0.06	.	71 48 38.0	− 0.2	15 51.1	− 0.7
18	S.	.	3 40 37 01	+ 0.01	1 7.35	− 0.11	.	70 24 2.4	− 1.2	15 48.7	− 1.9
June 1	E.	.	4 37 9.28	+ 0.04	1 8.38	− 0.04	.	67 54 40.4	+ 0.4	15 46.6	− 1.7
2	S.	.	4 41 15.04	− 0.07	1 8.37	− 0.11	.	67 46 48.3	− 1.5	15 46.4	− 1.8
10	H.	.	5 14 14 34	− 0.13	1 8.80	− 0.03	.	66 57 45.1	− 0.9	15 46.6	− 0.6
11	E.	.	5 18 23.09	− 0.02	1 8.84	− 0.02	.	66 53 24.4	+ 0.2	15 46.3	− 0.9
15	S.	.	5 34 59.30	+ 0.02	1 8.84	− 0.10	.	66 40 10.8	+ 1.1	15 44.8	− 2.0
16	E.	.	5 39 8 63	+ 0 02	1 8.97	+ 0.01	N.	66 37 57.7	− 1.0	....	....
17	S.	.	5 43 18.10	+ 0.07	1 8.89	− 0.08	.	66 36 3.6	0.0	15 45.8	− 0.9
23	S.	.	6 8 14.94	+ 0.05	1 8.90	− 0.07	.	66 33 31.3	+ 1.8	15 45.0	− 1.4
24	E.	.	6 12 24.27	+ 0.02	1 8.92	− 0.14	.	66 34 35.6	− 0.9	15 45.0	− 1.3
25	S.	.	6 16 33.48	− 0.05	1 8.78	− 0.16	.	66 36 1.6	− 0.6	15 44.8	− 1.5
26	E.	.	6 20 42.68	− 0.01	1 8.88	− 0.04	.	66 37 52.6	− 0.7	15 44.6	− 1.6
29	E.	.	6 33 9.40	+ 0.06	1 8.80	− 0.04	.	66 45 53.5	− 1.3	15 44.4	− 1.8

OBSERVATIONS OF THE MOON.

1866–1891.

MOON.

Date.		Mean Time of Transit of Center.			Observer.	Limb.	Apparent Right Ascension of Center.			Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.			Correction to Tables of—	
										Peirce.	Hansen.					Peirce.	Hansen.
1866.		h	m	s			h	m	s	s	s		°	′	″	″	″
Jan.	3	14	37	54.8	T.	II	9	32	40.91	− 0.05	− 0.20	.	79	44.0	....	....	....
	4	15	25	12.3	R.	II	10	24	2.93	+ 0.14	− 0.01	S.	83	32	37.0	− 4.1	− 2.2
	9	19	3	33.3	R.	II	14	22	42.56	− 0.24	− 0.08	S.	102	16	10.2	+ 7.1	+ 7.6
	22	5	8	9.1	H.	I	1	16	16.24	+ 0.57	+ 0.14	S.	82	29	11.0	+ 0.6	− 2.3
Feb.	1	14	2	24.0	R.	.	10	53.4	....	....	....	S.	85	32	53.5	− 1.8	− 0.1
	2	14	47	9.6	H.	II	11	40	14.96	− 0.13	− 0.23	S.	89	35	32.4	− 1.9	+ 0.2
	3	15	30	52.6	T.	II	12	28	0.73	− 0.20	− 0.27	N.	93	35	0.0	− 3.5	− 1.6
	5	16	57	44.7	R.	II	14	3	0.20	+ 0.21	+ 0.20	S.	100	43	50.1	+ 4.0	+ 4.4
	6	17	42	8.4	H.	II	14	51	27.80	− 0.20	− 0.13	S.	103	39	56.5	+ 0.9	+ 0.5
	22	6	44	16.3	R.	I	4	54	54.45	+ 0.59	+ 0.31	S.	72	0	5.6	+ 0.7	− 0.4
	23	7	40	26.4	H.	I	5	55	8.31	+ 0.50	+ 0.26	.	71	35.5	....	....	....
	26	10	20	3.8	H.	I	8	47	1.57	+ 0.17	+ 0.04	S.	76	48	33.3	+ 4.5	+ 1.4
	27	11	8	59.0	R.	I	9	40	1.37	− 0.16	− 0.24	S.	80	7	45.9	+ 1.7	− 0.8
Mar.	5	15	36	38.4	H.	II	14	32	4.10	− 0.11	− 0.13	S.	102	23	25.7	+ 2.3	+ 2.3
	8	17	55	30.2	N.	II	17	3	8.30	− 0.03	− 0.02	S.	108	2	31.0	+ 1.4	− 1.0
	9	18	44	29.0	H.	II	17	56	11.79	− 0.08	− 0.11	S.	108	19	25.8	− 0.4	− 3.5
	22	5	35	47.4	R.	I	5	36	36.18	+ 0.28	+ 0.17	S.	71	42	24.2	− 0.3	− 1.2
	24	7	25	35.4	T.	I	7	34	35.27	+ 0.10	0.00	N.	73	35	23.1	+ 0.3	− 1.1
	26	9	5	53.8	N.	I	9	23	2.93	+ 0.03	+ 0.05	N.	79	3	12.2	+ 3.4	+ 1.0
	27	9	52	41.4	R.	I	10	13	54.68	− 0.15	− 0.10	N.	82	36	56.9	+ 2.4	0.0
	30*	12	5	21.6	N.	I, II	12	38	46.37	− 0.16	− 0.08	S.	94	18	12.8	+ 1.2	+ 1.1
	31	12	48	50.2	T.	II	13	26	18.72	− 0.21	− 0.10	.	97	58.1	....	....	....
Apr.	5	16	37	50.1	R.	II	17	35	38.92	− 0.37	− 0.41	N.	108	17	3.8	+ 1.9	+ 0.3
	9	19	56	56.9	N.	II	21	11	4.66	+ 0.47	− 0.37	N.	101	42	17.6	− 0.2	+ 0.4
	19	4	23	45.9	N.	I	6	14	45.89	+ 0.29	+ 0.06	.	71	48.4	....	....	....
	20	5	20	5.3	R.	I	7	15	11.06	+ 0.10	− 0.16	N.	72	57	15.7	+ 4.1	+ 3.3
	24	8	36	35.0	R.	I	10	47	59.30	− 0.07	+ 0.03	N.	85	13	44.6	+ 2.9	+ 1.4
	25	9	20	33.6	T.	I	11	36	1.72	− 0.25	− 0.12	N.	89	8	45.0	+ 2.5	+ 1.2
	27	10	46	54.9	H.	I	13	10	30.28	− 0.05	+ 0.18	N.	96	47	18.6	+ 1.8	+ 2.1
May	3	15	22	32.1	R.	II	18	10	32.05	− 0.12	− 0.25	N.	108	17	26.6	+ 2.8	+ 2.7
	5	17	0	20.1	T.	II	19	56	29.24	− 0.09	− 0.29	.	105	40.7	....	....	....
	6	17	49	29.4	H.	II	20	49	43.15	− 0.09	− 0.42	N.	103	4	32.5	+ 6.6	+ 5.4
	7	18	38	53.7	N.	II	21	43	12.11	+ 0.19	− 0.39	N.	99	42	15.9	− 0.1	0.0
	19	4	57	38.4	T.	I	8	47	0.55	+ 0.05	− 0.24	N.	76	42	12.6	+ 0.9	+ 0.9
	21	6	34	20.8	N.	I	10	31	52.02	+ 0.10	+ 0.06	N.	83	48	40.5	+ 5.2	+ 5.0
	22	7	19	10.2	H.	.	11	20.8	....	....	....	N.	87	44	46.7	+ 3.0	+ 3.1
	23	8	2	41.6	T.	I	12	8	20.44	− 0.26	− 0.07	.	91	41.9	....	....	....
	24	8	45	43.8	N.	.	12	55.4	....	....	....	N.	95	34	27.6	+ 1.6	+ 1.8
	28†	11	43	58.4	N.	I, II	16	9	56.42	− 0.16	− 0.01	N.	106	53	42.4	+ 0.5	+ 1.9
	29	12	31	24.7	H.	II	17	1	26.94	− 0.33	− 0.24	S.	108	6	55.3	− 3.1	− 1.6
	30	13	19	47.4	T.	II	17	53	54.18	+ 0.01	+ 0.01	N.	108	28	45.6	+ 1.4	+ 2.6
June	6	19	3	9.0	H.	II	0	5	48.09	+ 0.49	− 0.37	.	88	38.7	....	....	....
	7	19	55	7.3	N.	II	1	1	51.45	+ 0.63	− 0.42	.	84	4.9	....	....	....
	19	5	59	41.7	R.	I	11	51	27.31	− 0.25	− 0.12	N.	90	3	20.4	+ 0.6	+ 2.7
	20	6	43	19.6	T.	I	12	39	8.93	− 0.35	− 0.08	N.	94	0	0.2	+ 0.9	+ 2.6
	21	7	26	36.1	N.	I	13	26	29.06	− 0.44	− 0.11	N.	97	42	39.9	+ 0.2	+ 1.7
	22	8	10	12.6	R.	I	14	14	9.31	− 0.48	− 0.13	N.	101	3	52.0	− 1.0	+ 0.1
	23	8	55	42.1	H.	I	15	2	42.83	− 0.37	− 0.08	N	103	56	19.5	+ 0.9	+ 1.8
	25	10	27	32.3	N.	I	16	43	41.23	− 0.28	− 0.14	N.	107	45	14.1	+ 1.5	+ 2.3
	26	11	15	52.2	R.	I	17	36	5.68	− 0.21	− 0.12	N.	108	28	3.8	+ 1.0	+ 1.9
July	2	16	10	50.8	N.	II	22	55	32.08	+ 0.37	− 0.30	N.	94	42	24.3	+ 1.0	+ 1.3
	5	18	41	46.5	N.	II	1	38	42.20	+ 0.58	− 0.47	N.	81	31	46.4	− 0.9	+ 1.7
	6	19	35	54.9	R.	II	2	36	56.11	+ 0.65	− 0.55	N.	77	38	11.9	+ 1.4	+ 3.9
	7	20	32	38.8	H.	II	3	37	45.83	+ 0.98	− 0.28	.	74	29.2	....	....	....
	16	3	53	24.2	N.	I	11	31	16.06	− 0.01	+ 0.03	N.	88	7	3.2	− 0.7	+ 1.7
	17	4	38	20.7	N.	I	12	20	16.52	+ 0.01	+ 0.13	N.	92	11	12.5	− 0.2	+ 3.2
	23	9	9	48.8	N.	I	17	16	8.53	− 0.30	− 0.03	N.	108	10	51.5	+ 0.2	+ 0.3
	26	11	38	47.0	N.	I	19	57	20.52	− 0.24	− 0.16	N.	105	59	2.8	+ 1.7	+ 1.0
	27	12	28	54.6	H.	II	20	51	33.34	− 0.46	− 0.39	N.	103	25	47.4	+ 2.8	+ 1.5

* Sidereal time of transit of semidiameter, $61^{s}.55$.
† Sidereal time of transit of semidiameter, $64^{s}.00$.

MOON—Continued.

Date.	Mean Time of Transit of Center.			Observer.	Limb.	Apparent Right Ascension of Center.			Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.			Correction to Tables of—	
									Peirce.	Hansen.					Peirce.	Hansen.
1866.	h	m	s			h	m	s	s	s		°	′	″	″	″
July 28	13	18	45.1	T.	II	21	45	28.54	− 0.48	− 0.53	N.	100	6	26.7	+ 6.0	+ 4.0
Aug. 2	17	31	35.7	H.	II	2	18	43.42	+ 0.90	− 0.41	N.	79	0	24.3	− 0.4	+ 2.8
4	19	22	45.1	R.	II	4	18	4.28	+ 0.87	− 0.27	.	73	11.0	....	....	....
5	20	20	45.5	N.	II	5	20	10.71	+ 0.81	− 0.28	N.	71	51	14.0	+ 2.2	+ 0.9
6	21	19	13.2	R.	II	6	22	44.60	+ 0.74	− 0.26	.	71	46.3	....	....	....
15	4	0	25.6	T.	I	13	36	35.25	− 0.22	− 0.05	N.	97	59	19.6	+ 2.4	+ 5.3
16	4	44	47.7	R.	I	14	25	1.26	− 0.51	− 0.22	N.	101	18	20.9	+ 1.0	+ 3.5
17	5	29	41.0	H.	I	15	13	58.52	− 0.53	− 0.15	N.	104	5	44.0	+ 3.4	+ 5.2
18	6	15	29.1	T.	I	16	3	50.65	− 0.52	− 0.05	N.	106	14	55.7	+ 0.3	+ 1.4
20	7	50	34.1	N.	I	17	47	4.42	− 0.34	+ 0.19	N.	108	15	39.6	+ 0.7	+ 0.2
23	10	20	4.0	R.	I	20	28	48.48	− 0.34	− 0.10	N.	104	33	33.7	+ 2.8	+ 1.1
24	11	10	36.1	H.	I	21	23	25.41	− 0.08	+ 0.03	.	101	32.9	....	....	....
30	16	22	29.1	H.	II	2	59	49.06	+ 1.06	− 0.43	N.	76	43	5.4	+ 0.7	+ 3.4
Sept. 15	4	55	21.8	R.	I	16	33	53.62	− 0.64	− 0.20	N.	107	4	38.5	+ 4.6	+ 5.2
17	6	30	39.2	T.	I	18	17	19.90	− 0.64	− 0.11	N.	108	6	31.9	+ 3.1	+ 1.8
18	7	19	31.1	R.	I	19	10	16.31	− 0.71	− 0.15	S.	107	18	13.3	− 0.2	− 2.2
22	10	40	13.5	N.	I	22	47	17.85	− 0.23	− 0.08	S.	95	35	27.4	+ 1.4	− 0.3
27	15	11	49.3	N.	I	3	39	21.05	+ 0.54	− 0.39	N.	74	50	3.9	+ 1.8	+ 1.2
Oct. 3	20	44	12.5	N.	II	9	36	18.12	+ 0.09	− 0.26	.	79	18.6	....	....	....
4	21	32	33.5	R.	II	10	28	43.70	− 0.19	− 0.37	.	82	59.5	....	....	....
16	5	59	49.9	R.	I	19	40	45.47	− 0.41	− 0.11	S.	106	28	29.7	+ 3.1	+ 1.3
17	6	48	21.2	H.	I	20	33	21.27	− 0.55	− 0.26	S.	104	19	9.8	+ 5.9	+ 4.3
18	7	37	15.9	R.	I	21	26	20.58	− 0.42	− 0.10	S.	101	21	36.2	+ 1.8	+ 0.4
19	8	26	46.7	H.	I	22	19	56.09	− 0.43	− 0.07	S.	97	41	33.8	− 0.1	− 1.2
20	9	17	15.4	N.	I	23	14	29.57	− 0.46	− 0.14	S.	93	27	45.3	− 1.3	− 2.1
23	11	59	1.1	R.	II	2	8	32.53	+ 0.35	− 0.21	.	79	51.1	....	....	....
25	13	57	19.1	R.	II	4	15	2.08	+ 0.47	− 0.28	S.	73	25	40.8	+ 2.6	+ 1.1
30	18	41	55.6	R.	II	9	20	8.13	− 0.06	− 0.68	.	78	12.1	....	....	....
31	19	30	51.2	H.	II	10	13	8.28	+ 0.22	− 0.34	.	81	45.6	....	....	....
Nov. 1	20	17	32.7	H.	II	11	3	54.03	− 0.03	− 0.43	.	85	38.7	....	....	....
12	3	54	41.5	N.	I	19	21	43.43	− 0.51	− 0.07	S.	107	12	21.6	− 1.2	− 2.8
13	4	42	14.7	H.	I	20	13	20.97	− 0.39	− 0.16	S.	105	24	22.2	+ 5.6	+ 3.3
16	7	5	42.4	H.	I	22	49	1.98	− 0.12	− 0.17	S.	95	38	46.8	+ 2.5	+ 1.4
20	10	36	57.3	R.	I	2	36	37.96	− 0.16	− 0.26	.	78	4.3	....	....	....
21	11	36	39.6	T.	I	3	40	26.45	+ 0.10	− 0.36	S.	74	42	4.7	+ 2.4	+ 0.9
22	12	38	31.8	R.	II	4	46	25.37	+ 0.46	− 0.32	S.	72	28	13.3	+ 2.8	+ 0.9
26	16	35	50.9	T.	II	9	0	9.66	− 0.02	− 0.23	.	76	49.0	....	....	....
30	19	46	6.9	H.	II	12	26	43.27	− 0.12	− 0.40	S.	92	15	4.6	+ 1.1	− 3.3
Dec. 11	3	26	57.0	T.	I	20	48	14.46	− 0.07	+ 0.11	.	103	58.6	....	....	....
12	4	13	52.2	R.	I	21	39	13.87	− 0.05	− 0.02	S.	100	58	18.4	+ 5.7	+ 0.8
14	5	48	3.0	R.	I	23	21	33.38	+ 0.28	0.00	S.	93	18	50.8	+ 1.3	− 3.1
20	11	18	0.0	T.	I	5	16	3.92	− 0.31	− 0.27	S.	71	53	31.8	+ 6.3	+ 2.6
28	18	27	46.2	H.	II	12	58	33.21	− 0.27	− 0.34	S.	94	34	0.1	+ 1.8	+ 0.7
1867.																
Jan. 9	2	59	25.9	H.	I	22	14	59.02	− 0.01	− 0.11	S.	98	44	13.3	+ 0.6	− 5.5
11	4	33	36.8	N.	I	23	57	18.49	+ 0.30	0.00	S.	90	38	38.6	+ 4.7	− 1.7
15	8	0	33.7	H.	I	3	40	35.64	+ 0.31	− 0.01	S.	74	58	8.1	+ 4.5	+ 0.9
19	11	1	23.8	H.	I	6	54	45.14	− 0.39	− 0.17	S.	71	58	45.7	− 0.6	− 2.7
21	12	1	45.9	T.	I	7	58	13.72	− 0.71	− 0.64	S.	73	39	14.1	− 1.6	− 2.2
22	13	54	23.3	N.	II	9	59	2.71	+ 0.26	− 0.09	S.	80	5	5.3	− 4.8	− 3.5
23	14	45	53.8	H.	II	10	54	38.25	+ 0.36	− 0.06	S.	84	11	3.8	+ 0.1	+ 1.5
24	15	34	39.8	T.	II	11	47	28.85	+ 0.18	− 0.22	S.	88	27	14.3	− 0.8	+ 1.2
26	17	51	45.2	T.	II	14	16	46.36	− 0.12	− 0.11	S.	100	8	24.5	+ 0.1	+ 0.3
28	19	22	9.7	N.	II	15	56	18.86	− 0.44	− 0.44	S.	105	31	57.0	+ 0.1	− 0.9
29	20	8	25.2	H.	II	16	45	38.52	− 0.33	− 0 38	.	107	15.4	....	....	....
Feb. 7	2	31	56.3	N.	I	23	41	45.04	+ 0.18	− 0.08	.	92	6.0	....	....	....
11	5	54	25.8	N.	I	3	20	34.00	+ 0.50	+ 0.03	S.	76	8	23.3	+ 1.6	− 0.6
12	6	50	11.2	H.	I	4	20	25.10	+ 0.53	+ 0.14	S.	73	33	42.7	+ 1.6	− 0.3
18	12	32	7.0	T.	II	10	26	57.37	+ 0.10	− 0.16	S.	82	0	58.1	− 0.5	+ 0.4

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of— Peirce.	Correction to Tables of— Hansen.	Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of— Peirce.	Correction to Tables of— Hansen.
1867.	h m s			h m s	s	s		° ′ ″	″	″
Feb. 21	14 58 5.6	N.	II	13 5 8.62	− 0.32	− 0.36	S.	94 40 45.3	− 2.6	− 2.0
22	15 44 10.4	H.	II	13 55 17.64	+ 0.09	− 0.25	S.	98 29 6.3	− 1.1	− 1.2
26	18 48 43.7	H.	II	17 16 7.40	− 0.27	− 0.22	S.	107 48 5.0	− 1.5	− 4.0
Mar. 11	4 46 5.0	N.	I	4 2 25.50	+ 0.62	+ 0.19	.	74 18.1	....	....
14	7 38 12.8	N.	I	7 6 51.26	− 0.01	+ 0.07	N.	72 21 11.9	+ 1.0	+ 0.7
18	11 12 34.3	N.	I	10 57 34.12	+ 0.33	0.00	N.	84 20 18.5	+ 1.3	− 0.6
25	16 41 22.9	N.	II	16 54 52.63	− 0.13	− 0.37	S.	107 22 7.0	− 0.8	− 3.7
28	19 3 38.9	N.	II	19 29 21.59	− 0.25	− 0.27	N.	107 9 22.3	+ 4.2	+ 1.5
29	19 51 21.2	H.	II	20 21 8.26	− 0.30	− 0.34	N.	105 23 3.3	+ 1.2	− 1.7
30	20 39 8.7	T.	II	21 13 0.19	− 0.54	− 0.65	N.	102 49 11.3	+ 10.1	+ 7.7
Apr. 13	8 17 42.8	T.	I	9 44 44.22	− 0.27	− 0.11	N.	79 4 1.4	− 2.3	− 2.1
17	11 29 16.4	T.	I	13 12 35.51	0.00	− 0.16	N.	95 23 23.6	+ 0.6	+ 0.1
18	12 15 17.5	H.	II	14 2 40.77	− 0.09	− 0.17	N.	99 1 58.4	− 2.4	− 1.7
26	18 30 55.3	H.	II	20 50 52.68	− 0.27	− 0.34	N.	104 8 25.5	+ 2.1	+ 0.6
27	19 17 51.7	T.	II	21 41 53.35	− 0.74	− 0.81	.	101 12.3	....	...
May 9	5 21 8.1	N.	I	8 30 11.98	+ 0.15	+ 0.01	N.	74 47 3.3	+ 0.5	+ 0.7
10	6 14 59.2	H.	I	9 28 7.38	+ 0.04	− 0.08	N.	77 50 53.4	+ 0.6	+ 0.8
11	7 5 53.6	T.	I	10 23 6.73	+ 0.13	+ 0.04	N.	81 32 7.1	− 0.8	− 0.9
15	10 12 13.2	H.	.	13 45.7	....	....	N.	97 45 35.7	− 0.6	− 0.1
17	11 43 41.5	H.	I	15 25 19.64	− 0.23	− 0.20	N.	104 8 48.2	− 2.3	+ 1.0
18	12 30 16.8	T.	.	16 16.0	....	....	N.	106 23 19.8	− 2.6	+ 0.4
28	20 20 54.9	T.	II	0 47 19.10	− 0.27	− 0.65	N.	86 57 44.2	− 4.0	− 3.2
June 5	3 10 87.7	H.	I	8 5 46.11	− 0.29	− 0.41	N.	73 34 22.2	+ 0.7	+ 0.5
10	7 25 53.8	N.	I	12 41 26.87	+ 0.02	− 0.09	N.	92 27 24.1	− 1.8	− 1.3
11	8 11 11.2	T.	I	13 30 48.33	− 0.10	− 0.17	N.	96 26 48.3	− 1.4	− 0.6
13	9 41 39.6	N.	I	15 9 24.71	− 0.03	− 0.10	N.	103 11 55.6	− 4.8	− 2.7
14	10 27 40.1	H.	I	15 59 29.30	− 0.15	− 0.20	N.	105 42 6.9	− 2.3	+ 0.2
15	11 14 22.4	T.	I	16 50 15.79	− 0.29	− 0.32	N.	107 28 23.8	− 0.6	+ 2.0
19	14 23 21.8	H.	II	20 15 32.50	+ 0.04	− 0.09	N.	106 9 25.3	− 1.4	− 2.2
20	15 9 37.8	N.	II	21 5 52.69	− 0.18	− 0.40	N.	103 48 5.0	+ 2.4	+ 1.0
July 9	6 54 25.3	H.	I	14 4 13.38	− 0.29	+ 0.16	N.	98 44 4.9	− 3.4	− 0.7
10	7 39 50.2	T.	I	14 53 42.30	− 0.36	− 0.12	N.	102 4 35.0	− 4.9	− 2.3
11	8 25 34.0	N.	I	15 43 30.21	− 0.41	− 0.19	N.	104 49 27.4	− 1.8	+ 0.8
13	9 58 49.7	T.	I	17 24 54.36	− 0.29	− 0.23	N.	108 8 28.1	− 2.9	− 0.5
15	11 33 44.8	N.	I	19 7 58.12	− 0.05	− 0.15	.	108 7.2	....	...
17	13 7 48.1	T.	II	20 50 10.02	− 0.19	− 0.39	N.	104 43 27.7	− 1.1	− 1.4
18	13 53 57.0	N.	II	21 40 23.03	− 0.24	− 0.53	N.	101 55 32.1	+ 1.3	+ 0.2
20	15 25 4.2	T.	.	23 11.4	....	....	N.	94 42 52.5	+ 2.5	+ 1.0
22	16 57 51.6	N.	II	1 0 33.99	+ 0.17	− 0.32	N.	86 21 17.2	+ 3.0	+ 2.6
23	17 46 37.1	H.	II	1 53 24.16	+ 0.09	− 0.43	N.	82 11 34.8	+ 1.2	+ 1.6
Aug. 7	6 21 48.4	T.	I	15 25 51.22	− 0.41	− 0.11	N.	103 45 9.8	− 1.7	0.0
9	7 55 0.2	H.	I	17 7 11.42	− 0.58	− 0.21	N.	107 39 54.2	− 1.1	− 0.3
12	10 17 11.2	N.	I	19 41 35.50	− 0.20	− 0.11	S.	107 19 16.4	− 2.5	− 2.9
17	14 9 36.6	T.	II	23 54 21.79	− 0.03	− 0.54	.	92 49.6	....	...
23	19 18 47.7	H.	II	5 28 4.22	+ 0.70	− 0.19	N.	71 58 35.1	0.0	+ 0.7
Sept. 3	4 14 56.0	H.	I	15 5 4.98	− 0.45	− 0.24	N.	102 30 1.5	− 1.7	− 1.2
4	5 1 59.1	T.	I	15 56 12.31	− 0.57	− 0.26	N.	105 10 24.5	+ 4.5	+ 4.1
6	6 36 27.1	N.	I	17 38 48.54	− 0.61	− 0.15	N.	108 9 53.6	+ 2.5	+ 0.6
7	7 23 53.0	T.	I	18 30 19.14	− 0.44	+ 0.05	.	108 24.9	....	....
11	10 32 13.6	T.	I	21 54 56.93	− 0.40	− 0.25	S.	101 1 6.3	+ 3.0	+ 0.2
12	11 18 48.5	N.	I	22 45 36.07	− 0.10	− 0.09	S.	97 26 56.4	+ 1.5	− 1.2
13	12 5 32.8	H.	II	23 36 24.54	− 0.13	− 0.28	N.	93 26 43.0	+ 5.1	+ 2.0
18	16 17 13.8	T.	II	4 8 29.74	+ 0.59	− 0.56	N.	74 17 2.0	− 0.2	+ 1.1
19	17 13 22.9	N.	II	5 8 44.59	+ 0.66	− 0.46	N.	72 21 8.8	+ 0.1	+ 1.7
22	20 6 38.5	H.	II	8 14 18.71	+ 0.26	− 0.42	S.	73 45 20.4	+ 0.1	− 1.9
30	2 5 40.2	N.	I	14 41 54.84	− 0.53	− 0.19	.	101 6.0	....	....
Oct. 1	2 53 28.0	H.	I	15 33 47.05	− 0.79	− 0.43	N.	104 8 19.3	+ 5.9	+ 5.3
2	3 41 14.6	T.	I	16 25 38.17	− 0.67	− 0.30	.	106 25.3	....	....
7	7 38 1.5	N.	I	20 42 46.62	− 0.63	− 0.21	S.	105 6 19.7	+ 2.7	− 1.7

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of—	
					Peirce.	Hansen.			Peirce.	Hansen.
1867.	h m s			h m s	s	s		° ′ ″	″	″
Oct. 8	8 24 29.3	H.	I	21 33 18.58	− 0.57	− 0.18	N.	102 25 19.4	+ 4.4	+ 0.7
11	10 44 54.1	H.	I	0 5 56.11	− 0.35	− 0.28	S.	91 0 38.5	+ 3.2	+ 1.2
12	11 33 30.7	T.	I	0 58 37.21	− 0.17	− 0.33	S.	86 37 17.0	+ 3.4	+ 1.8
14	13 16 22.0	H.	II	2 49 38.52	− 0.05	− 0.57	N.	78 21 47.1	+ 4.1	+ 2.7
15	14 11 9.6	A.	.	3 50.9	....	....	N.	75 4 37.9	+ 1.3	+ 0.1
16	15 7 59.0	T.	II	4 59 26.97	+ 0.26	− 0.57	N.	72 44 15.6	+ 1.5	+ 0.2
17	16 6 7.3	H.	II	5 51 41.36	+ 0.38	− 0.55	N.	71 33 35.2	− 0.9	− 2.3
18	17 4 30.6	A.	II	6 54 10.75	+ 0.53	− 0.40	N.	71 39 8.0	0.0	− 1.3
19	18 2 1.0	T.	II	7 55 47.15	+ 0.27	− 0.58	N.	72 59 30.6	+ 3.2	+ 0.4
Nov. 1	3 57 2.5	H.	I	18 39 45.13	− 0.65	− 0.20	S.	108 35 4.6	+ 1.7	− 2.5
5	7 [illegible] 32.9	A.	I	22 1 32.17	− 0.51	− 0.23	S.	100 48 42.8	+ 5.8	+ 1.6
6	7 48 14.1	T.	I	22 51 17.41	− 0.37	− 0.04	S.	97 12 36.6	+ 2.6	− 1.0
8	9 22 0.6	A.	.	0 33.2	....	....	S.	88 49 14.1	+ 3.7	+ 1.8
13	13 55 45.4	T.	II	5 27 24.94	+ 0.35	− 0.42	.	71 35.3	....	....
14	14 56 18.4	H.	II	6 32 4.47	+ 0.20	− 0.47	S.	71 16 53.5	+ 4.4	+ 2.0
15	15 56 3.7	A.	II	7 35 56.18	− 0.11	− 0.65	S.	72 12 28.7	+ 1.4	− 1.4
Dec. 5	7 11 50.4	H.	I	0 9 7.92	− 0.51	− 0.30	S.	91 6 4.5	+ 4.5	+ 0.3
7	8 48 25.2	T.	I	1 53 51.68	− 0.50	− 0.27	S.	82 25 40.2	+ 3.2	0.0
9	10 37 15.1	H.	I	3 50 52.58	− 0.11	− 0.32	S.	74 54 32.5	+ 2.0	0.0
13	14 42 39.0	A.	II	8 12 43.00	+ 0.30	− 0.51	.	73 7.2	....	....
1868.										
Jan. 30	4 34 27.3	T.	I	1 12 6.05	− 0.28	− 0.28	S.	86 13 40.5	+ 6.9	+ 1.2
31	5 21 13.2	T.	I	2 2 56.23	+ 0.04	− 0.03	S.	82 9 12.9	+ 3.8	− 0.8
Feb. 1	6 10 27.6	N.	I	[illegible] 56 15.26	+ 0.23	0.00	S.	78 21 59.3	+ 0.1	− 2.7
2	7 [illegible] 51.2	T.	I	3 52 44.02	+ 0.29	− 0.15	.	75 6.9	....	....
3	7 58 45.2	N.	I	4 52 43.75	+ 0.63	+ 0.15	S.	72 40 51.3	− 1.3	− 2.9
6	11 1 11.0	E.	I	8 7 29.70	− 0.30	− 0.13	.	72 50.8	....	....
7	12 [illegible] 0.6	A.	.	9 12.4	....	....	N.	75 37 44.7	− 1.6	0.0
11	15 39 41.6	A.	II	13 5 28.17	− 0.14	− 0.54	S.	93 16 20.6	− 3.1	− 1.2
12	16 28 51.0	Ha.	II	13 59 42.34	− 0.39	− 0.71	S.	97 34 0.1	− 0.3	+ 0.4
13	17 17 5.5	E.	II	14 52 1.12	− 0.37	− 0.63	.	101 19.4	....	....
14	18 4 53.8	A.	II	15 43 54.03	− 0.29	− 0.52	S.	104 24 10.5	− 2.2	− 2.7
17	20 27 58.0	T.	II	18 19 11.36	+ 0.05	− 0.34	.	108 46.3	....	....
Mar. 31	6 36 17.5	A.	I	7 14 47.06	− 0.03	+ 0.01	N.	71 28 41.5	− 2.2	− 0.3
Apr. 1	7 33 59.5	Ha.	I	8 16 34.03	− 0.24	− 0.20	N.	73 5 20.2	− 1.7	− 0.1
8	13 44 4.4	N.	II	14 55 15.66	− 0.12	− 0.32	S.	101 39 4.8	− 0.1	− 1.2
28	5 29 37.8	E.	I	7 58 18.76	− 0.04	− 0.02	N.	72 15 54.7	− 0.6	+ 1.1
30	7 20 53.1	N.	I	9 57 45.53	− 0.23	− 0.10	N.	78 2 52.6	− 0.6	+ 0.9
May 1	8 13 40.7	N.	I	10 54 38.83	− 0.04	− 0.04	N.	82 8 43.8	− 0.1	+ 0.1
4	10 44 38.5	N.	I	13 37 50.62	+ 0.27	− 0.15	N.	95 53 30.5	− 0.8	− 2.4
8	14 4 12.5	A.	II	17 13 43.63	− 0.57	− 0.50	S.	108 12 58.3	− 3.0	− 4.5
11	16 30 58.4	N.	II	19 52 43.24	− 0.35	− 0.41	N.	108 1 1.5	+ 1.9	− 0.5
13	18 3 2.7	E.	II	21 32 55.84	− 0.69	− 0.73	.	103 37.8	....	....
17	21 1 18.4	N.	II	0 47 26.60	− 0.30	− 0.49	N.	88 27 41.8	+ 0.8	+ 1.3
27	5 17 38.0	E.	I	9 40 37.12	+ 0.06	+ 0.02	N.	76 42 26.3	+ 1.1	+ 2.5
30	7 52 8.4	E.	I	12 27 22.65	− 0.01	− 0.18	N.	89 41 35.9	− 1.1	− 1.5
31	8 40 50.8	T.	I	13 20 9.54	+ 0.10	− 0.18	.	94 9.0	....	....
June 1	9 29 17.3	N.	I	14 13 40.58	+ 0.16	− 0.23	N.	98 32 35.6	− 0.7	− 1.0
4	11 56 49.2	N.	I	16 52 26.40	− 0.17	− 0.27	N.	107 39 30.7	+ 0.6	+ 1.3
8	15 12 4.2	N.	II	20 23 59.70	− 0.25	− 0.36	N.	107 12 19.2	+ 2.1	− 0.5
12	18 10 3.9	E.	II	23 38 14.88	− 0.22	− 0.28	N.	94 41 39.5	+ 2.9	+ 1.2
13	18 53 58.5	T.	II	0 36 13.23	− 0.42	− 0.42	.	90 29.7	....	....
14	19 39 7.1	N.	II	1 15 25.82	− 0.39	− 0.41	.	86 16.1	....	....
22	2 10 20.3	N.	I	8 15 18.68	− 0.23	− 0.04	.	72 25.4	....	....
24	4 5 49.6	T.	I	10 19 0.54	− 0.29	− 0.15	N.	79 0 24.4	− 2.7	0.0
26	5 50 6.1	E.	I	12 11 26.82	+ 0.05	+ 0.03	N.	88 3 44.5	− 0.8	0.0
27	6 39 17.4	T.	I	13 4 43.20	+ 0.04	− 0.06	N.	92 43 0.8	− 0.4	− 0.3
28	7 27 34.6	T.	I	13 57 4.94	+ 0.04	− 0.12	N.	97 7 9.1	− 0.4	− 0.4
July 1	9 52 46.7	T.	I	16 34 30.57	− 0.03	− 0.22	N.	106 56 9.2	− 0.5	+ 0.5

MOON—Continued.

Date.	Mean Time of Transit of Center.			Observer.	Limb.	Apparent Right Ascension of Center.			Correction to Tables of— Peirce.	Correction to Tables of— Hansen.	Limb.	Geocentric N. P. Distance of Center.			Correction to Tables of— Peirce.	Correction to Tables of— Hansen.
1868.	h	m	s			h	m	s	s	s		°	′	″	″	″
July 2	10	41	56.2	N.	.	17	28.4	....	....	....	N.	108	36	7.9	+ 0.8	+ 1.5
3	11	31	12.0	E.	I	18	21	5.09	— 0.13	— 0.23	N.	109	19	15.0	+ 0.2	+ 0.3
4	12	19	57.8	T.	II	19	13	55.56	— 0.34	— 0.46	N.	109	4	57.0	+ 1.8	+ 0.8
10	16	49	45.6	T.	II	0	8	7.01	— 0.29	— 0.53	N.	92	20	24.6	+ 5.1	+ 1.8
11	17	33	24.4	T.	II	0	55	49.51	— 0.29	— 0.43	.	88	10.2	....	....	....
12	18	18	28.8	N.	II	1	44	57.82	— 0.38	— 0.46	N.	83	58	51.0	+ 2.6	+ 1.2
13	19	5	52.2	E.	II	2	37	25.59	— 0.31	— 0.38	N.	79	57	10.6	+ 5.7	+ 5.0
14	19	56	23.7	T.	II	3	31	1.97	— 0.15	— 0.36	N.	76	18	46.7	+ 2.7	+ 2.4
15	20	50	37.1	N.	II	4	29	20.89	+ 0.14	— 0.21	.	73	20.7	....	....	....
23	3	43	19.5	N.	I	11	50	46.92	— 0.48	— 0.15	.	86	41.9	....	....	....
25	5	24	26.2	T.	I	13	40	3.27	— 0.33	— 0.26	N.	95	33	27.5	— 1.5	— 0.8
28	7	50	24.5	E.	I	16	18	15.28	— 0.44	— 0.51	N.	106	7	49.1	+ 1.1	+ 0.7
29	8	39	13.8	T.	I	17	11	9.11	— 0.31	— 0.31	N.	108	5	34.0	+ 0.1	0.0
31	10	16	44.0	E.	I	18	56	48.43	— 0.30	— 0.25	N.	109	13	35.1	+ 0.2	+ 0.3
Aug. 5	14	5	7.6	T.	II	23	5	32.39	— 0.22	— 0.51	N.	97	39	47.3	+ 7.0	+ 3.3
11	18	39	4.1	T.	II	4	3	53.18	— 0.11	— 0.47	N.	74	35	43.6	+ 2.0	+ 2.3
12	19	33	28.0	F.	II	5	2	22.55	+ 0.31	— 0.17	N.	72	12	9.1	— 1.6	— 1.3
13	20	31	14.1	E.	II	6	4	14.77	+ 0.32	— 0.21	N.	70	53	31.9	+ 1.7	+ 1.9
14	21	31	32.6	T.	II	7	8	39.66	— 0.08	— 0.51	.	70	47.0	....	....	....
26	7	24	49.0	T.	I	17	47	55.69	— 0.21	— 0.27	N.	108	52	21.0	+ 2.8	+ 0.5
27	8	13	37.2	F.	.	18	41.9	....	....	....	S.	109	16	44.8	+ 3.1	+ 0.2
29	9	48	50.8	T.	I	20	23	10.78	— 0.25	— 0.16	S.	107	20	28.0	+ 4.4	+ 1.5
31	11	19	43.2	F.	I	22	2	11.24	— 0.24	— 0.30	.	102	16.0	....	....	....
Sept. 4	14	13	43.1	Ha.	II	1	12	25.92	— 0.26	— 0.61	.	86	49.3	....	....	....
5	14	58	26.2	T.	II	2	1	12.93	— 0.20	— 0.61	N.	82	43	40.4	+ 4.2	+ 1.2
10	19	17	27.2	F.	II	6	40	39.18	+ 0.28	— 0.41	S.	70	41	13.6	+ 8.7	+ 8.9
21	4	28	5.2	T.	I	16	32	13.13	— 0.17	+ 0.03	N.	106	47	27.5	— 2.4	— 2.0
28	10	0	49.2	Ha.	I	22	33	27.79	— 0.25	— 0.25	S.	100	7	46.3	+ 4.2	+ 1.0
30	11	27	51.3	F.	I	0	8	37.14	— 0.12	— 0.30	N.	92	20	58.9	+ 11.0	+ 6.6
Oct. 1	12	11	40.3	T.	II	0	56	29.96	— 0.22	— 0.44	S.	88	8	12.2	+ 8.6	+ 4.0
5	15	22	6.6	N.	II	4	23	13.59	+ 0.11	— 0.37	N.	73	29	44.6	+ 2.4	+ 1.8
8	18	7	46.9	N.	II	7	21	10.89	+ 0.15	— 0.77	N.	70	52	12.4	— 0.8	— 0.8
22	5	38	42.9	N.	I	19	45	15.60	— 0.34	— 0.17	S.	108	45	49.3	+ 6.6	+ 2.0
23	6	26	2.5	F.	I	20	36	39.53	— 0.38	— 0.23	S.	107	6	19.2	+ 7.2	+ 2.9
24	7	11	49.6	T.	I	21	36	30.67	— 0.28	— 0.10	S.	104	40	47.2	+ 5.7	+ 1.9
26	8	39	58.6	E.	I	23	2	47.31	— 0.43	— 0.30	S.	98	1	16.4	+ 2.9	+ 0.1
28	10	6	59.8	T.	I	0	37	55.85	— 0.27	— 0.27	S.	89	49	18.0	— 6.6	— 8.1
29	10	51	38.6	E.	I	1	26	38.69	— 0.45	— 0.56	S.	85	31	25.7	+ 5.2	+ 3.6
30	11	37	55.6	F.	I	2	17	0.13	— 0.11	— 0.24	S.	81	20	10.9	+ 6.0	+ 4.1
Nov. 2	14	10	57.3	N.	II	5	2	16.73	— 0.19	— 0.33	S.	71	49	22.1	— 0.2	— 1.0
5	17	0	36.1	N.	II	8	4	13.62	+ 0.42	— 0.43	S.	71	36	13.9	— 2.6	— 3.7
6	17	56	52.5	E.	II	9	4	34.73	+ 0.58	— 0.36	S.	74	1	0.5	+ 2.8	0.0
18	3	30	0.4	T.	I	19	22	38.87	— 0.41	— 0.23	S.	109	27	37.7	+ 2.9	— 0.8
19	4	18	44.3	N.	I	20	15	27.81	— 0.27	— 0.11	S.	108	9	37.8	+ 5.2	+ 9.3
21	5	50	43.1	T.	I	21	55	34.41	— 0.37	— 0.16	S.	103	11	55.2	+ 7.3	+ 3.5
23	7	17	33.2	N.	I	23	30	31.91	— 0.44	— 0.16	S.	95	58	33.9	+ 1.4	— 1.7
26	9	29	34.8	F.	.	1	54.8	....	....	....	S.	83	15	2.6	+ 4.1	+ 2.7
27	10	17	9.4	T.	I	2	46	23.77	— 0.35	— 0.31	S.	79	9	22.3	+ 2.5	+ 2.0
30	12	57	34.2	T.	II	5	39	4.59	— 0.27	— 0.38	S.	70	44	4.9	+ 7.5	+ 7.5
Dec. 1	13	55	52.0	T.	II	6	41	28.51	— 0.25	— 0.46	S.	70	6	40.8	+ 0.6	+ 1.0
2	14	54	40.6	F.	II	7	44	23.42	+ 0.10	— 0.28	S.	70	51	14.1	+ 0.8	+ 2.6
5	17	42	23.2	T.	II	10	44	23.17	+ 0.27	— 0.49	S.	80	8	16.1	+ 5.0	+ 1.1
8	20	14	23.0	T.	II	13	28	37.67	+ 0.21	— 0.13	.	94	36.1	....	....	....
17	2	58	42.4	N.	I	20	45	35.86	— 0.13	0.00	.	107	13.2	....	....	....
18	3	44	50.8	F.	I	21	35	48.50	— 0.17	— 0.03	S.	104	39	49.5	— 0.3	— 1.0
19	4	29	13.4	T.	I	22	24	14.89	— 0.29	— 0.17	S.	102	9	26.3	+ 2.1	+ 3.6
21	5	54	45.5	N.	I	23	57	54.19	— 0.17	+ 0.02	S.	93	51	30.6	+ 2.1	— 1.0
22	6	37	20.8	F.	I	0	44	33.00	— 0.71	— 0.42	S.	89	39	49.0	+ 2.2	— 0.7
23	7	20	57.5	T.	I	1	32	13.47	— 0.38	+ 0.01	S.	85	23	47.9	+ 3.1	0.0

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of—	
					Peirce.	Hansen.			Peirce.	Hansen.
1868.	h m s			h m s	s	s		° ′ ″	″	″
Dec. 24	8 6 28.3	N.	I	2 21 48.25	− 0.37	+ 0.03	S.	81 13 11.1	+ 2.7	0.0
25	8 54 54.0	F.	I	3 14 8.50	− 0.35	− 0.07	S.	77 20 17.6	+ 4.1	+ 2.0
26	9 46 24.2	T.	I	4 9 53.74	− 0.15	− 0.04	S.	74 0 26.1	+ 0.3	− 1.3
1869.										
Jan. 19	5 15 19.0	F.	I	1 12 41.36	− 0.08	+ 0.02	S.	87 17 8.4	+ 1.0	− 1.5
20	5 58 50.7	N.	I	2 0 16.80	− 0.06	+ 0.08	S.	83 8 6.4	+ 2.8	+ 0.8
22	7 32 57.3	F.	I	3 42 31.93	− 0.07	− 0.08	S.	75 38 29.2	− 0.2	− 1.1
23	8 25 1.9	F.	I	4 38 41.12	+ 0.18	+ 0.06	S.	72 45 7.9	+ 2.9	+ 1.9
27	12 22 3.4	F.	II	8 52 8.34	+ 0.17	− 0.15	S.	72 59 8.4	− 3.8	− 3.6
Feb. 1	16 58 6.6	N.	.	13 48.7	....	....	S.	95 51 27.7	− 0.1	− 1.8
4	19 29 17.8	F.	II	16 32 5.36	+ 0.17	− 0.50	S.	106 56 51.0	− 0.6	− 1.8
5	20 19 49.9	T.	II	17 26 42.28	0.00	− 0.62	.	108 53.7	....	....
13	1 48 48.6	T.	I	23 24 8.87	− 0.22	− 0.02	.	96 56.4	....	....
16	3 55 27.4	F.	I	1 43 59.58	− 0.07	0.00	.	84 37.0	....	....
19	6 14 20.1	F.	I	4 14 5.36	+ 0.24	− 0.04	S.	73 53 16.8	− 2.3	− 1.3
20	7 6 33.2	T.	I	5 10 23.36	+ 0.55	− 0.03	S.	71 33 39.1	0.0	+ 1.3
24	11 0 39.9	T.	I	9 20 55.33	− 0.16	− 0.16	N.	74 23 37.0	− 1.6	− 0.3
26	12 57 12.7	F.	II	11 25 39.09	− 0.14	− 0.34	S.	83 11 55.9	− 1.5	0.0
27	13 52 43.6	T.	II	12 55 16.56	− 0.05	− 0.43	S.	88 26 55.1	+ 5.3	+ 6.7
Mar. 4	18 15 36.7	N.	II	17 8 35.58	+ 0.23	− 0.47	S.	108 25 21.3	− 5.3	− 6.7
5	19 6 46.4	F.	II	18 3 50.27	+ 0.12	− 0.53	.	109 41.9	....	....
6	19 57 4.7	F.	II	18 58 13.36	− 0.10	− 0.71	.	109 55.0	....	....
8	21 23 43.1	F.	II	20 43 0.72	+ 0.14	− 0.44	.	107 26.9	....	....
18	4 9 56.7	N.	I	3 55 48.64	+ 0.08	+ 0.09	S.	74 43 27.4	− 1.1	− 1.1
20	5 52 39.4	T.	I	5 46 41.06	+ 0.27	+ 0.01	N.	70 28 51.6	+ 0.7	+ 3.4
21	6 47 58.2	N.	I	6 46 5.42	+ 0.50	0.00	N.	69 56 31.2	− 1.4	+ 0.6
23	8 43 11.0	F.	I	8 49 30.49	+ 0.63	− 0.04	N.	72 45 55.6	+ 1.0	− 0.1
24	9 41 6.8	T.	I	9 51 32.24	+ 0.36	+ 0.06	N.	76 6 24.7	+ 1.9	+ 1.0
27	12 29 24.7	T.	II	12 52 7.48	− 0.28	− 0.34	N.	90 56 30.2	− 1.3	− 0.6
30	15 12 8.1	F.	II	15 47 7.22	+ 0.25	− 0.40	S.	104 50 38.1	+ 2.5	− 1.3
31	16 5 55.6	T.	II	16 44 59.53	+ 0.22	− 0.49	.	107 44.5	....	....
Apr. 3	18 41 41.8	T.	II	19 33 1.53	− 0.10	− 0.57	N.	109 41 37.8	+ 1.7	+ 0.8
4	19 30 22.2	N.	II	20 25 44.52	− 0.14	− 0.57	N.	108 16 5.3	+ 1.4	+ 1.2
5	20 17 1.2	F.	II	21 16 29.85	− 0.16	− 0.63	N.	116 0 13.2	− 0.8	− 0.8
6	21 1 55.8	T.	II	22 5 27.93	− 0.07	− 0.51	N.	103 2 53.6	+ 5.8	+ 6.5
7	21 45 24.8	N.	II	22 22 59.95	+ 0.05	− 0.44	.	99 31.5	....	....
15	2 56 57.5	N.	I	4 33 0.74	+ 0.38	+ 0.23	.	72 39.0	....	....
16	3 48 42.6	F.	.	5 29.1	....	....	N.	70 39 59.4	+ 7.2	+ 8.6
17	4 42 40.4	Ha.	I	6 26 54.06	+ 0.29	+ 0.23	N.	69 45 1.8	+ 1.3	+ 3.8
19	6 34 17.8	N.	I	8 26 42.87	+ 0.01	− 0.11	N.	71 37 22.2	− 2.4	− 0.2
21	8 25 38.0	Ha.	I	10 26 14.53	+ 0.20	− 0.08	N.	78 17 57.7	− 0.2	− 0.6
22	9 20 9.1	N.	I	11 24 51.15	+ 0.27	− 0.01	N.	82 59 56.2	+ 0.9	− 0.3
24	11 7 47.6	F.	I	13 20 40.44	− 0.10	− 0.21	N.	93 31 53.6	− 1.7	− 2.5
29	15 40 19.9	N.	II	18 13 40.22	+ 0.06	− 0.37	N.	110 14 22.2	+ 4.0	− 0.4
May 2	18 12 2.9	N.	II	20 57 37.65	− 0.28	− 0.53	N.	107 11 59.4	+ 3.5	+ 1.8
3	18 58 5.2	F.	II	21 47 44.29	− 0.19	− 0.44	N.	104 26 33.3	+ 3.6	+ 3.1
17	5 25 56.3	N.	I	9 8 33.66	+ 0.26	− 0.02	N.	73 11 21.4	+ 2.6	+ 3.8
20	8 5 57.1	N.	I	12 0 50.48	+ 0.05	− 0.13	N.	85 59 8.9	− 0.7	− 1.1
22	9 49 58.5	F.	I	13 53 2.03	+ 0.11	− 0.18	N.	96 19 56.0	− 0.9	− 1.7
24	11 36 52.3	N.	I	15 48 6.90	− 0.10	− 0.26	N.	105 5 19.8	− 0.1	− 1.1
25	12 31 43.7	F.	II	16 47 2.50	− 0.45	− 0.48	N.	108 6 48.3	+ 2.5	+ 0.5
26	13 26 46.8	Ha.	.	17 46.2	....	....	N.	109 57 51.6	+ 3.6	+ 0.7
June 5	21 11 1.9	N.	II	2 11 9.14	− 0.37	− 0.62	.	82 9.8	....	....
1870.										
Feb. 9	6 55 33.0	E.	I	4 15 1.91	− 0.55	− 0.41	S.	73 1 1.3	− 3.9	− 3.5
10	7 44 38.3	F.	I	5 8 12.82	− 0.04	+ 0.07	S.	70 30 22.6	+ 3.4	+ 3.7
12	9 31 44.1	E.	I	7 3 28.32	− 0.06	− 0.09	N.	68 35 12.4	+ 0.6	+ 0.4
13	10 28 27.2	F.	I	8 4 17.61	− 0.08	− 0.20	N.	69 33 30.3	− 1.1	− 0.9
16	13 18 1.9	F.	II	11 6 9.62	+ 0.20	− 0.34	N.	80 11 42.0	+ 2.4	+ 2.9

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of—	
					Peirce.	Hansen.			Peirce.	Hansen.
1870.	h m s			h m s	s	s		° ′ ″	″	″
Feb. 20	16 50 40.5	Ha.	II	14 55 9.33	+ 0.15	− 0.73	S.	101 31 10.2	− 2.1	− 6.0
21	17 44 12.8	E.	II	15 42 46.98	+ 0.13	− 0.70	.	105 42.3	....	....
Mar. 7	4 4 21.7	Ha.	I	3 5 52.92	− 0.25	− 0.22	.	77 31.4	....	....
9	5 35 57.4	F.	I	4 45 36.70	− 0.24	− 0.27	S.	71 16 19.5	− 3.7	− 2.4
10	6 25 36.5	Ha.	I	5 39 20.59	0.00	− 0.11	S.	69 19 57.5	− 0.1	+ 1.3
11	7 17 54.8	E.	I	6 35 43.99	+ 0.17	− 0.21	N.	68 26 25.3	− 2.5	− 1.3
16	11 56 5.9	Ha.	I	11 34 23.59	+ 0.21	− 0.20	N.	82 43 46.5	+ 0.8	+ 0.5
18	13 45 22.2	F.	II	13 31 50.94	+ 0.39	− 0.35	N.	94 10 44.5	− 0.1	− 2.1
19	14 40 9.7	Ha.	II	14 30 43.97	+ 0.28	− 0.56	S.	99 38 32.2	− 0.7	− 4.0
23	18 23 57.1	E.	II	18 30 54.37	+ 0.15	− 0.69	.	111 37.5	....	....
24	19 18 25.8	F.	II	19 29 28.58	+ 0.08	− 0.66	.	111 38.3	....	....
Apr. 8	6 2 24.7	F.	I	7 10 24.93	− 0.49	− 0.31	.	111 46.2	....	....
12	9 39 14.3	Ha.	I	11 3 36.37	+ 0.25	− 0.21	N.	79 51 17.6	+ 0.6	− 1.6
22	18 57 30.2	E.	II	21 2 49.57	− 0.04	− 0.66	.	108 38.1	....	....
23	19 45 47.8	F.	II	21 55 10.66	− 0.08	− 0.64	.	105 33.6	....	....
25	21 14 27.8	F.	II	23 31 59.29	+ 0.25	− 0.45	.	97 39.3	....	....
May 4	3 6 27.1	E.	I	5 56 28.89	+ 0.13	+ 0.05	.	68 27.7	....	....
8	6 36 1.6	F.	I	9 42 24.01	− 0.18	− 0.08	N.	73 26 50.5	− 0.8	+ 1.6
9	7 28 24.7	Ha.	I	10 38 52.21	− 0.02	− 0.12	N.	77 32 50.6	− 0.7	− 0.3
11	9 12 55.3	F.	I	12 31 33.21	− 0.13	− 0.42	N.	83 3 53.9	+ 4.7	+ 4.0
12	10 6 13.7	Ha.	I	13 28 56.89	0.00	− 0.20	N.	93 52 0.9	− 1.1	− 1.7
14	11 58 12.5	F.	I	15 29 7.24	+ 0.01	− 0.25	N.	104 32 15.3	+ 2.7	+ 0.6
15	12 57 15.0	Ha.	II	16 32 15.93	− 0.03	− 0.46	N.	108 30 55.8	+ 3.9	− 0.2
16	13 57 27.6	E.	II	17 36 34.95	+ 0.28	− 0.33	N.	111 6 15.2	+ 5.1	0.0
June 7	7 5 12.5	E.	I	12 9 56.42	+ 0.07	− 0.12	N.	85 42 49.2	− 2.6	− 2.6
8	7 56 4.5	F.	I	13 4 53.28	− 0.02	− 0.15	N.	91 17 37.3	+ 1.0	+ 0.9
10	9 42 32.4	E.	.	14 59.4	....	....	N.	102 9 48.2	+ 1.8	+ 1.8
11	10 39 23.4	S.	I	16 0 28.71	− 0.23	− 0.44	N.	106 39 41.8	− 0.3	− 1.0
14	13 38 57.2	F.	II	19 12 21.69	− 0.03	− 0.49	N.	112 10 27.9	+ 6.0	+ 1.9
17	16 20 52.4	F.	II	22 6 33.19	+ 0.02	− 0.53	N.	105 10 24.1	+ 4.3	+ 2.2
18	17 7 33.3	S.	II	22 57 18.12	− 0.32	− 0.74	.	101 9.8	....	....
19	17 51 28.0	E.	II	23 45 16.77	− 0.26	− 0.60	.	96 45.7	....	....
20	18 33 33.0	F.	II	0 31 25.24	− 0.08	− 0.39	N.	92 10 32.6	+ 4.6	+ 3.9
22	19 56 4.6	E.	II	2 2 3.45	− 0.31	− 0.63	N.	83 3 20.3	+ 4.2	+ 3.3
July 5	5 52 15.4	F.	I	12 47 10.90	+ 0.13	− 0.05	N.	89 23 58.3	+ 4.8	+ 3.7
8	8 28 15.5	F.	I	15 35 26.33	+ 0.23	− 0.40	N.	104 54 28.4	+ 1.8	+ 1.1
9	9 24 45.3	S.	I	16 36 1.96	− 0.15	− 0.32	N.	108 40 58.7	+ 0.1	− 1.1
11	11 22 49.5	F.	I	18 42 18.72	+ 0.03	− 0.39	N.	112 13 49.5	− 5.0	− 7.0
13	13 17 31.3	F.	II	20 45 13.45	+ 0.27	− 0.28	N.	109 51 23.9	+ 4.7	+ 2.5
14	14 10 11.3	E.	II	21 41 57.60	+ 0.05	− 0.51	N.	106 51 22.5	+ 3.6	+ 1.5
15	14 59 12.1	S.	II	22 35 3.11	− 0.22	− 0.88	.	103 2.9	....	....
16	15 45 2.2	E.	II	23 24 57.30	− 0.02	− 0.58	N.	98 43 26.6	+ 4.8	+ 4.6
19	17 51 49.4	E.	II	1 43 54.95	− 0.33	− 0.65	N.	84 51 6.9	+ 2.3	+ 3.0
Aug. 4	6 23 27.6	S.	I	15 16 44.98	− 0.21	− 0.20	N.	103 32 23.9	+ 1.6	− 1.4
5	7 17 55.2	Ha.	I	16 15 18.02	− 0.57	− 0.45	N.	107 34 28.6	+ 4.8	+ 2.1
6	8 14 22.5	E.	I	17 51 51.21	− 0.66	− 0.62	N.	110 28 55.3	+ 1.0	− 1.6
8	10 9 53.5	S.	I	19 19 35.27	+ 0.23	− 0.15	S.	112 7 40.7	+ 2.6	+ 0.6
12	13 37 30.4	S.	II	23 3 31.51	− 0.21	− 0.36	.	100 36.0	....	....
1871.										
Aug. 5	16 35 23.9	S.	II	1 33 21.02	− 0.24	− 0.71	.	85 20.7	....	....
8	18 46 41.8	S.	II	3 56 50.21	− 0.36	− 0.73	.	72 14.6	....	....
24	7 12 2.9	E.	I	17 23 21.85	− 0.05	− 0.18	N.	112 32 12.5	+ 4.5	− 0.1
25	8 12 46.1	F.	I	18 28 11.73	+ 0.04	− 0.34	S.	113 58 13.7	+ 3.9	+ 0.2
28	11 11 52.6	F.	I	21 39 37.32	+ 0.08	− 0.49	S.	108 15 18.2	+ 7.3	+ 6.2
30	12 55 23.5	F.	II	23 31 18.38	− 0.24	− 0.40	.	98 31.9	....	....
31	13 42 27.2	Ha.	II	0 22 26.35	− 0.44	− 0.53	N.	93 2 0.6	+ 1.7	+ 2.3
Sept. 2	15 11 39.4	Ha.	II	1 59 46.34	− 0.25	− 0.48	N.	82 18 25.9	− 0.8	+ 3.1
3	15 55 40.1	F.	II	2 47 50.75	− 0.11	− 0.40	N.	77 31 40.9	− 1.8	+ 3.0
4	16 40 20.6	Ha.	II	3 36 35.12	− 0.21	− 0.54	N.	73 22 26.8	− 1.2	+ 3.5

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of— Peirce.	Correction to Tables of— Hansen.	Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of— Peirce.	Correction to Tables of— Hansen.
1871.	h m s			h m s	s	s		° ′ ″	″	″
Sept. 5	17 26 15.1	F.	II	4 26 33.77	− 0.23	− 0.56	N.	69 59 47.6	− 3.4	+ 0.7
6	18 13 41.4	Ha.	II	5 18 4.35	− 0.44	− 0.67	.	67 32.5	....	....
7	19 2 37.5	F.	II	6 11 5.07	− 0.23	− 0.53	S.	66 7 52.7	− 6.1	− 4.2
8	19 52 40.5	Ha.	II	7 5 12.87	− 0.29	− 0.61	S.	65 52 37.1	− 4.8	− 4.1
9	20 43 12.8	F.	II	7 59 50.05	− 0.14	− 0.48	.	66 53.8	....	....
21	6 6 20.6	F.	I	18 7 53.48	+ 0.41	− 0.18	N.	113 56 39.2	+ 5.7	+ 1.3
22	7 6 43.9	S.	I	19 12 22.23	+ 0.23	− 0.36	S.	114 11 0.9	+ 3.4	+ 0.4
23	8 6 9.1	Ha.	I	20 15 53.67	+ 0.18	− 0.38	S.	112 45 20.1	+ 3.0	+ 1.1
26	10 46 52.8	Ha.	I	23 8 53.46	− 0.05	− 0.52	S.	100 48 31.6	+ 0.9	+ 4.3
28	12 19 51.0	S.	II	0 50 0.09	− 0.52	− 0.62	.	89 51.5	....	....
29	13 4 17.5	Ha.	II	1 38 30.41	− 0.48	− 0.55	N.	84 25 37.2	+ 0.6	+ 0.7
30	13 48 30.8	F.	II	2 26 47.53	− 0.27	− 0.37	N.	79 21 11.1	+ 2.3	+ 4.2
Oct. 2	15 19 0.7	Ha.	II	4 5 25.35	− 0.17	− 0.45	N.	71 3 27.9	− 2.2	+ 1.5
3	16 6 8.1	F.	II	4 56 37.11	− 0.06	− 0.41	N.	68 10 15.6	− 3.1	+ 0.4
6	18 34 9.0	F.	II	7 36 52.00	− 0.25	− 0.53	.	66 2.2	....	....
8	20 13 25.6	F.	II	9 24 17.94	− 0.33	− 0.38	.	70 38.2	....	....
17	2 59 46.1	F.	I	16 43 17.62	− 0.43	− 0.29	.	111 16.7	....	....
18	4 0 6.0	Ha.	I	17 47 44.04	− 0.30	− 0.36	.	113 45.7	....	....
19	5 1 21.1	F.	I	18 53 5.69	− 0.25	− 0.52	S.	114 32 19.3	+ 0.9	− 0.9
20	6 1 32.4	Ha.	I	19 57 23.45	+ 0.04	− 0.37	S.	113 35 7.5	+ 1.5	+ 0.8
21	6 58 58.2	F.	I	20 58 55.24	+ 0.11	− 0.35	S.	111 4 48.6	+ 1.4	+ 1.3
22	7 52 47.5	Ha.	I	21 56 50.01	− 0.05	− 0.49	S.	107 19 41.8	− 0.6	− 0.3
27	11 43 8.3	Ha.	I	2 7 31.37	− 0.33	− 0.52	S.	81 15 58.8	+ 1.4	+ 0.4
Nov. 2	16 26 33.0	Ha.	II	7 15 21.97	− 0.07	− 0.47	S.	65 29 13.0	− 0.1	+ 0.8
7	20 26 26.9	Ha.	II	11 35 38.03	− 0.60	− 0.50	.	81 55.6	....	....
17	4 53 24.3	F.	.	20 31.1	....	....	S.	112 13 39.0	− 4.2	− 6.2
18	5 49 28.6	E.	I	21 39 37.52	− 0.60	− 0.44	S.	108 46 3.5	+ 5.0	+ 3.6
Dec. 5	19 3 45.7	F.	II	12 3 6.84	+ 0.05	− 0.35	S.	84 36 7.1	− 2.1	− 5.2
6	19 49 48.2	E.	II	12 53 13.27	− 0.17	− 0.57	S.	90 19 14.8	+ 0.4	− 2.6
16	4 34 56.6	F.	I	22 15 17.12	− 0.71	− 0.49	S.	106 6 29.4	+ 5.6	+ 2.3
18	6 12 36.4	F.	I	0 1 6.11	− 0.25	− 0.32	.	95 37.5	....	....
20	7 40 13.0	F.	I	1 36 50.20	− 0.34	− 0.58	.	84 42.5	....	....
21	8 23 12.0	S.	I	2 23 52.82	− 0.01	− 0.28	S.	79 38 38.5	− 5.2	− 6.0
25	11 27 14.2	S.	I	5 44 11.52	− 0.13	− 0.34	.	66 10.3	....	....
27	13 6 39.1	E.	II	7 31 45.86	− 0.50	− 0.58	N.	65 37 19.5	− 4.3	− 2.8
1872.										
Jan. 13	3 14 48.7	F.	I	22 45 19.67	− 0.13	− 0.60	.	103 22.8	....	....
16	5 36 57.6	E.	I	1 19 41.60	− 0.37	− 0.41	S.	86 32 10.7	+ 4.0	+ 4.9
17	6 20 44.7	F.	I	2 7 32.50	− 0.25	− 0.42	S.	81 14 45.3	+ 1.1	+ 1.6
21	9 23 20.4	F.	.	5 27.4	....	....	S.	66 40 42.7	+ 0.3	+ 0.3
24	11 52 7.0	E.	I	8 7 25.09	− 0.20	− 0.51	N.	66 31 47.6	− 2.9	− 2.2
25	12 40 50.8	F.	II	9 0 13.44	+ 0.03	− 0.29	.	68 49.7	....	....
26	13 28 4.6	S.	II	9 51 31.61	− 0.10	− 0.46	.	72 8.9	....	....
30	16 26 11.8	S.	II	13 5 54.30	+ 0.12	− 0.52	.	92 0.6	....	....
31	17 11 48.7	Ha.	II	13 55 35.27	+ 0.31	− 0.50	.	97 36.0	....	....
Feb. 1	18 0 2.0	E.	II	14 47 52.98	+ 0.38	− 0.71	S.	102 57 30.2	+ 3.1	− 7.6
3	19 48 25.9	S.	II	16 44 27.87	+ 0.93	− 0.57	.	111 36.9	....	....
15	5 44 14.2	S.	I	3 25 16.06	− 0.40	− 0.49	S.	73 36 12.6	+ 0.7	+ 1.9
16	6 30 32.2	Ha.	I	4 15 38.29	− 0.41	− 0.42	S.	69 55 46.8	− 1.8	− 1.6
21	10 35 51.4	E.	I	8 41 20.23	− 0.17	− 0.50	N.	67 49 35.0	− 0.4	− 1.2
22	11 23 53.2	F.	I	9 33 26.76	+ 0.03	− 0.38	N.	70 51 33.3	− 1.0	− 1.7
23	12 10 29.1	S.	II	10 24 6.93	+ 0.01	− 0.42	.	74 50.2	....	....
25	13 40 20.4	E.	II	12 2 6.01	+ 0.09	− 0.35	S.	84 51 16.7	− 0.3	− 2.9
26	14 24 49.8	F.	II	12 50 39.32	+ 0.21	− 0.27	S.	90 27 26.0	+ 1.2	− 3.3
27	15 10 12.0	S.	II	13 40 5.51	+ 0.08	− 0.46	S.	96 8 4.2	+ 2.7	− 3.4
Mar. 4	20 42 9.0	E.	II	9 36 36.38	− 0.01	− 0.76	.	114 28.9	....	....
16	5 59 38.0	E.	I	5 38 59.06	− 0.61	− 0.58	S.	65 50 3.4	− 1.4	− 1.6
18	7 39 22.1	S.	I	7 26 52.63	− 0.54	− 0.47	N.	65 13 14.7	+ 1.4	− 0.1

MOON—Continued.

Date.		Mean Time of Transit of Center.			Observer.	Limb.	Apparent Right Ascension of Center.			Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.			Correction to Tables of—	
										Peirce.	Hansen.					Peirce.	Hansen.
1872.		h	m	s			h	m	s	s	s		°	′	″	″	″
Mar.	19	8	38	49.1	Ha.	I	8	20	24.26	− 0.32	− 0.28	N.	66	43	51.1	+ 1.3	− 0.2
	20	9	17	13.2	F.	.	9	12.9	....	....	....	N.	69	22	39.7	+ 0.6	− 1.4
	21	10	4	19.9	E.	I	10	4	3.95	− 0.15	− 0.35	N.	73	2	31.7	− 2.3	− 4.5
	24	12	20	26.8	E.	I	12	32	22.91	+ 0.02	− 0.37	N.	88	24	41.2	+ 6.2	− 2.9
	29	16	34	16.1	F.	II	17	6	36.60	+ 0.53	− 0.62	.	113	9.7	....	....	....
	31	18	35	5.2	Ha.	II	19	15	38.62	+ 0.34	− 0.96	N.	115	4	13.3	+ 0.2	− 0.1
Apr.	1	19	35	21.9	F.	II	20	20	1.82	+ 0.54	− 0.72	N.	113	24	59.0	+ 1.0	+ 2.2
	3	21	27	39.2	Ha.	II	22	20	30.67	+ 0.48	− 0.74	.	105	38.7	....	....	....
	10	[illegible]	13	31.8	F.	I	3	30	49.36	− 0.36	− 0.59	S.	72	40	53.8	− 2.9	− 1.2
	13	4	40	56.3	E.	I	6	10	27.95	− 0.33	− 0.34	.	64	54.7	....	....	....
	16	7	9	32.2	S.	I	8	51	17.88	− 0.50	− 0.27	.	67	55.9	....	....	....
	17	7	56	45.8	E.	I	9	42	35.76	− 0.79	− 0.58	N.	71	10	56.9	+ 1.2	0.0
	19	9	27	45.0	Ha.	I	11	21	43.03	− 0.06	− 0.13	N.	80	17	7.6	− 0.6	− 2.8
	20	10	12	37.0	S.	I	12	10	39.01	+ 0.05	− 0.22	N.	85	47	40.1	+ 7.5	+ 4.1
	21	10	58	10.8	E.	I	13	0	16.77	− 0.13	− 0.47	N.	91	39	32.9	+ 1.5	− 2.5
	22	11	45	26.8	F.	I	13	51	37.13	+ 0.08	− 0.32	N.	97	36	24.7	+ 0.4	− 3.8
	23	12	35	25.4	Ha.	II	14	45	40.51	− 0.01	− 0.46	S.	103	18	10.0	+ 1.6	− 2.8
	25	14	16	16.8	E.	.	16	44.3	....	....	....	S.	112	17	51.3	+ 2.1	− 3.5
	29	18	29	6.3	E.	II	21	3	58.87	+ 0.54	− 0.74	N.	111	26	49.4	− 3.8	+ 0.1
May	11	3	23	20.8	E.	I	6	43	3.24	− 0.33	− 0.53	.	64	30.6	....	....	....
	16	7	20	16.8	S.	I	11	0	20.69	− 0.47	− 0.23	N.	77	55	14.8	− 2.2	− 2.1
	19	9	34	29.0	E.	I	13	26	44.70	− 0.04	− 0.35	N.	94	42	23.6	+ 3.5	+ 1.3
	20	10	22	55.4	F.	I	14	19	15.79	+ 0.07	− 0.41	N.	100	35	11.5	+ 1.1	− 2.3
	21	11	15	6.2	Ha.	I	15	15	31.65	+ 0.21	− 0.37	N.	106	3	56.5	+ 1.4	+ 6.5
	23	13	12	44.4	S.	II	17	21	22.30	+ 0.21	− 0.61	.	114	19.8	....	....	....
	26	16	22	25.2	E.	II	20	43	23.98	+ 0.45	− 0.86	N.	112	28	31.0	− 0.1	+ 1.4
	27	17	19	56.1	F.	II	21	45	0.79	+ 0.16	− 0.90	N.	108	48	23.0	− 1.5	+ 2.4
	28	18	12	56.5	Ha.	II	22	42	6.46	+ 0.38	− 0.77	N.	103	54	24.8	− 4.8	+ 0.4
	30	19	48	28.8	E.	II	0	25	47.58	− 0.15	− 0.42	N.	93	32	29.2	+ 2.6	+ 6.1
	31	20	33	20.8	E.	II	1	14	43.54	+ 0.04	− 0.71	N.	86	43	10.7	− 1.8	+ 2.9
June	12	5	15	12.9	F.	I	10	41	23.39	− 0.24	− 0.23	N.	76	1	54.4	− 4.3	− 4.4
	13	5	58	27.1	F.	I	11	28	41.34	− 0.08	− 0.07	N.	80	54	35.3	− 4.1	− 4.0
	17	9	0	24.9	F.	I	14	46	55.11	+ 0.15	− 0.17	N.	103	24	33.7	− 1.5	− 2.5
	18	9	54	10.2	Ha.	I	15	44	45.98	+ 0.18	− 0.27	N.	108	28	23.4	+ 0.6	− 1.0
	26	17	46	17.3	Ha.	II	0	9	43.07	+ 0.33	− 0.71	.	94	23.3	....	....	....
	30	20	47	10.4	S.	II	3	26	52.13	− 0.41	− 0.10	.	64	28.7	....	....	....
July	19	11	45	48.8	F.	I	19	38	56.22	− 0.09	− 0.56	S.	114	54	18.8	+ 2.6	+ 1.2
Aug.	7	2	37	8.4	E.	I	11	43	40.26	− 0.28	− 0.29	.	103	17.4	....	....	....
	17	11	31	45.7	Ha.	I	21	19	10.90	− 0.20	− 0.52	S.	110	28	52.4	+ 3.3	+ 1.7
	25	18	25	11.0	Ha.	II	4	35	14.92	− 0.16	− 0.89	N.	67	48	46.5	− 0.5	+ 2.8
Sept.	14	10	14	4.6	F.	I	21	51	40.54	0.00	− 0.49	S.	108	11	15.2	+ 5.5	+ 2.9
	18	13	40	43.7	F.	II	1	34	39.85	− 0.50	− 0.51	.	83	43.7	....	....	....
Oct.	9	6	5	15.6	S.	I	19	20	44.56	− 0.35	− 0.46	S.	115	44	53.2	+ 4.6	+ 1.8
	21	16	30	8.2	S.	II	6	34	38.49	− 0.19	− 0.70	.	63	52.2	....	....	....
	25	19	43	35.4	S.	II	10	4	23.68	− 0.50	− 0.57	.	72	38.2	....	....	....
	26	20	27	21.2	E.	II	10	52	13.16	− 0.64	− 0.62	S.	77	10	58.9	− 4.5	− 5.3
Nov.	4	2	58	3.4	F.	I	17	55	32.05	+ 0.02	− 0.35	.	115	43.1	....	....	....
	7	5	59	18.6	E.	.	21	9.1	....	....	....	S.	111	34	11.0	+ 5.1	+ 6.4
	8	6	54	24.4	F.	I	22	8	18.01	− 0.05	− 0.52	S.	107	4	55.0	− 0.3	− 1.0
	12	10	9	13.4	F.	I	1	39	25.43	− 0.02	− 0.47	S.	83	8	24.6	+ 1.3	+ 1.9
	16	13	27	18.0	F.	II	5	13	48.60	− 0.29	− 0.75	N.	65	29	48.5	+ 1.3	+ 1.8
	18	15	11	52.6	S.	II	7	6	33.49	+ 0.15	− 0.40	.	63	53.7	....	....	....
	20	16	51	2.7	F.	II	8	53	52.01	− 0.12	− 0.58	S.	67	29	18.0	− 2.0	− 5.1
Dec.	4	3	53	2.5	S.	I	20	48	56.78	− 0.04	− 0.42	.	112	46.6	....	....	....
	6	5	43	38.2	S.	I	22	47	43.81	− 0.19	− 0.48	S.	103	20	38.8	+ 1.3	+ 2.2
	7	6	33	12.3	S.	I	23	41	22.61	− 0.15	− 0.44	S.	97	26	27.7	− 0.1	+ 1.0
	9	8	6	21.1	E.	I	1	22	39.89	− 0.25	− 0.58	S.	85	8	18.8	+ 1.2	+ 1.3
	12	10	28	17.2	S.	I	3	56	48.98	0.00	− 0.49	S.	69	45	52.0	+ 3.0	+ 2.5
	13	11	18	52.1	E.	I	4	51	29.75	− 0.17	− 0.60	N.	66	28	40.4	− 1.4	− 1.4

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of—	
					Peirce.	Hansen.			Peirce.	Hansen.
1873.	h m s			h m s	s	s		° ′ ″	″	″
Jan. 30	2 16 11.5	E.	I	22 56 33.74	+ 0.26	− 0.55	.	102 7.5	....	....
Feb. 7	8 53 28.0	E.	I	6 6 27.96	− 0.27	− 0.71	N.	63 56 8.2	+ 0.6	+ 0.9
8	9 44 55.0	F.	I	7 1 59.95	− 0.16	− 0.64	N.	63 48 37.7	− 1.0	− 0.7
Mar. 7	7 40 31.1	E.	I	6 43 42.61	− 0.47	− 0.59	N.	63 28 51.4	− 2.8	− 2.3
10	10 7 35.4	S.	I	9 23 0.67	− 0.01	− 0.51	N.	69 26 8.2	− 2.1	− 2.7
16	14 19 59.4	F.	II	13 59 45.44	+ 0.33	− 0.15	.	99 59.3	....	....
31	2 52 48.6	E.	I	3 29 50.10	+ 0.26	− 0.47	.	71 1.0	....	....
Apr. 4	6 25 7.5	E.	I	7 18 30.09	− 0.58	− 0.51	N.	63 36 54.9	+ 1.1	+ 1.2
8	9 32 3.5	E.	I	10 41 43.00	− 0.38	− 0.44	N.	76 16 23.1	− 0.7	− 1.0
13	13 2 11.6	F.	II	14 32 8.39	+ 0.15	− 0.37	.	103 37.0	....	....
19	18 34 29.4	S.	II	20 29 0.12	+ 0.70	− 0.10	N.	114 6 25.0	− 1.7	+ 1.3
May 5	7 27 43.5	E.	I	10 23 29.57	− 0.59	− 0.28	N.	74 20 6.5	+ 1.2	+ 2.2
6	8 9 42.8	E.	I	11 9 32.37	− 0.69	− 0.35	N.	74 12 29.4	− 4.0	− 2.5
9	10 13 1.3	E.	I	13 25 0.78	− 0.27	− 0.21	N.	95 54 6.4	+ 4.5	+ 5.8
12	12 34 24.9	S.	II	15 58 37.23	− 0.48	− 0.91	.	111 15.7	....	....
13	13 29 30.7	E.	II	16 57 48.61	+ 0.22	− 0.54	S.	114 39 42.1	+ 2.4	− 2.5
16	16 29 31.5	S.	II	20 10 8.25	+ 0.80	− 0.36	.	115 0.1	....	....
17	17 27 40.2	E.	II	21 12 23.54	+ 0.55	− 0.86	N.	111 36 15.5	+ 0.4	+ 5.4
June 3	6 45 52.7	Hn.	I	11 35 52.06	− 0.69	− 0.43	N.	82 18 28.2	− 6.3	− 5.4
7	9 34 33.4	Hn.	I	14 40 46.72	− 0.21	− 0.11	.	104 31.3	....	....
8	10 23 44.6	F.	I	15 34 2.50	− 0.25	− 0.36	N.	110 24 14.3	− 2.0	− 3.0
12	14 20 27.1	F.	II	19 47 10.17	+ 0.35	− 0.72	.	115 46.0	....	....
13	15 21 7.6	S.	II	20 51 57.16	+ 0.47	− 0.81	N.	112 50 28.6	+ 3.4	+ 4.7
16	18 1 30.1	F.	II	23 44 35.67	+ 0.21	− 0.91	.	96 34.7	....	....
19	20 24 32.2	Hn.	II	2 19 50.94	− 0.18	− 1.04	N.	77 38 41.0	+ 6.6	+ 10.3
July 7	9 59 36.2	E.	I	17 4 10.30	+ 0.06	− 0.31	N.	114 57 50.8	+ 1.0	0.0
11	14 7 52.6	F.	II	21 28 53.81	+ 0.58	− 0.51	N.	110 13 9.1	+ 5.9	+ 7.6
16	18 22 33.1	E.	II	2 3 58.94	− 0.05	− 1.10	N.	79 12 58.2	+ 2.7	+ 8.6
30	4 38 36.0	Hn.	I	13 12 58.21	− 0.31	− 0.24	N.	94 51 9.0	− 6.1	− 8.3
Aug. 2	6 51 36.0	Hn.	.	15 38.2	....	....	N.	110 2 54.9	+ 1.8	+ 0.7
5	9 43 40.1	E.	I	18 42 31.74	− 0.34	− 0.63	S.	116 54 22.1	+ 3.8	+ 3.0
6	10 47 20.0	Hn.	I	19 50 18.73	+ 0.07	− 0.48	N.	115 38 32.5	+ 5.6	+ 5.2
7	11 50 3.3	F.	I	20 57 8.88	+ 0.22	− 0.57	S.	112 23 36.3	+ 4.6	+ 5.4
9	13 45 37.4	E.	II	23 0 55.13	+ 0.19	− 0.74	N.	101 19 58.4	− 0.6	+ 4.1
10	14 38 11.5	Hn.	II	23 57 34.37	+ 0.15	− 0.70	N.	94 34 12.4	− 1.2	+ 4.8
15	18 50 13.4	F.	II	4 30 0.51	+ 0.17	− 0.90	.	66 24.0	....	....
30	5 34 28.5	Hn.	I	16 11 13.12	− 0.35	− 0.25	N.	112 39 9.5	+ 6.0	+ 2.3
Sept. 2	8 27 58.7	Hn.	I	19 17 1.54	− 0.62	− 0.61	S.	116 41 8.7	+ 3.2	+ 3.2
4	10 30 37.8	F.	I	21 27 53.90	− 0.21	− 0.56	S.	110 57 18.4	+ 6.2	+ 5.0
5	11 28 24.4	S.	I	22 29 46.56	− 1.09	− 0.66	S.	104 39 37.2	+ 1.0	+ 2.1
6	12 23 11.8	Hn.	II	23 28 39.49	− 0.04	− 0.68	.	98 1.4	....	....
11	16 43 26.0	Hn.	II	4 9 19.21	− 0.47	− 1.08	N.	67 22 16.1	− 8.9	− 5.7
27	4 21 44.6	Hn.	I	16 48 40.78	− 0.22	− 0.36	N.	114 55 30.1	+ 6.7	+ 1.1
30	7 15 22.7	E.	I	19 54 37.12	− 0.33	− 0.50	S.	115 49 0.0	+ 6.1	+ 2.7
Oct. 3	10 6 43.6	S.	I	22 58 15.79	− 0.16	− 0.56	S.	101 38 41.7	+ 4.0	+ 2.4
5	11 51 22.1	Hn.	I, II	0 51 4.50	− 0.22	− 0.70	.	87 33.8	....	....
7	13 35 59.5	S.	II	2 43 52.28	− 0.41	− 0.63	.	74 17.5	....	....
8	14 30 22.6	E.	II	3 42 20.88	− 0.88	− 0.95	N.	69 5 53.2	− 0.5	+ 1.2
12	18 22 30.2	E.	II	7 40 51.18	− 0.38	− 0.78	S.	63 39 39.5	− 0.5	− 2.0
25	3 12 32.4	Hn.	.	17 29.7	....	....	N.	116 33 15.0	+ 3.6	− 2.1
30	7 55 40.9	F.	I	22 33 18.58	− 0.01	− 0.37	S.	104 27 41.8	− 5.0	− 5.0
Nov. 3	11 19 50.4	F.	I	2 13 47.75	− 0.18	− 0.72	S.	77 28 32.8	+ 2.2	+ 3.9
5	13 9 31.1	E.	II	4 11 39.62	− 0.53	− 0.92	N.	67 0 37.7	+ 3.7	+ 5.3
14	20 33 30.3	F.	II	12 12 20.80	− 0.34	− 0.36	.	87 37.2	....	....
25	4 57 50.7	E.	I	21 17 29.55	+ 0.24	− 0.31	S.	111 17 25.9	+ 2.0	+ 3.3
27	6 41 59.3	S.	I	23 9 48.42	− 0.12	− 0.44	.	100 20.8	....	....
28	7 30 59.4	E.	.	0 2.8	....	....	S.	93 47 11.8	− 7.9	− 5.9
29	8 19 28.9	Sk.	I	0 55 27.17	+ 0.13	− 0.25	S.	86 59 43.6	− 1.5	+ 0.5
Dec. 9	17 7 43.6	S.	II	10 24 34.18	− 0.37	− 0.70	S.	74 43 49.3	− 2.4	− 3.4

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of—	
					Peirce.	Hansen.			Peirce.	Hansen.
1873.	h m s			h m s	s	s		° ′ ″	″	″
Dec. 13	19 45 27.2	S.	II	13 21 30.49	− 0.47	− 0.41	S.	96 22 47.3	− 7.9	− 9.8
14	20 30 2.6	Sk.	II	14 7 9.20	− 0.64	− 0.57	S.	101 50 44.0	− 3.0	− 4.3
30	9 39 14.0	Sk.	I	4 17 38.70	+ 0.44	− 0.45	S.	66 35 57.5	− 1.9	+ 0.2
31	10 35 46.2	E.	I	5 18 16.71	+ 0.31	− 0.58	N.	63 48 37.4	+ 1.6	+ 2.7
1874.										
Jan. 10	18 23 29.7	S.	II	13 46 47.60	− 0.29	− 0.40	.	99 42.1	....	....
11	19 5 57.5	Sk.	II	14 33 13.99	− 0.24	− 0.42	.	104 54.3	....	...
22	4 13 43.9	S.	I	0 21 55.90	− 0.15	− 0.43	.	90 52.7	....	....
23	5 2 19.8	Sk.	I	1 14 36.35	− 0.22	− 0.50	S.	84 6 0.4	+ 2.0	+ 4.2
24	5 51 16.8	E.	I	[illegible] 7 37.96	− 0.19	− 0.54	S.	77 44 22.0	+ 1.8	+ 3.9
28	9 25 33.5	E.	I	5 58 16.06	+ 0.22	− 0.64	N.	62 46 5.3	+ 0.1	+ 0.8
29	10 21 45.7	F.	I	6 58 34.05	+ 0.19	− 0.62	.	62 46.2	....	....
31	12 7 23.4	Sk.	I	8 52 22.21	+ 0.01	− 0.44	N.	67 13 58.3	− 1.1	− 1.1
Feb. 26	9 11 50.8	F.	I	7 38 51.23	+ 0.07	− 0.57	N.	63 31 57.7	− 1.3	− 0.9
27	10 3 30.8	S.	I	8 34 36.33	− 0.05	− 0.72	N.	66 2 59.0	− 3.5	− 3.4
28	10 51 45.3	Sk.	I	9 26 55.31	+ 0.21	− 0.50	N.	69 42 7.8	− 2.4	− 2.9
Mar. 1	11 36 39.1	E.	I	10 15 52.96	− 0.17	− 0.69	N.	74 12 40.3	− 2.8	− 3.8
2	12 18 47.2	F.	II	11 [illegible] 4.60	+ 0.07	− 0.37	.	79 19.0	....	....
4	13 38 8.7	Sk.	II	12 29 32.19	− 0.19	− 0.46	.	90 25.3	....	....
10	18 6 25.9	S.	II	17 22 12.78	0.00	− 0.39	S.	116 49 41.4	− 0.4	− 3.5
25	7 7 35.6	E.	I	7 20 42.63	− 0.34	− 0.64	N.	62 50 13.5	+ 0.5	+ 1.0
26	8 0 32.7	F.	I	8 17 44.91	− 0.31	− 0.65	N.	64 58 39.6	− 3.4	− 2.8
28	9 35 25.0	Sk.	I	10 0 45.93	− 0.06	− 0.47	N.	72 36 32.0	− 2.6	− 2.6
29	10 18 1.9	E.	I	10 47 26.39	− 0.11	− 0.57	N.	77 33 10.6	− 2.1	− 2.9
30	10 58 29.3	F.	I	11 31 57.02	+ 0.06	− 0.43	.	82 56.1	....	....
Apr. 10	19 45 4.6	E.	II	21 3 21.06	+ 0.89	− 0.63	N.	112 17 48.9	− 2.6	+ 2.4
11	20 39 46.8	F.	II	22 2 8.40	+ 0.90	− 0.78	.	107 18.7	....	....
22	5 54 8.9	E.	I	7 57 27.34	− 0.44	− 0.71	N.	63 57 40.1	+ 2.2	+ 1.4
26	8 57 48.8	E.	I	11 17 23.58	− 0.37	− 0.41	N.	81 4 5.0	− 3.3	− 2.7
29	10 55 37.4	Sk.	I	13 27 21.23	+ 0.02	− 0.23	N.	97 55 34.3	+ 0.4	− 1.4
May 3	13 56 52.2	Sk.	II	16 44 52.01	0.00	− 0.68	.	115 34.5	....	....
5	15 46 13.0	F.	II	18 42 23.95	+ 0.42	− 0.39	N.	117 51 0.1	+ 3.0	+ 1.0
6	16 42 44.1	S.	II	19 43 0.98	+ 0.17	− 0.63	.	116 29.6	....	....
7	17 38 22.0	Sk.	II	20 42 44.47	+ 0.06	− 0.79	.	113 40.8	....	....
8	18 32 5.6	E.	II	21 40 33.46	+ 0.16	− 0.87	N.	109 18 56.7	− 3.4	+ 1.7
10	20 13 49.9	S.	II	23 30 27.53	+ 0.66	− 0.71	.	97 17.0	....	....
19	3 41 54.7	Sk.	I	7 31 18.45	− 0.02	− 0.57	.	63 4.6	....	....
26	8 53 34.6	S.	I	13 11 25.44	− 0.76	− 0.58	.	95 56.7	....	....
27	9 23 54.5	Sk.	I	13 55 48.52	− 0.47	− 0.33	N.	101 25 0.7	+ 5.2	+ 6.1
28	10 16 29.2	E.	I	14 42 26.76	− 0.63	− 0.60	N.	106 30 57.3	− 2.6	− 2.8
29	11 2 14.0	F.	I	15 32 15.68	− 0.46	− 0.50	N.	110 59 58.6	− 2.6	− 4.4
30	11 51 43.1	S.	I	16 25 49.47	− 0.32	− 0.60	S.	114 34 59.3	+ 0.3	− 2.7
June 1	13 40 52.4	E.	II	18 23 9.79	+ 0.15	− 0.49	S.	117 50 13.2	+ 2.5	− 0.8
8	19 46 9.3	S.	II	0 57 2.56	+ 0.34	− 0.87	.	85 33.7	....	....
9	20 35 56.0	E.	II	1 50 54.02	+ 0.49	− 0.88	N.	79 6 0.3	2.2	+ 6.0
18	4 5 38.6	F.	I	9 53 23.02	− 0.48	− 0.52	N.	72 3 50.7	− 0.5	− 3.1
21	6 11 9.5	E.	I	12 11 4.21	− 0.60	− 0.41	N.	88 12 56.7	− 2.2	− 2.7
22	6 50 13.7	F.	I	12 54 11.39	− 0.59	− 0.38	N.	93 53 26.6	− 2.9	− 2.7
24	8 11 25.4	Sk.	I	14 23 29.52	− 0.59	− 0.42	N.	104 40 13.5	− 5.9	− 5.2
29	12 29 33.9	E.	II	19 [illegible] 3.20	− 0.18	− 0.66	S.	117 28 21.9	+ 4.2	+ 1.8
July 8	20 15 27.1	Sk.	II	3 24 41.95	+ 0.49	− 0.98	N.	69 26 11.8	− 0.3	+ 6.0
19	4 46 11.5	E.	I	12 36 15.89	− 0.52	− 0.32	N.	91 48 40.9	− 1.2	− 3.7
23	7 34 51.7	E.	I	15 41 10.00	− 0.39	− 0.35	N.	111 57 37.8	− 0.5	− 1.3
30	14 1 27.3	E.	II	22 36 24.97	− 0.01	− 0.69	N.	103 12 35.0	+ 0.3	+ 4.1
Aug. 4	18 11 23.1	E.	II	3 6 44.67	+ 0.65	− 0.80	N.	70 43 12.9	− 0.8	+ 5.9
15	2 42 34.3	Sk.	I	12 18 45.34	− 0.34	− 0.18	.	89 34.0	....	....
27	12 41 48.1	Sk.	II	23 6 56.23	+ 0.25	− 0.49	.	99 31.9	....	....
31	16 6 25.5	Sk.	II	2 47 53.49	+ 0.30	− 0.84	.	72 13.7	....	....
Sept. 21	8 38 33.0	E.	I	20 41 35.00	− 0.53	− 0.50	S.	113 37 40.6	+ 4.6	+ 2.0

MOON—Continued.

Date.	Mean Time of Transit of Center.			Observer.	Limb.	Apparent Right Ascension of Center.			Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.			Correction to Tables of—	
									Peirce.	Hansen.					Peirce.	Hansen.
1874.	h	m	s			h	m	s	s	s		°	′	″	″	″
Sept. 22	9	33	33.9	F.	I	21	40	41.56	− 0.32	− 0.48	S.	108	58	16.6	+ 3.9	+ 2.1
23	10	26	46.4	S.	I	22	37	59.32	− 0.11	− 0.53	S.	103	0	52.0	+ 3.9	+ 4.0
24	11	18	32.1	Sk.	I	23	33	50.08	+ 0.17	− 0.44	S.	96	7	50.2	− 0.1	+ 2.6
25	12	9	44.9	E.	II	0	29	7.83	+ 0.01	− 0.77	.	88	46.4	....	....	....
26	13	1	36.1	F.	II	1	25	4.12	+ 0.26	− 0.57	.	81	26.6	....	....	....
30	16	50	43.9	F.	II	5	30	35.83	− 0.17	− 0.80	.	62	21.6	....	....	....
Oct. 1	17	50	50.4	S.	II	6	34	48.72	− 0.05	− 0.95	.	61	47.6	....	....	....
2	18	48	30.5	Sk.	II	7	36	34.84	+ 0.10	− 0.94	S.	63	4	36.2	− 2.9	− 6.2
4	20	31	41.9	S.	II	9	27	56.28	− 0.02	− 0.81	S.	69	51	21.2	− 1.8	− 5.9
15	3	43	38.3	E.	I	17	20	29.25	− 0.40	− 0.28	.	117	28.5	....	....	....
16	4	37	4.9	F.	I	18	18	1.11	− 0.38	− 0.35	N.	118	17	14.8	+ 8.0	+ 4.1
18	6	26	46.2	Sk.	I	20	15	53.54	− 0.10	− 0.23	S.	115	13	0.8	+ 4.5	+ 2.0
19	7	20	31.4	E.	I	21	13	44.18	− 0.15	− 0.39	S.	111	29	9.8	+ 2.5	+ 0.8
20	8	12	43.1	F.	I	22	10	0.93	+ 0.01	− 0.31	S.	106	8	9.7	+ 3.3	+ 2.1
22	9	53	56.3	Sk.	I	23	59	23.87	− 0.01	− 0.43	S.	92	46	46.0	+ 3.9	+ 3.3
23	10	44	56.6	E.	I	0	54	29.11	0.00	− 0.54	S.	85	24	5.2	+ 1.5	+ 2.8
25	12	33	52.0	E.	II	2	51	35.54	− 0.16	− 0.88	N.	71	43	8.6	− 5.0	+ 0.9
26	13	33	20.0	Sk.	II	3	55	9.86	− 0.43	− 0.96	N.	66	32	21.6	+ 0.8	+ 3.5
28	15	38	31.2	F.	II	6	8	34.70	− 0.74	− 0.85	N.	65	45	1.3	− 0.5	− 0.3
Nov. 14	4	20	53.5	S.	I	19	56	7.22	+ 0.03	− 0.21	.	116	6.8	....	....	....
16	6	44	46.2	E.	.	21	49.6	....	....	....	S.	108	14	46.5	+ 0.6	+ 2.6
21	10	14	37.1	F.	I	2	18	24.77	− 0.14	− 0.56	S.	75	6	47.9	+ 3.1	+ 4.6
Dec. 4	21	16	33.5	Sk.	II	14	13	25.23	− 0.15	− 0.53	.	104	22.6	....	....	....
14	4	50	44.5	E.	I	22	24	19.79	0.00	− 0.39	S.	104	18	10.2	− 0.9	+ 3.7
15	5	38	4.8	F.	I	23	15	44.52	+ 0.08	− 0.38	S.	98	11	3.2	− 4.7	+ 1.4
18	8	2	5.3	E.	I	1	51	58.30	+ 0.04	− 0.55	S.	77	57	46.5	− 0.3	+ 5.2
19	8	55	27.0	F.	.	2	50.8	....	....	....	S.	71	49	24.5	− 1.4	+ 2.5
21	10	55	27.6	Sk.	I	4	57	38.19	+ 0.06	− 0.50	N.	63	19	53.4	− 1.2	+ 0.5
22*	11	59	53.4	E.	I, II	6	6	11.68	− 0.39	− 0.91	S.	61	54	8.7	− 3.0	− 2.4
23	13	3	30.9	F.	II	7	13	56.24	− 0.34	− 0.87	.	62	35.8	....	....	....
25	14	57	49.6	Sk.	II	9	16	26.75	− 0.26	− 0.77	S.	69	12	55.3	− 1.4	− 6.1
1875.																
Jan. 11	3	36	21.0	E.	.	23	0.1	....	....	....	S.	99	51	28.0	− 2.7	+ 1.3
14	5	57	38.0	Sk.	I	1	33	37.67	+ 0.19	− 0.40	S.	79	52	45.1	− 3.6	− 3.7
15	6	48	8.7	E.	I	2	28	13.17	+ 0.33	− 0.38	S.	73	41	1.6	− 3.6	+ 2.7
16	7	42	25.8	F.	I	3	26	35.75	+ 0.25	− 0.58	S.	68	22	36.6	− 0.3	+ 4.9
Feb. 13	6	34	33.8	F.	I	4	8	56.23	+ 0.17	− 0.60	S.	65	15	6.1	+ 0.4	+ 3.2
14	7	34	13.5	S.	I	5	12	42.30	+ 0.13	− 0.69	S.	62	31	8.2	− 0.3	+ 1.4
16	9	35	48.9	E.	I	7	22	30.78	+ 0.38	− 0.48	N.	62	44	11.5	− 2.8	− 3.4
17	10	33	4.7	F.	I	8	23	52.50	+ 0.02	− 0.73	N.	65	32	36.6	− 1.2	− 2.7
22	14	22	16.7	S.	II	12	33	24.98	− 0.08	− 0.33	.	92	41.4	....	....	....
26	17	11	24.6	S.	II	15	38	46.81	− 0.14	− 0.47	S.	112	54	33.1	− 1.5	− 3.8
27	17	59	37.7	Sk.	II	16	31	4.45	+ 0.01	− 0.31	S.	116	1	29.1	+ 1.7	+ 0.6
Mar. 11	3	32	7.2	Sk.	I	2	48	30.02	− 0.05	− 0.48	S.	71	13	2.2	− 1.6	+ 1.8
12	4	28	51.6	E.	I	3	49	20.37	+ 0.13	− 0.42	S.	66	17	27.0	+ 2.4	+ 4.8
13	5	28	34.4	F.	I	4	53	9.45	+ 0.03	− 0.59	S.	62	58	43.1	− 1.6	− 0.8
16	8	27	54.2	E.	I	8	4	48.36	− 0.44	− 0.97	N.	69	21	42.3	− 1.7	− 2.6
17	9	21	17.3	F.	I	9	2	16.84	− 0.03	− 0.54	N.	68	6	10.2	− 2.5	− 3.4
27	16	42	22.4	Sk.	II	17	3	59.88	− 0.05	− 0.45	S.	117	26	29.6	+ 3.3	+ 1.7
Apr. 14	8	8	28.5	F.	I	9	39	39.57	− 0.23	− 0.63	N.	71	19	38.1	− 0.7	− 2.3
20	12	19	5.0	Sk.	II	14	14	36.63	− 0.37	− 0.50	S.	105	21	6.2	0.0	− 2.8
21	13	2	26.4	E.	.	15	2.0	....	....	....	S.	110	3	14.8	+ 2.4	− 0.9
22	13	48	22.1	F.	II	15	52	1.50	− 0.12	− 0.34	.	113	55.1	....	....	....
24	15	28	9.6	Sk.	II	17	39	58.46	− 0.09	− 0.50	S.	118	15	57.4	+ 2.8	+ 0.2
May 7	2	3	24.0	E.	I	5	4	15.87	+ 0.04	− 0.75	.	117	53.9	....	....	....
10	5	11	21.2	Sk.	I	8	24	33.66	− 0.27	− 0.93	N.	65	31	17.1	+ 4.5	+ 0.9
12	6	52	30.0	F.	I	10	13	52.16	− 0.19	− 0.64	N.	74	56	28.0	− 5.0	− 8.9
13	7	36	26.5	Sk.	I	11	1	52.41	− 0.16	− 0.48	N.	80	37	14.2	+ 0.1	− 2.5
17	10	17	58.7	F.	I	13	59	37.41	− 0.25	− 0.37	N.	103	41	25.1	− 0.2	− 2.0

*Sidereal time of transit of semidiameter, 77.56 s.

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of—	
					Peirce.	Hansen.			Peirce.	Hansen.
1875.	h m s			h m s	s	s		° ′ ″	″	″
May 19	11 45 33.3	E.	I	15 35 19.46	− 0.36	− 0.46	S.	112 43 23.6	+ 3.6	+ 0.3
22	14 16 15.7	Sk.	II	18 18 16.34	+ 0.09	− 0.32	.	118 22.4	....	....
26	17 39 6.0	Sk.	II	21 57 26.14	− 0.22	− 0.82	N.	106 41 24.0	− 0.5	+ 2.2
27	18 25 49.2	E.	II	22 48 13.65	+ 0.04	− 0.70	.	100 56.9	....	....
28	19 11 59.5	F.	II	23 38 28.05	+ 0.31	− 0.65	N.	94 30 37.4	− 3.8	+ 2.4
30	20 47 55.3	Sk.	II	1 22 32.77	+ 0.35	− 0.92	N.	80 41 23.1	− 4.5	+ 3.2
June 11	6 56 24.1	Sk.	I	12 16 3.63	− 0.35	− 0.48	N.	90 38 47.7	− 0.1	− 2.6
13	8 16 42.9	F.	I	13 44 28.72	− 0.44	− 0.47	N.	102 4 3.3	− 1.9	− 3.1
16	10 29 47.1	S.	I	16 9 44.53	− 0.36	− 0.49	N.	114 58 40.4	+ 1.5	− 1.9
19	13 4 53.2	Sk.	II	18 57 5.76	− 0.06	− 0.39	S.	117 50 45.9	+ 3.8	+ 0.3
23	16 23 21.7	Sk.	II	22 31 53.12	− 0.07	− 0.37	N.	102 38 54.6	+ 3.9	+ 7.8
25	17 53 57.0	F.	II	0 10 36.33	+ 0.20	− 0.71	N.	89 55 36.2	− 1.8	+ 5.3
27	19 29 47.4	Sk.	II	1 54 36.65	+ 0.43	− 0.89	N.	70 36 56.9	− 1.9	+ 6.3
July 8	4 52 13.4	E.	I	11 57 59.62	− 0.37	− 0.51	N.	88 29 32.4	+ 8.9	+ 3.5
13	8 24 50.9	F.	I	15 50 54.88	− 0 45	− 0.42	N.	113 59 59.4	+ 0.4	− 1.8
14	9 13 52.3	E.	I	16 44 0.84	− 0.31	− 0.41	N.	116 43 52.4	+ 1.1	− 1.9
16	10 58 41.3	F.	I	18 37 0.20	− 0.17	− 0.49	S.	118 11 40.0	+ 3.4	+ 0.5
21	15 7 27.6	Sk.	II	23 6 10.12	+ 0.02	− 0 63	.	98 13.1	....	....
23	16 38 8.4	F.	II	0 44 58.93	+ 0.46	− 0.66	N.	85 1 59.1	− 3.2	+ 6.1
25	18 16 16.1	Sk.	II	2 31 15.89	+ 0.49	− 0.95	N.	72 24 54.7	− 0.4	+ 8.1
Aug. 5	3 27 21.0	E.	I	12 23 16.85	− 0.51	− 0.60	N.	92 9 36.6	+ 3.5	− 1.9
9	6 18 32.7	P.	I	15 30 42.93	− 0.30	− 0.13	N.	112 50 38.9	− 4.2	+ 0.5
10	7 6 28.0	Sk.	I	16 22 42.90	− 0.43	− 0.28	.	115 59.7	....	....
20	15 23 18.7	P.	II	1 20 20.60	+ 0.52	− 0.79	.	79 59.0	....	....
21	16 13 7.2	P.	II	2 14 13.76	+ 0.79	− 0.85	N.	73 57 19.2	− 4.3	+ 6.4
25	20 8 32.5	P.	II	6 26 4.00	+ 0.30	− 1.13	S.	61 29 58.0	+ 0.3	− 0.6
Sept. 4	3 27 9.7	P.	I	14 21 22.19	− 0.36	− 0.38	N.	106 51 58.4	− 1.2	− 4.8
7	5 48 5.2	F.	I	16 54 30.56	− 0.31	− 0.12	N.	117 27 27.4	+ 0.9	− 0.6
8	6 39 41.7	P.	I	17 50 12.08	− 0.31	− 0.04	N.	118 35 29.1	+ 0.5	− 1.0
11	9 17 6.6	F.	I	20 39 52.47	− 0.39	− 0.24	S.	113 12 1.5	+ 4.4	+ 1.7
14	11 42 41.3	P.	I	23 17 40.79	− 0.14	− 0.29	S.	96 34 55.8	+ 1.5	+ 1.4
24	20 56 54.8	F.	II	9 12 50.90	+ 0.05	− 0.77	S.	67 23 39.7	− 1.3	− 5.4
Oct. 5	4 30 49.2	Sk.	I	17 17 25.32	− 0.45	− 0.26	N.	118 20 46.6	+ 6.4	+ 4.8
7	6 14 52.0	F.	I	19 19 38.36	− 0.60	− 0.43	S.	117 27 31.8	+ 2.8	+ 0.9
8	7 6 11.9	Sk.	I	20 15 3.22	− 0.32	− 0.14	.	114 51.6	....	....
12	10 18 24.8	F.	I	23 43 33.88	− 0.16	− 0.32	S.	93 7 19.3	+ 4.9	+ 2.5
13	11 6 12.8	Sk.	I	0 35 26.35	0.00	− 0.49	S.	86 3 7.3	+ 4.6	+ 5.3
16	13 47 26.9	P.	II	3 28 56.62	+ 0.10	− 0.98	N.	67 4 51.7	− 2.0	+ 5.0
17	14 49 20.1	Sk.	II	4 34 56.55	+ 0.14	− 1.00	N.	63 15 29.1	+ 2.0	+ 5.6
19	16 57 32.2	F.	II	6 51 22.77	− 0.02	− 1.19	S.	61 47 47.3	− 1.2	− 2.8
20	17 58 6.7	P.	II	7 56 3.75	− 0.23	− 1.42	S.	64 8 45.6	− 1.2	− 5.1
21	18 53 47.0	Sk.	II	8 55 49.75	− 0.10	− 1.24	.	68 0.3	....	....
24	21 14 8.0	Sk.	II	11 28 23.49	− 0.21	− 0.82	.	84 51.0	....	....
Nov. 2	3 15 39.5	P.	I	18 2 26.83	− 0.39	− 0.02	.	118 36.3	....	....
5	5 47 26.9	P.	I	20 46 28.83	− 0.33	− 0.42	S.	112 37 54.2	+ 0.7	− 0.3
6	6 34 59.5	Sk.	I	21 38 5.85	− 0.08	− 0.22	S.	108 9 5.6	+ 3.7	+ 2.8
8	8 6 43.4	F.	I	23 17 57.92	− 0.21	− 0.33	S.	96 27 32.2	+ 3.9	+ 1.6
11	10 32 30.4	E.	I	1 55 58.47	− 0.09	− 0.55	S.	75 52 9.3	+ 2.6	+ 3.4
12	11 28 45.9	P.	I	2 56 19.85	+ 0.36	− 0.50	N.	69 45 27.4	− 1.0	+ 2.6
14	13 36 1.8	Sk.	II	5 11 49.69	+ 0.44	− 0.89	N.	62 6 34.1	0.0	+ 2.9
17	16 47 12.5	P.	II	8 35 21.54	− 0.35	− 1.03	.	66 30.0	....	....
21	19 55 30.6	P.	II	11 59 56.76	− 0.22	− 1.00	S.	89 15 37.3	− 3.6	− 7.5
Dec. 1	2 53 29.0	E.	I	19 34 32.84	− 0.76	− 0.53	.	116 37.0	....	....
2	3 42 50.5	F.	I	20 27 59.01	− 0.36	− 0.25	.	66 10.6	....	....
10	10 7 14.8	Sk.	I	3 24 58.92	− 0.51	− 0.69	S.	67 22 35.6	+ 0.2	+ 1.8
12*	12 18 48.9	P.	I, II	5 44 48.17	+ 0.36	− 0.55	N.	61 37 45.7	− 2.2	− 0.2
13	13 26 58.5	E.	II	6 57 5.15	+ 0.31	− 0.85	N.	62 12 0.1	− 0.2	− 0.9
18	17 53 23.8	F.	II	11 43 57.02	− 0.09	− 0.60	S.	87 22 39.3	+ 0.6	− 3.5
19	18 35 11.5	Sk.	II	12 29 48.09	− 0.19	− 0.70	S.	93 34 42.1	− 5.5	− 8.9

* Sidereal time of transit of semidiameter, 79.70 s.

MOON—Continued.

Date.	Mean Time of Transit of Center.			Observer.	Limb.	Apparent Right Ascension of Center.			Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.			Correction to Tables of—	
									Peirce.	Hansen.					Peirce.	Hansen.
1875.	h	m	s			h	m	s	s	s		°	′	″	″	″
Dec. 20	19	16	24.0	P.	.	13	16.9	.....	....	....	S.	99	29	9.2	−4.1	−7.4
22	20	41	45.0	F.	II	14	48	32.10	−0.25	−0.75	.	109	41.8	....	....	....
1876.																
Jan. 12	14	7	51.6	S.	II	9	36	21.75	−0.34	−0.98	S.	72	13	37.6	−1.5	−7.5
14	15	45	56.5	E.	II	11	22	35.85	−0.14	−0.62	S.	84	49	10.0	+5.9	−1.9
20	20	11	7.1	S.	II	16	12	9.31	−0.41	−0.84	S.	115	48	8.4	−1.5	−4.5
30	3	23	10.2	E.	I	0	0	52.40	−0.09	−0.29	S.	89	52	55.0	−4.8	+1.6
31	4	7	12.4	F.	I	0	48	58.41	+0.01	−0.28	S.	83	24	27.4	−4.2	+2.8
Feb. 2	5	43	23.7	P.	I	2	33	18.64	+0.37	−0.28	S.	71	19	14.5	+1.0	+7.6
4	7	38	2.6	F.	I	4	36	9.50	+0.20	−0.57	S.	63	0	53.0	−4.8	−1.5
5	8	42	7.5	S.	I	5	44	21.49	+0.23	−0.50	N.	61	27	19.5	+0.4	+2.0
10	13	33.96	....	P.	.	10	56.7	....	....	....	S.	81	35	4.6	+1.2	−6.5
16	18	4	19.4	F.	II	15	51	27.82	−0.34	−0.63	S.	114	51	55.3	−2.4	−4.4
18	19	44	49.6	P.	II	17	40	7.63	−0.39	−0.65	.	118	33.4	....	....	....
19	20	36	41.2	E.	II	18	36	4.39	−0.26	−0.55	.	118	23.2	....	....	....
Mar. 3	6	32	48.7	F.	I	5	21	8.40	+0.21	−0.45	N.	61	37	3.4	+4.0	+3.8
4	7	36	14.7	S.	I	6	28	41.42	−0.01	−0.52	N.	61	28	45.5	+0.1	−1.0
5	8	38	43.9	P.	I	7	35	17.44	−0.17	−0.64	N.	63	24	32.8	+0.2	−1.2
6	9	37	52.1	E.	I	8	38	31.91	−0.18	−0.64	N.	67	10	24.8	+0.1	−1.7
9*	12	10	1.1	P.	I, II	11	22	55.44	−0.07	−0.55	N.	85	3	21.8	−0.4	−6.9
13	15	8	38.3	P.	II	14	37	48.32	−0.24	−0.73	S.	109	16	50.0	+2.3	−3.3
20	20	57	57.3	P.	II	20	55	40.55	−0.59	−0.73	.	111	29.6	....	....	....
29	3	25	13.7	P.	I	3	55	33.04	+0.26	−0.44	S.	64	49	8.2	−2.2	+0.5
31	5	29.96	....	F.	.	6	8.5	....	....	....	N.	61	17	45.1	+3.5	+1.5
Apr. 1	6	32	33.1	S.	I	7	15	12.79	−0.17	−0.52	N.	62	36	26.3	+1.3	−1.8
2	7	31.88	....	P.	.	8	18.6	....	....	....	N.	65	47	8.2	−0.5	−2.5
4	9	17.19	....	F.	.	10	12.1	....	....	....	N.	76	8	1.1	+7.6	+5.9
5	10	4	8.8	S.	I	11	3	9.51	−0.08	−0.15	N.	82	26	7.2	−2.4	−5.4
6	10	48	49.2	P.	I	11	51	53.79	+0.10	−0.36	N.	88	59	21.5	−0.4	−5.0
8	12	16	11.8	F.	II	13	27	23.83	−0.13	−0.52	S.	101	36	22.2	+0.6	−4.8
9	13	1	1.5	S.	II	14	16	17.45	−0.22	−0.52	S.	107	7	31.9	−2.6	−7.3
10	13	47	37.9	P.	II	15	6	58.14	−0.32	−0.60	S.	111	47	33.1	+0.3	−3.8
12	15	26	51.8	F.	II	16	54	21.38	−0.45	−0.85	S.	117	42	52.9	−0.5	−2.6
14	17	10	9.6	P.	II	18	45	49.32	−0.36	−0.74	N.	118	10	26.4	−1.5	−1.3
18	20	21	16.9	P.	II	22	13	14.23	−0.51	−0.72	N.	103	41	18.2	+2.5	+3.0
19	21	5	27.5	F.	II	23	1	28.58	−0.27	−0.62	.	97	44.3	....	....	....
29	5	26	40.5	S.	I	7	59	32.97	−0.17	−0.65	N.	65	45	20.2	+0.9	−2.6
30	6	30	19.1	P.	I	9	0	17.42	−0.36	−0.68	N.	69	2	15.9	−0.5	−4.1
May 3	8	46	50.4	S.	I	11	36	1.97	−0.15	−0.39	N.	86	54	58.9	−1.9	−4.5
4	9	29	55.4	P.	I	12	23	10.53	−0.12	−0.46	N.	93	19	30.1	−0.2	−3.7
19	21	11	3.4	P.	II	1	5	22.11	+0.04	−0.61	.	81	1.9	....	....	....
29	6	0	5.8	E.	I	10	31	20.45	−0.21	−0.58	N.	78	46	7.9	−1.1	−1.1
31	7	29	20.3	S.	I	12	8	42.70	−0.21	−0.55	N.	91	34	5.5	−1.9	−6.3
June 1	8	11	58.9	P.	I	12	55	24.86	−0.21	−0.53	N.	97	46	27.4	−0.4	−4.7
5	11	15.03	....	P.	.	16	14.7	....	....	....	S.	116	3	8.5	−0.8	−5.8
29	6	53	40.0	P.	I	13	27	16.74	−0.22	−0.40	N.	101	59	43.9	−1.2	−5.4
30	7	37	49.6	E.	I	14	15	30.19	−0.38	−0.49	N.	107	19	42.4	+0.3	−3.6
July 2	9	11	47.2	S.	I	15	57	36.28	−0.51	−0.62	N.	115	17	33.3	+1.7	−2.7
5†	11	44	51.4	P.	I, II	18	42	55.47	−0.06	−0.38	S.	117	54	26.5	+5.1	+1.5
7	13	23	19.7	P.	II	20	29	32.92	−0.25	−0.57	N.	112	52	57.9	+2.5	+1.5
26	4	49	21.7	S.	I	13	9	5.13	−0.34	−0.44	N.	100	1	40.7	+2.6	−1.9
27	5	34	7.1	P.	I	13	57	54.41	−0.46	−0.50	N.	105	43	47.1	+2.3	−1.2
Aug. 6	13	33	57.0	F.	II	22	38	28.71	−0.19	−0.50	N.	99	49	27.8	−0.1	+2.4
26	5	51	4.2	F.	I	16	13	10.95	−0.56	−0.43	N.	116	22	57.7	+0.4	−0.3
28	7	34	5.7	E.	I	18	4	22.56	−0.98	−0.68	N.	118	37	12.6	−1.5	−2.6
Sept. 2	11	31	40.1	F.	I	22	22	18.74	−0.25	−0.35	S.	101	48	42.3	+2.1	+2.4
25	6	17	27.1	P.	I	18	37	54.88	−0.61	−0.26	.	118	10.9	....	....	....
28	8	42	19.3	S.	I	21	15	0.48	−0.59	−0.25	S.	109	6	0.3	+3.1	+0.4
29	9	26	25.5	P.	I	22	3	10.47	−0.45	−0.20	S.	104	3	42.8	−3.2	−6.3

*Sidereal time of transit of semidiameter, $65^{s}.62$.

†Sidereal time of transit of semidiameter, $69^{s}.15$.

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of—	
					Peirce.	Hansen.			Peirce.	Hansen.
1876.	h m s			h m s	s	s		° ′ ″	″	″
Oct. 2*	11 34 50.8	S.	I, II	0 23 46.43	− 0.30	− 0.46	S.	85 43 46.7	+ 1.3	+ 2.3
3†	12 19 53.9	P.	I, II	1 12 53.64	− 0.28	− 0.63	N.	79 21 13.8	+ 0.5	+ 3.7
9	18 [illegible] 58.6	P.	II	7 20 33.99	+ 0.14	− 1.21	S.	63 11 18.1	− 0.8	− 5.0
10	19 2 5.5	S.	II	8 23 47.17	− 0.16	− 1.28	S.	66 42 54.4	+ 1.2	− 5.3
11	19 57 5.5	F.	II	9 22 52.71	− 0.01	− 0.99	.	71 42.1	....	....
13	21 36 6.7	S.	II	11 10 3.35	0.00	− 0.87	.	84 18.3	....	....
24	5 48 30.5	E.	I	20 3 13.53	− 0.97	− 0.64	S.	114 33 11.6	+ 3.1	+ 3.1
27	8 2 15.8	P.	I	22 29 10.46	− 0.58	− 0.30	S.	100 51 22.1	+ 5.6	+ 1.9
31	10 58 32.4	S.	I	1 41 42.26	+ 0.09	− 0.26	S.	75 56 14.7	+ 2.1	+ 2.2
Nov. 1‡	11 50 5.8	E.	I, II	2 37 20.51	− 0.02	− 0.60	N.	70 15 37.9	+ 0.3	+ 2.7
5	15 56 15.0	E.	II	6 59 56.55	+ 0.02	− 1.08	S.	62 37 8.5	− 2.3	− 4.5
7	17 53 35.8	S.	II	9 5 29.73	+ 0.05	− 0.97	S.	70 15 52.3	− 3.2	− 8.4
8	18 45 18.6	P.	II	10 1 17.65	+ 0.02	− 0.95	S.	75 57 21.3	+ 1.7	− 3.9
9	19 33 19.5	E.	II	10 53 22.92	− 0.07	− 0.98	S.	82 17 31.0	+ 0.2	− 5.4
22	5 13 19.2	F.	I	21 22 16.57	− 0.30	− 0.06	S.	108 0 32.0	+ 1.1	+ 0.8
24	6 37 21.6	S.	I	22 54 25.91	− 0.39	− 0.23	S.	97 24 48.5	+ 3.9	+ 2.4
27	8 46 10.9	S.	I	1 15 26.06	− 0.43	− 0.35	S.	78 53 13.8	+ 6.0	+ 3.2
28	9 35 15.1	P.	I	2 8 34.88	− 0.25	− 0.39	S.	72 56 51.1	+ 3.2	+ 2.2
29	10 29 37.1	E.	I	3 7 2.39	− 0.13	− 0.55	.	67 34.8	....	....
Dec. [illegible]	13 41 27.7	P.	II	6 31 14.15	+ 0.60	− 0.73	N.	62 4 0.7	− 1.4	− 2.9
3	14 46 16.3	E.	II	7 40 9.95	+ 0.32	− 0.82	S.	64 28 41.6	− 0.3	− 3.7
5	16 41 9.7	S.	II	9 43 15.34	− 0.25	− 0.93	S.	74 15 28.2	− 5.9	− 9.8
19	3 9 12.8	E.	I	21 4 16.91	− 0.52	− 0.18	.	109 26.5	....	....
21	4 33 18.7	S.	I	22 36 29.70	− 0.28	− 0.01	S.	99 22 48.9	+ 0.8	+ 0.9
26	8 12 31.2	P.	I	2 36 1.00	− 0.38	− 0.34	.	70 8.0	....	....
27	9 8 37.7	E.	I	3 36 13.33	− 0.50	− 0.54	S.	65 38 12.8	+ 1.9	+ 2.6
31	13 29 31.7	E.	II	8 13 36.40	+ 0.28	− 0.91	S.	66 35 58.8	− 0.3	− 5.8
1877.										
Jan. 24	7 50 57.9	E.	I	4 8 44.36	+ 0.09	− 0.41	.	63 44.8	....	....
25	8 53 37.6	F.	I	5 15 30.97	− 0.15	− 0.58	N.	61 47 29.2	− 0.3	0.0
26	9 59 40.3	S.	I	6 25 41.10	− 0.16	− 0.38	N.	61 56 38.8	− 2.6	− 2.3
27	11 5 38.9	P.	I	7 35 47.23	− 0.71	− 0.86	N.	64 21 37.9	− 2.3	− 2.9
28‖	12 8 24.9	E.	I, II	8 42 39.92	− 0.57	− 0.85	N.	68 48 29.4	− 0.2	− 3.2
30	13 59 46.9	S.	II	10 42 13.30	− 0.10	− 0.68	S.	81 35 29.4	+ 1.3	− 7.3
Feb. 7	20 35 31.1	S.	II	17 50 35.00	− 0.01	− 0.66	.	118 27.2	....	....
17	3 14 22.1	E.	I	1 6 0.55	− 0.13	− 0.14	S.	79 23 28.7	− 1.7	− 1.3
20	5 40 54.3	P.	I	3 44 46.44	+ 0.27	− 0.19	S.	64 50 47.9	+ 0.9	+ 2.4
21	6 39 17.7	E.	I	4 47 16.00	+ 0.37	− 0.41	S.	62 16 18.1	− 2.0	− 1.7
25	10 47 20.7	E.	I	9 11 45.97	− 0.48	− 0.60	N.	71 22 19.8	− 3.4	− 5.7
27	12 34 32.0	S.	II	11 7 8.03	− 0.46	− 0.64	S.	84 51 44.0	+ 0.5	− 5.1
Mar. 20	4 33 6.1	F.	I	4 27 10.66	+ 0.10	− 0.33	S.	62 56 9.7	0.0	− 0.8
23	7 35 50.4	S.	I	7 42 14.63	+ 0.07	− 0.36	N.	64 41 24.4	+ 4.6	+ 0.3
29	12 48 33.9	E.	II	13 19 28.83	− 0.12	− 0.52	S.	102 12 1.4	+ 0.5	− 5.0
30	13 38 43.8	F.	II	14 13 43.46	− 0.16	− 0.62	S.	108 5 3.7	+ 8.9	+ 3.9
Apr. 20	6 28 14.1	S.	I	8 24 50.73	− 0.38	− 0.44	N.	67 35 11.5	+ 2.3	− 1.3
21	7 22 54.6	P.	I	9 23 36.74	− 0.54	− 0.54	N.	72 43 13.9	− 1.0	− 3.5
22	8 14.20	E.	.	10 16.8	....	....	N.	78 51 51.0	+ 1.5	− 1.0
23	9 2 59.9	F.	I	11 11 51.59	− 0.38	− 0.71	N.	85 35 52.3	− 0.7	− 4.4
25	10 38 18.8	P.	I	12 55 19.28	+ 0.12	− 0.47	N.	99 15 42.1	+ 2.7	− 2.9
May 2	16 45 54.8	S.	II	19 31 31.52	− 0.39	− 0.49	N.	115 35 38.8	+ 1.9	+ 2.6
3	17 33 59.6	P.	II	20 23 40.79	− 0.53	− 0.58	N.	112 23 6.9	+ 2.3	+ 2.2
6	19 42 20.8	S.	II	22 44 12.78	− 0.47	− 0.49	N.	97 53 11.7	+ 6.3	+ 4.4
9	21 46 28.1	S.	II	1 0 30.12	− 0.37	− 0.70	.	80 2.2	....	....
18	5 19 23.3	S.	I	9 6 12.15	− 0.40	− 0.61	N.	71 17 28.3	+ 3.0	− 0.5
23	9 20 53.7	P.	I	13 28 5.02	0.00	− 0.55	N.	103 17 54.1	+ 1.7	− 4.4
24	10 9 58.6	E.	I	14 21 14.52	− 0.08	− 0.66	N.	108 47 24.7	+ 1.9	− 3.9
28	13 44 35.9	E.	II	18 12 13.35	− 0.36	− 0.35	S.	117 53 41.9	+ 3.3	+ 2.2
31	16 13 8.7	P.	II	20 53 0.25	− 0.52	− 0.57	N.	109 46 11.4	+ 2.8	+ 3.6
June 19	7 18 35.8	S.	I	13 11 55.17	− 0.13	− 0.49	N.	101 38 34.3	+ 2.3	− 2.3

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* Sidereal time of transit of semidiameter, 64.29.

† Sidereal time of transit of semidiameter, 65.71.

‡ Sidereal time of transit of semidiameter, 70.97.

‖ Sidereal time of transit of semidiameter, 75.22.

MOON—Continued.

Date.	Mean Time of Transit of Center.			Observer.	Limb.	Apparent Right Ascension of Center.			Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.			Correction to Tables of—	
									Peirce.	Hansen.					Peirce.	Hansen.
1877.	h	m	s			h	m	s	s	s		°	′	″	″	″
June 20	8	6	27.8	P.	I	14	3	50.49	− 0.15	− 0.57	N.	107	17	48.2	+ 0.6	− 4.7
22	9	48	33.3	F.	I	15	54	5.92	− 0.29	− 0.75	N.	115	28	51.7	+ 2.4	− 2.6
23	10	42	28.4	S.	I	16	52	6.47	− 0.19	− 0.58	S.	117	32	10.3	+ 1.0	− 2.9
25*	12	30	2.9	P.	I, II	18	47	51.72	− 0.26	− 0.41	S.	117	2	43.7	+ 2.4	+ 1.0
29	15	34	19.2	F.	II	22	8	24.50	− 0.33	− 0.49	N.	101	45	14.9	− 0.2	+ 1.8
July 1	16	53	44.7	S.	II	23	35	56.21	− 0.30	− 0.41	N.	90	33	12.9	+ 5.7	+ 6.9
15	4	28	28.4	E.	I	12	3	49.30	− 0.59	− 0.59	N.	93	15	0.7	+ 0.2	− 3.4
26	13	32	31.0	P.	II	21	52	43.36	− 0.52	− 0.62	N.	103	27	43.9	+ 1.6	+ 3.5
29	15	31	35.1	S.	II	0	3	56.76	− 0.40	− 0.56	N.	86	39	12.4	+ 2.1	+ 5.2
30	16	11	56.9	P.	II	0	48	21.74	− 0.32	− 0.51	N.	80	54	35.0	+ 1.9	+ 4.7
Aug. 3	19	28	8.3	P.	II	4	20	51.62	− 0.12	− 0.57	N.	63	11	29.0	+ 3.9	+ 3.9
17	7	27	33.8	S.	I	17	13	30.50	− 0.28	− 0.53	N.	118	4	21.9	+ 1.0	0.0
18	8	21	9.1	F.	I	18	11	11.15	− 0.51	− 0.59	S.	117	58	38.6	+ 1.4	+ 0.2
21	10	48	7.8	E.	I	20	50	23.71	− 0.48	− 0.42	S.	109	46	38.9	+ 3.2	+ 2.9
Sept. 18	9	29	37.6	F.	I	21	22	4.03	− 0.53	− 0.36	S.	106	44	58.4	+ 1.2	+ 0.3
Oct. 12	4	59.75	....	F.	.	18	26.1	....	....	....	S.	117	31	17.8	− 1.5	+ 0.8
13	5	51	57.3	S.	I	19	22	21.85	− 0.45	− 0.36	S.	115	34	35.2	+ 1.2	+ 2.5
14	6	40	39.9	P.	I	20	15	8.99	− 0.39	− 0.22	S.	112	25	21.2	− 0.4	+ 0.1
15	7	25	58.3	E.	I	21	4	31.37	− 0.57	− 0.36	S.	108	19	17.1	+ 2.4	+ 1.8
16	8	8	29.2	F.	I	21	51	5.85	− 0.56	− 0.36	S.	103	30	17.6	+ 3.1	+ 1.5
18	9	28.78	....	P.	.	23	19.5	....	....	....	S.	92	30	47.6	+ 2.4	+ 0.9
22	12	19	35.7	F.	II	2	26	32.89	− 0.45	− 0.57	N.	70	25	49.1	− 5.1	− 3.2
23	13	10	11.4	E.	II	3	21	13.83	− 0.40	− 0.59	N.	66	19	43.1	+ 0.5	+ 1.8
24	14	4	51.9	P.	II	4	19	59.56	− 0.28	− 0.63	N.	63	27	8.4	+ 1.3	+ 2.4
Nov. 11	5	19	49.3	P.	I	20	44	28.69	− 0.53	− 0.27	S.	109	50	59.9	+ 1.5	+ 1.7
12	6	3	36.6	E.	I	21	32	19.70	− 0.62	− 0.34	S.	105	16	47.4	+ 3.7	+ 2.8
13	6	44	52.9	F.	I	22	17	39.36	− 0.54	− 0.26	S.	100	8	53.1	+ 5.2	+ 2.9
16	8	44	30.0	E.	I	0	29	25.75	− 0.58	− 0.40	S.	83	9	28.7	+ 4.6	+ 1.5
17	9	26	51.2	F.	I	1	15	50.46	− 0.46	− 0.38	S.	77	32	48.0	+ 5.3	+ 3.4
19	11	2	2.1	P.	I	2	59	10.16	− 0.31	− 0.45	N.	67	50	28.9	+ 1.9	+ 1.4
20†	11	56	14.1	E.	I, II	3	57	27.65	− 0.38	− 0.56	S.	64	26	45.0	+ 0.3	− 0.3
27	18	27	50.8	P.	II	10	57	44.50	+ 0.33	− 0.79	S.	85	1	19.5	+ 2.7	− 5.7
Dec. 8	3	11	48.5	F.	I	20	22	33.91	− 0.19	− 0.06	S.	111	21	45.0	+ 0.8	+ 1.1
9	3	57	19.9	P.	I	21	12	9.34	− 0.39	− 0.22	S.	107	2	28.3	+ 1.1	+ 0.7
10	4	39	43.6	E.	I	21	58	36.60	− 0.46	− 0.25	S.	102	5	15.3	+ 3.4	+ 2.2
14	7	19	28.2	E.	I	0	54	33.61	− 0.60	− 0.29	S.	79	48	15.6	+ 5.4	+ 1.3
15	8	2.98	....	F.	.	1	42.1	.....	....	....	S.	74	28	16.4	+ 3.9	− 0.9
18	10	39	27.6	E.	I	4	30	52.13	− 0.45	− 0.61	N.	63	10	55.5	+ 2.5	+ 1.6
19	11	40	16.4	F.	I	5	35	47.53	− 0.37	− 0.69	N.	62	16	46.3	0.0	− 1.1
1878.																
Feb. 4	1	53	22.6	E.	I	22	52	35.26	− 0.76	− 0.45	.	95	11.7	....	....	....
6	3	11	27.2	S.	I	0	18	46.05	− 0.44	− 0.19	S.	83	59	35.1	+ 0.5	− 1.3
7	3	51	41.2	P.	I	1	3	3.16	− 0.25	− 0.10	S.	78	29	8.6	+ 2.4	+ 0.8
18	13	45	21.1	S.	II	11	41	42.74	− 0.15	− 0.68	S.	91	14	19.9	− 1.9	− 10.7
26	20	55	47.6	P.	II	19	24	52.39	− 0.21	− 0.94	.	114	57.1	....	....	....
27	21	44	26.9	E.	II	20	17	36.24	+ 0.01	− 0.64	.	111	37.1	....	....	....
Mar. 9	4	4	21.5	F.	I	3	14	2.22	− 0.26	− 0.30	S.	66	34	19.8	+ 1.1	− 0.5
13	7	48	5.8	F.	I	7	14	9.49	+ 0.58	− 0.40	N.	64	35	55.3	− 2.4	− 1.6
17	11	28.66	....	F.	.	11	11.6	....	....	....	N.	87	11	52.8	+ 3.5	+ 0.4
18	12	20	44.2	S.	II	12	7	15.44	− 0.66	− 0.81	S.	93	33	30.3	− 2.0	− 6.6
23	17	0	26.6	P.	II	17	7	26.60	+ 0.04	− 0.93	S.	117	32	58.8	− 7.3	− 8.8
Apr. 5	2	1	50.6	E.	I	2	57	40.51	− 0.38	− 0.48	.	67	48.4	....	....	....
13	9	14	36.2	E.	I	10	43	7.27	− 0.01	− 0.44	N.	83	42	21.4	+ 0.2	− 4.5
May 8	5	25	27.0	F.	I	8	31	54.24	− 0.26	− 0.42	N.	70	0	34.5	+ 2.1	− 2.8
9	6	17	26.4	S.	I	9	27	58.79	− 0.33	− 0.49	N.	75	13	46.1	+ 1.2	− 3.2
21	17	2	12.1	S.	II	21	1	49.12	− 0.24	− 0.40	N.	107	14	55.9	+ 3.0	+ 4.6
22	17	45	45.7	P.	II	21	49	26.39	− 0.40	− 0.52	N.	102	19	43.6	+ 3.5	+ 3.9
June 4	3	21	38.5	E.	I	8	14	12.50	− 0.34	− 0.49	N.	68	51	30.2	+ 1.8	− 2.1
7	5	53	31.5	P.	I	10	58	20.13	+ 0.02	− 0.38	N.	86	7	54.2	+ 1.3	− 3.9

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* Sidereal time of transit of semidiameter, 69.40 s.
† Sidereal time of transit of semidiameter, 72.28.

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of—	
					Peirce.	Hansen.			Peirce.	Hansen.
1878.	h m s			h m s	s	s		° ′ ″	″	″
June 10	8 21 36.5	S.	I	13 38 39.13	− 0.14	− 0.54	N.	105 30 37.0	− 3.5	− 8.2
13	11 12 24.9	F.	I	16 41 45.29	− 0.40	− 0.80	S.	116 47 0.9	− 0.1	− 2.3
14	12 12 15.3	P.	I	17 45 41.98	− 0.52	− 0.80	S.	117 11 31.2	+ 0.5	+ 0.2
15	13 10 5.1	S.	II	18 47 37.88	− 0.48	− 0.66	S.	115 50 57.4	+ 1.5	+ 2.7
19	16 21 51.0	P.	II	22 15 41.57	− 0.15	− 0.32	N.	99 3 1.2	+ 0.4	+ 2.6
23	19 2 0.2	P.	II	1 12 3.26	− 0.44	− 0.57	N.	77 12 8.7	+ 6.5	+ 5.8
24	19 45 30.2	E.	II	1 59 37.04	− 0.55	− 0.66	N.	72 22 4.0	− 1.7	− 2.7
25	20 32 30.7	F.	II	2 50 41.80	− 0.35	− 0.47	.	68 12.7	....	....
July 11	10 1 26.4	F.	I	17 20 58.71	− 0.34	− 0.72	S.	117 17 42.7	+ 2.9	+ 0.8
15	13 32 56.9	F.	I	21 8 50.18	− 0.02	− 0.33	N.	106 16 57.1	+ 0.7	+ 3.8
22	18 23 59.2	F.	II	2 28 16.27	− 0.33	− 0.50	N.	69 47 7.5	+ 3.1	+ 2.4
Aug. 8	8 52 51.9	F.	I	18 2 36.55	− 0.48	− 0.66	S.	117 2 55.9	+ 1.4	+ 0.7
Sept. 14	14 15 37.6	S.	II	1 52 7.85	− 0.60	− 0.54	N.	73 3 36.4	+ 2.7	+ 3.9
15	15 0 28.5	P.	II	2 41 2.64	− 0.50	− 0.58	N.	68 55 42.0	+ 2.0	+ 3.1
18	17 33 35.8	S.	II	5 26 24.71	+ 0.01	− 0.52	.	62 49.1	....	....
19	18 29 14.9	P.	II	6 26 9.56	− 0.16	− 0.66	S.	63 36 23.7	− 3.7	− 5.9
Oct. 2	5 38 13.4	Pr.	I	18 24 16.57	− 0.51	− 0.93	N.	116 21 29.4	+ 4.9	+ 5.6
3	6 32 46.2	P.	I	19 22 54.86	+ 0.07	− 0.50	S.	114 4 57.1	− 0.7	+ 0.7
6	8 52 32.0	Pr.	I	21 54 53.36	− 0.43	− 0.47	S.	101 15 14.3	+ 1.0	+ 0.5
8	10 13 1.8	S.	I	23 23 29.46	− 0.42	− 0.24	S.	90 23 34.6	+ 2.9	+ 2.0
14	14 35 31.9	Pr.	II	4 10 22.01	− 0.29	− 0.38	N.	64 18 9.5	− 0.5	− 0.4
16	16 22 14.7	S.	II	6 5 15.41	− 0.17	− 0.67	S.	63 22 58.9	− 1.5	− 2.3
19	19 2 41.8	S.	II	8 57 58.51	+ 0.01	− 0.73	.	72 57.8	....	....
20	19 53 42.8	S.	II	9 53 4.54	− 0.15	− 0.80	.	78 40.6	....	....
21	20 44.09....	Pr.	.	10 47.5	....	....	S.	85 9 54.2	− 2.9	− 8.4
Nov. 1	6 5 35.6	S.	I	20 49 59.96	− 0.42	− 0.47	S.	107 36 50.6	+ 3.5	+ 3.0
3	7 32 1.6	Pr.	I	22 24 33.25	− 0.44	− 0.40	S.	97 32 35.4	+ 4.1	+ 2.1
4	8 12 2.3	S.	I	23 8 37.01	− 0.37	− 0.27	S.	92 5 32.8	+ 2.2	+ 0.2
5	8 51 25.3	F.	I	23 52 3.06	− 0.43	− 0.34	S.	86 36 33.2	+ 3.0	+ 1.5
7	10 12 29.8	Pr.	I	1 21 14.05	− 0.48	− 0.50	S.	76 12 47.2	+ 1.3	+ 2.0
8	10 56 1.8	S.	I	2 8 49.74	− 0.37	− 0.44	N.	71 40 37.7	+ 0.1	+ 1.0
9	11 42 27.5	F.	II	2 59 19.59	− 0.61	− 0.68	N.	67 52 53.1	+ 1.5	+ 2.2
12	14 18 17.4	F.	II	5 47 24.81	− 0.38	− 0.52	N.	63 21 4.3	+ 0.3	− 2.1
14	16 6 1.0	Pr.	II	7 43 19.18	− 0.09	− 0.02	S.	67 29 49.6	− 4.4	− 9.8
29	4 44 10.9	S.	I	21 18 45.38	− 0.35	− 0.29	S.	104 34 58.5	+ 2.9	+ 1.9
30	5 27 50.8	P.	I	22 6 29.10	− 0.46	− 0.29	S.	92 23 7.9	+ 2.8	+ 0.5
Dec. 6	9 37 5.4	F.	I	2 40 3.94	− 0.61	− 0.49	S.	69 7 2.8	+ 1.6	+ 0.1
7	10 25 49.2	P.	I	3 32 52.32	− 0.37	− 0.35	N.	65 56 50.4	+ 0.4	− 0.6
11	14 1 55.9	S.	II	7 25 20.75	− 0.56	− 0.71	S.	66 37 37.0	− 4.2	− 8.5
13	15 45 12.9	Pr.	II	9 16 47.85	− 0.08	− 0.81	S.	75 20 19.7	0.0	− 8.2
16*	18 9 7.6	P.	I, II	11 52 55.84	+ 0.50	− 0.69	S.	93 52 22.0	+ 1.8	− 8.0
18	19 50 15.4	F.	II	13 42 13.43	+ 0.21	− 0.85	S.	106 7 37.5	− 0.9	− 7.7
19	20 45 49.6	S.	II	14 41 53.27	+ 0.12	− 0.91	.	111 4.7	....	....
30	5 24 1.5	F.	I	0 0 55.89	− 0.57	− 0.44	S.	85 3 21.9	+ 6.7	+ 2.8
1879.										
Feb. 4	10 33 50.4	F.	.	7 35.9	....	....	N.	67 6 48.2	− 5.0	− 6.8
7	13 11 26.2	P.	II	10 23 23.11	− 0.37	− 0.78	S.	82 50 38.6	+ 0.4	− 6.5
14	19 29 17.3	Pr.	II	17 9 52.13	− 0.36	− 1.31	.	116 41.7	....	....
27	4 49 1.9	Pr.	I	3 18 27.38	− 0.48	− 0.32	.	66 39.6	....	....
28	5 38 29.3	F.	I	4 11 59.47	− 0.41	− 0.37	S.	64 24 18.6	+ 4.8	+ 1.5
Mar. 1	6 30 30.0	S.	I	5 8 5.19	− 0.43	− 0.38	S.	63 23 36.2	+ 1.3	− 1.8
14	18 23 10.1	Pr.	II	17 53 57.63	− 0.01	− 1.08	N.	116 19 45.5	+ 0.7	− 0.2
28	4 23 2.4	F.	I	4 46 43.63	− 0.48	− 0.32	S.	63 49 56.8	+ 2.8	− 0.3
31	7 0 34.5	Pr.	I	7 36 31.32	− 0.58	− 0.58	N.	67 35 8.6	+ 0.4	− 2.6
Apr. 1	7 52 22.4	F.	I	8 32 24.21	− 0.40	− 0.67	N.	71 33 43.9	− 1.9	− 5.2
2	8 43 13.2	P.	I	9 27 19.94	− 0.10	− 0.58	N.	76 41 51.0	− 0.7	− 5.0
6	12 10 4.9	S.	II	13 10 31.81	− 0.05	− 0.65	S.	102 49 57.5	+ 0.4	− 6.0
8	14 8 1.5	Pr.	II	15 16 40.94	+ 0.25	− 0.86	S.	112 58 54.1	+ 1.9	− 3.1
24	2 19 0.9	Pr.	I	4 28 48.75	− 0.25	− 0.22	.	64 22.0	....	....

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*Sidereal time of transit of semidiameter, $67^{\mathrm{s}}.02$.

MOON—Continued.

Date.	Mean Time of Transit of Center.			Observer.	Limb.	Apparent Right Ascension of Center.			Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.			Correction to Tables of—	
									Peirce.	Hansen.					Peirce	Hansen.
1879.	h	m	s			h	m	s	s	s		°	′	″	″	″
May 5	11	47	22.9	P.	I	14	42	6.17	− 0.24	− 0.79	S.	110	47	32.2	− 0.1	− 3.3
14	19	52	12.3	Pr.	II	23	23	44.24	− 0.22	− 0.58	N.	89	24	18.3	+ 2.7	+ 5.3
24	2	50	43.6	S.	I	6	58	53.36	− 0.14	− 0.19	.	66	7.4	....	....	....
28	6	5	21.8	S.	I	10	29	49.74	− 0.30	− 0.27	N.	84	11	39.9	+ 0.7	− 2.1
29	6	52	42.2	P.	I	11	21	14.45	− 0.23	− 0.33	N.	90	25	33.4	+ 0.3	− 2.7
31	8	33	21.7	F.	I	13	10	3.59	− 0.22	− 0.52	N.	102	58	28.0	− 1.1	− 5.3
June 1	9	29	7.0	S.	I	14	9	54.57	− 0.26	− 0.58	N.	108	28	21.5	+ 0.8	− 3.1
4	12	38	0.0	F.	II	17	31	8.36	− 0.16	− 0.62	S.	116	1	16.3	− 0.5	+ 0.7
13	19	52	41.2	S.	II	1	22	29.94	− 0.46	− 0.64	N.	75	42	49.5	+ 3.6	+ 4.9
21	1	38	14.2	S.	I	7	36	35.68	− 0.46	− 0.47	.	68	9.9	....	....	....
30	9	15	36.6	P.	I	15	50	42.15	− 0.21	− 0.56	N.	114	29	38.5	+ 0.7	− 1.7
July 1	10	18	50.6	Pr.	I	16	58	3.10	− 0.57	− 0.99	N.	116	0	15.2	− 2.6	− 4.2
2	11	22	18.6	F.	I	18	5	38.13	− 0.40	− 0.83	S.	115	33	15.7	+ 2.3	+ 2.5
3	12	23	13.7	S.	II	19	10	39.81	− 0.28	− 0.70	S.	113	15	20.6	0.0	+ 1.9
13	20	3	59.2	Pr.	II	3	32	6.57	− 0.57	− 0.64	N.	66	15	0.1	+ 2.9	+ 2.0
Aug. 1*	12	0	19.5	P.	I, II	20	42	2.00	− 0.07	− 0.54	N.	106	58	25.6	+ 0.7	+ 3.7
20	[illegible]	20	18.5	S.	I	12	15	20.22	− 0.29	− 0.46	.	97	2.4	....	....	....
28	9	52	34.4	S.	I	20	20	22.95	− 0.18	− 0.53	S.	108	44	28.5	+ 2.0	+ 3.7
Sept. 6	16	37	42.0	P.	II	3	42	6.01	− 0.28	− 0.44	N.	66	1	35.7	+ 4.9	+ 1.5
10	20	1	52.7	P.	II	7	22	36.47	− 0.93	− 0.77	.	67	30.5	....	....	....
24	7	48	41.9	F.	I	20	2	36.99	− 0.19	− 0.72	S.	109	54	19.3	+ 2.6	+ 4.2
25	8	38	56.9	S.	I	20	56	56.79	− 0.24	− 0.61	S.	105	28	32.0	+ 3.5	+ 4.8
26	9	25	44.0	P.	I	21	47	48.09	− 0.44	− 0.67	S.	100	22	10.6	+ 2.4	+ 3.3
27	10	9	56.6	Pr.	I	22	36	4.54	− 0.45	− 0.53	S.	91	53	27.3	+ 1.9	+ 2.4
29	11	34	35.9	S.	I	0	8	50.83	− 0.65	− 0.50	N.	83	49	39.0	+ 6.4	+ 5.5
30	12	16	54.5	P.	II	0	55	13.00	− 0.72	− 0.51	N.	78	40	43.1	+ 6.0	+ 4.6
Oct. 1	13	0	15.5	Pr.	II	1	42	37.64	− 9.78	− 0.59	N.	74	3	4.8	+ 4.9	+ 3.0
9	9	31	14.8	Pr.	II	8	46	13.60	− 0.75	− 0.69	.	71	55.3	....	....	....
20	4	48	0.8	P.	I	18	43	56.58	− 0.84	− 0.72	.	113	53.9	....	....	....
25	8	51	30.4	Pr.	I	23	7	48.91	− 0.43	− 0.54	S.	90	56	59.3	+ 1.6	+ 1.6
26	9	33	13.9	F.	I	23	53	35.87	− 0.52	− 0.53	S.	85	31	2.3	+ 8.2	+ 8.1
29†	11	42	3.0	Pr.	I, II	[illegible]	14	35.86	− 0.69	− 0.58	N.	71	27	37.2	+ 0.9	+ 0.5
30	12	28	16.2	F.	.	3	4.9	.....	....	....	N.	68	9	29.4	+ 3.6	+ 2.3
Nov. 6	18	10	55.9	Pr.	II	9	16	5.03	− 0.50	− 0.71	.	76	45.8	....	....	....
9	20	33	1.3	P.	II	11	50	23.39	− 0.64	− 0.77	.	94	28.9	....	....	....
22	7	32	24.7	Pr.	I	23	38	53.82	− 0.39	− 0.34	S.	87	2	12.7	+ 3.9	+ 2.1
23	8	14	3.2	F.	I	0	24	35.68	− 0.47	− 0.44	S.	81	47	42.0	+ 1.5	+ 0.2
24	8	56	15.5	S.	I	1	10	51.52	− 0.35	− 0.34	S.	76	56	45.0	+ 2.4	+ 1.9
25	9	39	49.7	P.	I	1	58	29.42	− 0.35	− 0.41	S.	72	39	37.3	+ 0.1	+ 0.4
26	10	25	18.1	Pr.	I	2	48	1.83	− 0.37	− 0.49	N.	69	7	19.0	+ 2.5	+ 2.7
Dec. 8	20	3	19.0	Pr.	II	13	14	56.36	− 0.06	− 0.85	.	103	32.3	....	....	....
16	3	9	16.3	Pr.	I	20	49	39.62	− 0.32	− 0.44	S.	105	27	19.5	+ 5.2	+ 6.5
18	4	45	25.4	S.	I	22	33	57.65	− 0.57	− 0.39	S.	94	31	17.3	+ 2.8	+ 0.2
1880.																
Jan. 14	2	35	10.4	E.	I	22	9	48.24	− 0.05	− 0.49	S.	97	15	35.0	− 0.3	+ 2.9
16	4	5	25.7	Pr.	I	23	48	11.51	− 0.22	− 0.45	S.	85	45	31.0	+ 4.1	+ 3.6
18	5	32	19.5	E.	I	1	23	12.70	− 0.54	− 0.46	S.	75	37	9.9	+ 7.0	+ 3.1
21	7	51	9.7	E.	I	3	54	15.36	− 0.75	− 0.34	S.	65	55	47.5	+ 6.5	+ 2.4
23	9	31	31.1	S.	I	5	42	46.41	− 0.54	− 0.22	N.	64	50	26.8	− 1.4	− 3.8
Feb. 16	4	56	6.8	S.	I	2	41	14.22	− 0.38	− 0.35	S.	69	35	58.4	+ 6.2	+ 2.1
20	8	13	15.7	S.	I	6	14	41.67	− 0.68	− 0.22	N.	65	34	26.6	+ 1.4	− 0.3
21	9	3	25.9	P.	I	7	8	56.66	− 0.52	− 0.17	N.	67	36	12.0	− 2.9	− 4.0
Mar. 5	20	28	41.8	E.	II	19	27	20.33	+ 0.25	− 0.06	.	111	20.8	....	....	....
17	5	14	14.0	E.	I	4	57	40.99	− 0.49	− 0.19	S.	65	3	23.7	+ 1.0	− 2.3

* Sidereal time of transit of semidiameter, 68.59 s.
† Sidereal time of transit of semidiameter, 64.37.

MOON—Continued.

Date.		Mean Time of Transit of Center.			Observer.	Limb.	Apparent Right Ascension of Center.			Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.			Correction to Tables of—	
										Peirce.	Hansen.					Peirce.	Hansen.
1880.		h	m	s			h	m	s	s	s		°	′	″	″	″
Mar.	21	8	30	54.8	E.	I	8	30	40.25	− 0.52	− 0.41	N.	73	7	14.9	+ 1.6	+ 1.9
	25	11	40	26.1	E.	I	11	56	28.90	− 0.01	− 0.62	S.	94	59	20.1	+ 2.0	− 3.7
Apr.	13	3	7	14.4	E.	I	4	36	47.44	− 0.62	− 0.27	.	65	31.7	....	....	....
	14	3	56	59.4	E.	I	5	30	37.14	− 0.64	− 0.26	.	65	19.6	....	....	....
	17	6	22	29.2	P.	I	8	8	20.55	− 0.76	− 0.32	N.	71	41	28.0	− 1.7	− 1.0
	18	7	8	53.4	E.	I	8	58	48.95	− 0.75	− 0.43	N.	75	48	48.9	− 3.6	− 2.4
	20	8	40	42.7	S.	I	10	38	46.36	+ 0.06	− 0.36	N.	86	12	11.4	− 3.8	− 4.1
	22	10	17	10.6	E.	I	12	23	23.26	+ 0.10	− 0.69	N.	98	2	22.7	+ 2.0	− 3.6
May	2	19	43	28.3	S.	II	22	30	39.51	+ 0.16	− 0.68	N.	94	37	26.0	+ 0.4	+ 5.0
	3	20	27	47.5	P.	II	23	19	2.56	+ 0.06	− 0.70	.	89	6.2	....	....	....
	14	4	17	22.4	S.	I	7	49	20.12	− 0.65	− 0.28	N.	70	36	21.7	− 0.1	− 1.3
	15	5	3	18.6	P.	I	8	39	20.49	− 0.55	− 0.09	N.	74	20	40.4	− 0.1	− 0.2
	16	5	48	12.0	E.	I	9	28	17.84	− 0.76	− 0.30	N.	78	51	9.9	− 2.0	− 1.0
	18	7	17	51.2	E.	I	11	6	4.89	− 0.39	− 0.27	N.	89	31	43.1	− 2.2	− 2.3
	20	8	54	26.1	E.	I	12	50	48.72	− 1.05	− 0.59	N.	101	0	55.1	+ 0.7	− 3.7
	24	12	55	28.8	E.	II	17	8	17.18	+ 0.01	− 1.03	.	114	34.9	....	....	....
	31	19	10	17.8	P.	II	23	51	43.69	− 0.07	− 0.72	N.	85	13	32.0	+ 2.5	+ 6.6
June	17	7	34	41.8	E.	I	13	21	14.96	− 0.23	− 0.58	N.	104	0	12.0	+ 0.1	− 3.1
	19	9	28	47.5	E.	I	15	23	32.47	− 0.24	− 0.80	N.	112	17	5.2	+ 2.1	− 0.9
July	13	4	40	57.8	R.	I	12	9	32.86	− 0.18	− 0.32	N.	96	46	52.5	− 1.5	− 3.3
	17	8	14	43.6	R.	I	15	59	40.04	− 0.30	− 0.82	N.	113	34	15.4	+ 0.8	− 0.4
	19	10	22	14.6	E.	I	18	15	24.15	− 0.44	− 0.88	N.	113	40	16.6	+ 3.0	+ 3.1
	29	18	50	39.7	R.	II	3	24	39.31	− 0.61	− 0.92	N.	67	43	51.1	+ 3.6	+ 1.7
	30	19	39	32.1	E.	II	4	17	36.25	− 0.43	− 0.67	N.	66	1	14.9	+ 5.1	+ 2.8
Aug.	15	8	7.5	....	R.	.	17	46.7	....	....	....	N.	114	11	0.4	− 0.2	+ 1.5
	16	9	9	1.8	W.	I	18	52	23.84	− 0.25	− 0.80	N.	112	18	35.2	− 0.4	+ 1.4
Sept.	11	6	0	6.1	S.	I	17	25	27.49	− 0.23	− 0.93	N.	114	11	39.4	+ 1.7	+ 1.7
	12	7	0	20.4	R.	I	18	29	48.22	− 0.01	− 0.66	N.	112	57	21.0	+ 1.3	+ 4.5
	14	8	54	23.4	Hn.	I	20	32	3.04	0.00	− 0.65	S.	106	1	23.8	+ 3.0	+ 5.9
	15	9	46	57.4	S.	I	21	28	42.26	− 0.10	− 0.73	S.	100	57	43.5	0.0	+ 4.3
	16	10	36	55.4	R.	I	22	22	44.99	− 0.14	− 0.65	S.	95	20	34.9	− 1.0	+ 2.5
	18	12	12	14.8	Hn.	II	0	6	13.20	− 0.64	− 0.78	.	83	51.9	....	....	....
	28	20	14.5	....	R.	.	8	49.3	....	....	....	S.	75	30	54.7	− 5.0	− 5.9
	29	20	59	33.4	W.	II	9	38	20.52	− 0.69	− 0.66	S.	80	4	58.9	− 3.8	− 4.4
Oct.	6	1	54	29.7	R.	I	14	57	44.60	− 1.00	− 0.97	.	110	27.2	....	....	....
	7	2	53	34.5	W.	I	16	0	55.67	− 0.58	− 0.77	N.	113	1	18.6	− 4.8	− 3.4
	10	5	53	59.5	R.	I	19	13	39.97	− 0.05	− 0.83	S.	110	53	15.8	− 3.2	− 0.6
	11	6	49	41.3	W.	I	20	13	27.40	− 0.04	− 0.78	.	107	12.4	....	....	....
	12	7	42	4.3	Hn.	I	21	9	55.64	− 0.12	− 0.78	S.	102	32	15.6	+ 1.5	+ 4.6
	13	8	31	37.4	S.	I	22	3	33.43	− 0.08	− 0.65	.	97	14.2	....	....	....
	15	10	5	41.4	W.	I	23	45	45.97	− 0.33	− 0.70	S.	86	2	30.2	− 3.6	− 6.2
	17	11	38	58.1	E.	I	1	27	11.06	− 0.80	− 0.91	N.	75	56	59.7	− 2.3	− 2.9
	18	12	26	54.4	R.	II	2	19	11.79	− 1.10	− 1.09	N.	71	56	16.8	+ 4.7	+ 2.7
Nov.	7	4	45	5.0	R.	I	19	54	57.65	− 0.64	− 0.78	S.	108	15	26.9	+ 3.3	+ 2.7
	8	5	39	3 4	W.	I	20	53	1.43	− 0.36	− 0.67	S.	103	48	38.7	+ 7.8	+ 7.1
	9	6	29	25.4	Hn.	I	21	47	28.27	− 0.31	− 0.75	.	98	40.4	....	....	....
	11	8	3	11.3	R.	I	23	29	22.66	− 0.27	− 0.69	S.	87	40	55.2	+ 2.5	+ 3.7
	12	8	48	43.5	W.	I	0	18	58.89	− 0.31	− 0.60	S.	82	22	21.3	− 0.9	+ 0.3
Dec.	7	5	14	11.6	Hn.	I	22	22	25.69	− 0.61	− 0.56	S.	94	53	1.1	+ 7.2	+ 4.5
	9	6	47	20.0	R.	I	0	3	42.48	− 0.26	− 0.53	S.	83	51	27.2	+ 3.5	+ 3.0
	13	9	54	53.5	R.	I	3	27	33.04	− 0.32	− 0.50	.	68	13.2	....	....	....
	16	12	23	46.9	S.	II	6	8	40.63	− 0.85	− 0.72	N.	66	59	28.3	− 2.4	− 4.5
1881.																	
Jan.	23	18	46	20.2	R.	II	15	[illegible]	5.97	+ 0.77	− 0.98	S.	110	31	36.6	+ 0.5	− 2.5
Feb.	4	4	57	59.7	R.	I	1	58	48.02	− 0.14	− 0.52	S.	73	30	9.4	+ 2.7	+ 0.9
	5	5	46	51.4	W.	I	2	51	44.34	− 0.45	− 0.62	S.	70	5	55.6	+ 4.1	+ 1.5
	6	6	36	16.4	E.	I	3	45	13.98	− 0.63	− 0.63	S.	67	45	15.1	+ 3.1	+ 0.5
	16	14	16	2.8	R.	II	12	5	41.42	− 0.31	− 0.85	S.	96	2	57.6	− 1.6	− 5.8
Mar.	6	5	18	39.2	E.	I	4	17	47.56	− 0.44	− 0.43	S.	67	8	20.4	+ 2.4	− 1.3

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of—	
					Peirce.	Hansen.			Peirce.	Hansen.
1881.	h m s			h m s	s	s		° ′ ″	″	″
Mar. 7	6 8 58.1	S.	I	5 12 11.30	− 0.60	− 0.43	S.	66 37 8.6	+ 0.6	− 1.9
10	8 33 10.1	E.	I	7 48 26.57	− 0.76	− 0.59	N.	71 38 31.4	− 3.5	− 3.4
11	9 18 17.9	S.	I	8 37 48.33	− 0.46	− 0.39	N.	75 8 30.3	− 8.8	− 8.8
13	10 45 34.9	W.	I	10 13 12.80	− 0.14	− 0.37	S.	84 0 39.9	− 5.4	− 7.4
23	19 25 26.3	S.	II	19 33 55.10	+ 0.40	− 1.18	.	109 6.1	....	....
Apr. 2	3 8 25.5	W.	I	3 53 39.36	− 0.09	− 0.27	.	67 59.0	....	....
5	5 39 18.2	R.	I	6 36 46.52	− 0.46	− 0.19	N.	68 24 37.9	+ 0.6	− 0.2
10	9 22 40.5	W.	I	10 40 28.26	− 0.37	− 0.39	N.	87 0 47.0	+ 1.5	+ 2.3
22	20 0 50.0	W.	II	22 7 41.25	+ 0.25	− 0.97	N.	96 18 9.1	+ 3.8	+ 9.4
30	1 49 53.5	W.	I	4 25 17.93	− 0.30	− 0.33	.	67 23.0	....	....
May 1	2 41 12.2	E.	I	5 20 41.63	− 0.53	− 0.46	.	67 3.2	....	....
7	7 15 52.2	R.	.	10 6.3	....	....	N.	85 1 34.9	− 4.9	− 1.8
8	7 58 44.0	W.	I	11 6 41.52	− 0.58	− 0.34	N.	89 56 57.1	− 6.0	− 3.6
9	8 42 52.2	E.	I	11 54 53.50	− 0.49	− 0.42	N.	95 0 21.5	− 3.7	− 3.0
12	11 12 31.8	W.	.	14 36.8	....	....	S.	108 32 49.0	+ 1.2	− 0.9
24	22 0 45.0	E.	II	2 14 5.76	− 0.27	− 0.84	.	72 50.7	....	....
31	3 0 19.9	R.	I	7 38 9.19	− 0.81	− 0.49	N.	71 32 58.1	+ 3.8	+ 2.5
June 8	8 57 41.7	R.	I	14 8 2.17	− 0.28	− 0.60	N.	106 45 56.0	− 0.5	− 2.9
11*	11 54 50.9	W.	I, II	17 17 30.07	− 0.04	− 0.88	N. S.	112 54 29.0	+ 0.5	+ 0.7
12	12 58 1.0	R.	II	18 24 47.16	+ 0.06	− 0.92	N.	111 43 55.1	+ 0.3	+ 2.8
July 2	4 31 40.4	R.	I	11 15 54.56	− 0.46	− 0.32	N.	90 56 59.4	− 2.3	− 2.9
3	5 14 17.4	W.	I	12 2 35.07	− 0.35	− 0.30	N.	95 48 12.8	− 0.5	− 1.2
5	6 46 35.7	S.	I	13 43 1.71	− 0.42	− 0.54	N.	104 53 59.7	+ 0.3	− 1.1
8	9 34 25.9	E.	I	16 43 9.07	− 0.58	− 0.95	.	112 48.0	....	....
9	10 37 9.8	S.	I	17 49 59.83	− 0.30	− 0.80	N.	112 43 8.5	+ 1.8	+ 1.0
10	11 40 15.1	R.	I	18 57 12.06	− 0.08	− 0.71	N.	110 32 58.6	+ 1.7	+ 2.9
11	12 41 31.8	W.	.	20 2.6	....	....	N.	106 57 12.3	+ 2.3	+ 5.6
18	18 44 52.2	R.	II	2 34 31.38	+ 0.12	− 0.89	N.	71 39 40.8	+ 2.6	+ 4.5
Aug. 3	6 22 27.9	R.	I	15 13 10.02	− 0.51	− 0.51	N.	110 13 0.9	− 7.7	− 7.7
4	7 18 50.1	W.	I	16 13 38.08	− 0.49	− 0.81	N.	112 12 32.7	+ 0.5	+ 0.1
5	8 18 31.7	E.	I	17 17 25.98	− 0.56	− 0.87	N.	112 46 25.8	+ 1.1	+ 0.4
8	11 21 17.5	W.	I	20 32 31.55	− 0.49	− 0.85	N.	104 48 33.7	+ 3.6	+ 4.9
11	14 5 48.8	R.	II	23 29 19.53	− 0.65	− 1.12	N.	87 51 2.1	+ 0.8	+ 1.4
19	20 50 46.0	R.	II	6 46 55.62	− 0.39	− 0.70	.	69 9.4	....	....
Sept. 5	10 1 32.9	R.	I	21 2 57.27	− 0.33	− 0.70	S.	102 16 43.5	+ 5.1	+ 7.5
Oct. 1	6 54 34.6	S.	I	19 38 58.65	− 0.13	− 0.82	S.	108 4 58.2	− 2.9	+ 1.0
6	11 21 10.1	R.	I	0 25 0.74	− 0.37	− 0.73	N.	82 24 51.9	+ 3.8	+ 5.4
15	18 58 31.1	W.	II	8 39 5.83	− 0.76	− 0.73	S.	76 5 23.0	− 2.3	− 3.3
17	20 23 54.7	S.	II	10 12 36.53	− 0.69	− 0.64	.	84 22.7	....	....
19	21 48 52.8	E.	II	11 45 41.70	− 0.54	− 0.60	.	93 46.3	....	....
25	1 57 42.2	S.	I	16 14 54.71	− 0.62	− 0.77	.	111 36.0	....	....
Nov. 5†	11 47 6.5	E.	I, II	2 49 18.35	− 0.39	− 0.85	N.	71 30 44.2	− 0.1	0.0
13	18 18 20.6	E.	II	9 53 8.80	− 0.44	− 0.44	S.	82 38 34.7	− 3.8	− 3.0
14	19 0 5.6	S.	II	10 38 57.23	− 0.64	− 0.53	S.	87 7 51.4	− 1.2	− 9.6
15	19 42 7.6	R.	II	11 25 2.67	− 0.86	− 0.67	S.	91 47 59.9	− 6.8	− 4.9
25	3 40 49.2	E.	I	20 0 31.88	− 0.16	− 0.77	S.	106 26 21.6	+ 1.1	+ 3.3
27	5 27 32.6	R.	I	21 55 26.01	+ 0.17	− 0.52	S.	97 6 54.9	+ 3.3	+ 4.7
28	6 17 51.9	W.	I	22 49 50.11	− 0.11	− 0.75	S.	91 44 50.6	+ 3.6	+ 4.4
29	7 7 17.1	E.	I	23 43 19.95	− 0.27	− 0.79	S.	86 20 29.5	+ 3.0	+ 3.6
Dec. 1	8 46 55.4	R.	I	1 31 7.70	− 0.12	− 0.56	S.	76 34 41.6	− 1.0	+ 0.6
2	9 38 19.6	W.	I	2 26 36.96	− 0.12	− 0.59	.	72 45.4	....	....
5‡	12 17 8.2	R.	I, II	5 17 40.85	− 0.32	− 0.67	S.	67 56 47.3	− 1.0	− 0.7
15	19 47 41.8	E.	II	13 28 54.49	− 0.88	− 0.90	S.	103 13 57.0	− 3.0	− 3.0
16	20 37 7.8	S.	II	14 22 25.17	− 1.07	− 1.01	.	106 58.6	....	....
24	3 21 49.4	S.	I	21 35 49.17	− 0.28	− 0.83	S.	99 0 35.5	+ 0.8	+ 3.9
27	5 54 37.9	E.	I	0 20 52.49	− 0.21	− 0.74	S.	88 44 43.3	+ 0.7	+ 1.1
28	6 44 24.6	S.	I	1 14 43.86	− 0.11	− 0.63	S.	77 57 8.6	+ 2.0	+ 2.8
1882.										
Jan. 23	3 48 46.6	E.	I	0 1 7.52	− 0.21	− 0.83	S.	84 50 24.7	+ 1.4	+ 3.8

* Sidereal time of transit of semidiameter, 75.05ˢ; observed semidiameter, 16′ 32.0″.

† Sidereal time of transit of semidiameter, 69.46ˢ.

‡ Sidereal time of transit of semidiameter, 68.03ˢ.

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of— Peirce.	Correction to Tables of— Hansen.	Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of— Peirce.	Correction to Tables of— Hansen.
1882.	h m s			h m s	s	s		° ′ ″	″	″
Jan. 27	7 15 9.9	E.	I	3 43 50.96	− 0.28	− 0.78	S.	69 25 19.8	+ 2.1	+ 1.8
Feb. 1	11 22 59.8	S.	I	8 12 4.29	− 0.54	− 0.62	S.	74 13 57.2	− 2.0	− 5.0
2*	12 7 17.0	R.	I, II	9 0 25.38	− 0.73	− 0.71	S.	77 48 45.7	− 0.7	− 3.2
10	17 59 31.9	R.	II	15 25 10.61	− 0.08	− 1.02	S.	109 45 3.5	− 4.1	− 3.0
24	6 2 24.7	R.	I	4 21 17.35	− 0.31	− 0.62	S.	68 44 21.2	+ 5.0	+ 2.0
25	6 54 38.3	S.	I	5 17 36.03	− 0.43	− 0.64	S.	68 17 30.2	+ 2.1	− 0.5
26	7 45 20.8	E.	I	6 12 23.46	− 0.44	− 0.64	N.	68 59 45.7	+ 1.6	− 0.9
27	8 34 7.0	R.	I	7 5 14.20	− 0.39	− 0.59	N.	70 43 48.4	+ 1.4	− 1.4
Mar. 2	10 48 34.9	R.	I	9 31 53.87	− 0.40	− 0.66	N.	80 31 27.4	− 1.5	− 5.9
3	11 30 33.8	W.	I	10 17 56.23	− 0.27	− 0.57	N.	84 45 55.4	− 0.4	− 4.5
4†	12 12 2.8	E.	I, II	11 3 28.60	− 0.37	− 0.73	S.	89 13 17.4	+ 0.6	− 3.5
23	3 52 1.2	W.	I	3 56 59.30	+ 0.24	− 0.50	S.	69 33 1.5	+ 4.1	− 0.1
25	5 38 56.9	W.	I	5 52 5.67	− 0.32	− 0.40	N.	68 51 50.6	+ 4.9	+ 1.2
26	6 29 16.7	R.	I	6 46 30.31	− 0.71	− 0.61	N.	70 14 46.9	+ 1.2	− 1.1
28	8 2 39.4	E.	I	8 28 1.40	− 0.60	− 0.49	N.	76 38 19.6	− 2.2	− 3.4
29	8 46 15.7	S.	I	9 15 41.49	− 0.56	− 0.54	N.	79 17 52.7	− 1.2	− 2.8
30	9 28 32.4	R.	I	10 [illegible] 1.70	− 0.52	− 0.57	N.	83 22 53.6	− 1.6	− 3.9
Apr. 12	20 10 58.8	W.	II	21 37 28.79	+ 0.39	− 1.19	N.	98 44 41.8	+ 3.0	+ 10.2
24	5 57 19.2	W.	I	8 8 47.60	− 0.76	− 0.56	N.	74 31 51.4	− 1.3	− 1.7
25	6 42 1.0	E.	I	8 57 33.32	− 0.86	− 0.56	N.	78 0 3.9	− 3.4	− 2.4
27	8 6 42.4	R.	I	10 30 21.73	− 0.78	− 0.44	N.	86 11 16.8	− 3.4	− 1.8
30	10 13 52.2	S.	I	12 49 42.06	− 0.62	− 0.60	N.	99 20 34.1	− 4.0	− 4.4
May 1	10 59 25.8	R.	I	13 39 19.68	− 0.56	− 0.71	N.	103 18 18.7	− 3.7	− 4.7
2	11 47 35.6	W.	I	14 31 33.96	− 0.40	− 0.75	S.	106 42 38.7	− 3.2	− 4.0
3	12 38 33.7	E.	II	15 26 37.01	− 0.50	− 1.05	S.	109 18 55.3	− 3.4	− 3.6
23	5 19 46.0	E.	I	9 25 28.28	− 0.82	− 0.58	N.	80 20 6.3	− 2.8	− 1.9
25	6 43 38.5	R.	I	10 57 27.70	− 0.84	− 0.45	N.	88 50 44.1	− 6.5	− 4.0
26	7 25 15.4	W.	I	11 43 8.04	− 1.02	− 0.56	N.	93 16 17.0	− 5.1	− 2.6
29	9 39 17.3	R.	I	14 9 21.60	− 0.92	− 0.66	N.	105 22 50.9	− 7.7	− 7.6
June 2	13 5 28.5	R.	II	18 1 54.51	− 0.26	− 1.09	N.	110 45 29.8	+ 0.6	+ 2.4
21	4 39 10.5	S.	I	10 39 6.29	− 0.81	− 0.56	N.	86 59 4.6	− 3.2	− 1.9
27	9 9 58.4	W.	I	15 34 18.08	− 1.13	− 1.04	N.	109 33 16.5	+ 1.0	− 0.5
29	11 1 46.8	S.	I	17 34 17.86	− 0.84	− 0.85	.	111 9.0	....	....
July 9	20 2 46.8	W.	II	3 16 12.36	− 0.03	− 1.11	N.	71 11 53.8	+ 1.1	+ 2.3
12	22 43 26.7	W.	II	6 9 8.34	− 0.24	− 0.99	.	60 23.2	....	....
24	6 58 46.9	R.	I	15 9 12.01	− 1.00	− 0.88	N.	108 22 0.8	− 2.7	− 2.9
25	7 50 48.3	W.	I	16 5 18.55	− 1.09	− 1.00	N.	110 19 15.7	− 2.0	− 3.2
28‡	10 41 46.2	R.	I	19 8 34.20	− 0.38	− 1.01	N. S.	108 41 1.6	+ 1.5	+ 1.8
Aug. 21	5 41 23.4	W.	I	15 41 59.34	− 0.79	− 0.75	N.	109 24 3.9	− 2.5	− 0.5
Sept. 15	2 3 39.9	W.	I	13 42 13.91	− 0.60	− 0.53	.	102 48.4	....	....
19	5 19 28.8	S.	I	17 14 21.17	− 0.51	− 0.58	N.	110 40 46.5	+ 1.6	+ 4.6
Oct. 14	1 34 46.9	W.	I	15 7 36.18	− 0.46	− 0.61	.	107 42.0	....	....
Nov. 2	18 27 21.6	W.	II	9 17 51.69	− 0.59	− 0.75	S.	79 47 40.0	− 7.1	− 7.0
15	3 51 34.9	W.	I	19 30 56.35	− 0.09	− 0.76	S.	107 6 41.8	− 3.2	− 0.1
20	8 10 23.4	S.	I	0 10 10.18	+ 0.13	− 0.52	S.	84 44 10.1	− 0.2	+ 1.3
21	9 3 55.7	W.	I	1 7 47.85	− 0.10	− 0.78	S.	79 50 6.6	+ 0.1	+ 1.9
1883.					....				....	
Feb. 18	9 58.8	R.	I	7 53 41.37	....	− 0.16	N.	74 0 5.9	....	+ 1.0
19	10 46.5	W.	I	8 45 27.03	....	+ 0.10	S.	77 9 14.1	....	+ 1.9
Mar. 3	19 59.5	W.	II	18 47 19.56	....	+ 0.07	N.	108 40 12.6	....	+ 3.8
4	20 53.9	S.	II	19 45 49.32	....	− 0.12	.	106 17.8	....	....
16	7 5.6	W.	I	6 42 31.23	....	+ 0.14	N.	71 16 20.2	....	− 0.2
20	10 14.1	W.	I	10 7 17.36		+ 0.08	N.	83 36 36.8	....	+ 0.1
Apr. 14	6 41.2	S.	I	8 12 21.22	....	− 0.03	N.	75 21 16.8	....	+ 1.2
17	8 55.6	E.	.	10 39.0	....	....	N.	86 27 20.7	....	+ 1.4
18	9 37.7	S.	I	11 25 7.48	....	+ 0.13	N.	90 34 56.7	....	+ 0.6
20	11 2.0	W.	I	12 57 35.62	....	− 0.05	N.	98 33 28.2	....	0.0
24	14 5.5	W.	II	16 17 22.45	....	− 0.14	S.	109 7 13.6	....	+ 3.2
26	15 46.1	S.	II	18 6 6.14	....	0.00	.	109 22.4	....	....

* Sidereal time of transit of semidiameter, 62.30 s.
† Sidereal time of transit of semidiameter, 60.96.

‡ Observed semidiameter, 16′ 17.6″.

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of—	
					Peirce.	Hansen.			Peirce.	Hansen.
1883.	h m			h m s	s	s		° ′ ″	″	″
Apr. 27	16 37.3	R.	II	19 1 25.49	....	− 0.11	N.	107 56 17.5	....	+ 1.7
29	18 19.8	E.	II	20 52 6.20	....	− 0.26	N.	102 5 32.5	....	+ 4.1
May 2	20 55.4	S.	II	23 39 57.06	....	− 0.18	.	88 4.4	....	....
9	2 44.3	R.	I	5 53 24.57	....	+ 0.31	.	70 26.4	....	....
10	3 40.5	W.	I	6 53 46.46	....	+ 0.14	N.	71 47 51.7	....	+ 5.3
16	8 17.6	S.	I	11 55 15.10	....	+ 0.11	N.	93 16 40.6	....	+ 2.3
17	8 59.8	E.	I	12 41 28.37	....	− 0.04	N.	97 14 58.4	....	+ 1.3
18	9 42.8	W.	I	13 28 34.94	....	− 0.06	N.	100 56 2.3	....	+ 1.4
19	10 27.3	E.	I	14 17 8.42	....	− 0.07	N.	104 10 48.3	....	+ 1.4
June 1	21 29.0	R.	II	2 11 50.00	....	− 0.32	.	76 10.3	....	....
11	5 31.6	W.	I	10 51 15.04	....	+ 0.11	N.	87 25 41.4	....	− 0.5
14	7 39.0	R.	I	13 10 54.52	....	− 0.39	N.	99 30 18.9	....	+ 0.1
15	8 22.9	W.	I	13 58 47.69	....	− 0.06	N.	102 56 40.2	....	− 2.1
29	20 16.4	S.	II	2 49 29.72	....	− 0.29	N.	74 10 1.9	....	+ 2.1
30	21 13.8	W.	II	3 50 58.42	....	− 0.24	N.	71 37 45.4	....	+ 1.5
July 10	4 51.8	E.	I	12 5 44.31	....	+ 0.07	N.	93 51 33.9	....	+ 3.4
11	5 34.4	S.	I	12 52 25.18	....	+ 0.19	N.	97 49 0.8	....	+ 3.7
14	7 48.6	E.	I	15 18 48.77	....	+ 0.01	N.	107 6 5.4	....	+ 0.7
16	9 27.6	R.	I	17 5 52.54	....	+ 0.08	N.	109 41 12.3	....	+ 2.1
17	10 19.6	W.	I	18 2 1.19	....	− 0.05	N.	109 28 15.0	....	+ 0.8
18	11 12.6	E.	I	18 59 5.55	....	− 0.07	N.	108 8 34.6	....	0.0
Aug. 7	3 29.7	E.	I	12 33 46.37	....	+ 0.08	N.	96 1 25.3	....	+ 2.7
11	6 28.8	R.	I	15 49 6.37	....	+ 0.15	N.	107 59 19.8	....	+ 2.5
21	15 13.0	R.	II	1 14 10.35	....	− 0.18	N.	80 49 28.8	....	+ 0.3
Sept. 6	3 36.7	R.	I	14 39 5.39	....	+ 0.02	N.	104 41 40.6	....	+ 2.2
9	5 58.8	S.	I	17 13 25.94	....	+ 0.28	N.	109 18 27.2	....	+ 2.7
15	11 11.9	W.	I	22 51 0.80	....	− 0.02	N.	93 2 28.9	....	+ 4.9
Oct. 9	6 22.0	W.	I	19 34 56.22	....	+ 0.03	S.	106 22 48.3	....	− 1.7
10	7 12.8	S.	I	20 29 47.57	....	+ 0.24	S.	103 34 15.7	....	− 0.3
11	8 4.0	E.	I	21 25 6.32	....	+ 0.09	S.	99 53 47.9	....	− 1.1
15*	11 39.8	S.	I, II	1 17 18.05	....	+ 0.01	N.	80 44 24.8	....	− 0.2
16	12 38.3	W.	II	2 19 49.83	....	− 0.18	N.	76 30 59.0	....	− 1.1
Nov. 3	2 38.3	E.	I	17 29 13.94	....	+ 0.39	.	109 10.5	....	....
5	4 16.7	P.	I	19 15 43.29	....	+ 0.21	S.	107 8 16.6	....	− 1.4
6	5 6.0	W.	I	20 9 7.65	....	+ 0.24	S.	104 43 50.2	....	+ 1.3
7	5 55.4	E.	I	21 2 33.59	....	− 0.01	S.	101 29 9.9	....	+ 0.1
9	7 35.4	S.	I	22 50 46.01	....	+ 0.15	S.	93 0 41.5	....	− 1.3
12	10 17.6	S.	I	1 45 14.17	....	+ 0.13	S.	78 44 10.7	....	− 3.2
13	11 16.8	P.	I	2 48 31.55	....	+ 0.17	S.	74 55 13.7	....	− 1.2
14	12 18.0	W.	II	3 53 53.20	....	− 0.07	S.	72 13 30.6	....	− 1.0
17	15 18.9	P.	II	7 7 5.51	....	− 0.11	S.	72 31 36.3	....	− 0.2
Dec. 3	3 3.5	P.	I	19 52 42.98	....	+ 0.05	S.	105 40 46.9	....	− 0.5
4	3 52.4	W.	I	20 45 43.19	....	+ 0.20	S.	102 43 27.4	....	0.0
5	4 41.0	E.	I	21 38 23.49	....	+ 0.09	S.	99 3 16.4	....	+ 0.7
6	5 29.6	S.	I	22 31 7.12	....	+ 0.08	S.	94 49 41.6	....	− 0.5
9	8 2.7	E.	I	1 16 24.72	....	+ 0.07	S.	80 55 1.2	....	− 1.8
10	8 58.5	S.	I	2 16 16.06	....	+ 0.07	S.	76 48 13.0	....	− 1.1
11	9 57.1	P.	I	3 19 1.77	....	+ 0.20	S.	73 31 52.9	....	− 1.2
12	10 58.0	W.	I	4 24 2.34	....	+ 0.07	S.	71 26 29.0	....	+ 0.3
1884.										
Feb. 1	3 54.8	P.	I	0 40 43.71	....	+ 0.22	S.	84 15 14.5	....	− 4.2
2	4 46.9	W.	I	1 36 53.03	....	+ 0.17	S.	79 55 46.5	....	− 1.5
3	5 40.6	E.	I	2 34 44.45	....	+ 0.19	S.	76 11 35.3	....	− 2.8
21	20 41.6	P.	II	18 49 4.84	....	− 0.15	.	107 57.5	....	....
Mar. 2	4 32.1	E.	I	3 16 22.71	....	+ 0.20	S.	74 17 56.3	....	− 2.7
4	6 26.5	P.	I	5 19 2.99	....	+ 0.20	S.	71 13 18.4	....	− 1.6
6	8 18.7	E.	I	7 19 22.61	....	− 0.07	N.	73 1 7.2	....	− 0.5
10	11 38.2	E.	I	10 55 9.67	....	− 0.04	N.	86 41 9.4	....	− 1.7
30	3 20.8	E.	I	3 55 19.70	....	+ 0.24	.	72 54.4	....	....

*Sidereal time of transit of semidiameter, 70.66 s.

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of—	
					Peirce.	Hansen.			Peirce.	Hansen.
1884.	h m			h m s	s	s		° ′ ″	″	″
Mar. 31	4 20.0	E.	I	4 58 35.46	....	+ 0.36	S.	71 30 37.8	....	+ 2.4
Apr. 2	6 14.8	W.	I	7 1 37.37	....	+ 0.34	N.	72 33 56.8	....	+ 0.5
3	7 8.7	E.	I	7 59 37.25	....	+ 0.08	N.	74 45 37.7	....	+ 0.1
4	7 59.9	S.	I	8 54 51.71	....	+ 0.13	N.	77 46 38.5	....	+ 0.8
5	8 48.5	P.	I	9 47 34.19	....	+ 0.18	N.	81 22 35.3	....	− 0.9
6	9 35.1	W.	I	10 38 14.00	....	+ 0.17	N.	85 20 0.2	....	0.0
7	10 20.3	E.	I	11 27 27.68	....	+ 0.01	N.	89 26 29.9	....	+ 1.8
17	18 2.1	P.	II	19 50 1.13	....	− 0.32	N.	105 40 12.5	....	+ 1.4
18	18 50.6	W.	II	20 42 36.31	....	− 0.36	N.	102 57 41.8	....	+ 0.7
20	20 29.0	S.	II	22 29 9.12	....	− 0.07	.	95 24.2	....	....
27	2 5.6	E.	I	4 30 19.33	....	+ 0.25	.	71 58.0	....	....
28	3 6.8	S.	I	5 35 35.47	....	+ 0.17	.	71 17.6	....	....
29	4 6.3	P.	I	6 39 12.23	....	+ 0.08	..	71 59.4	....	....
30	5 3.0	E.	I	7 39 57.64	....	+ 0.08	N.	73 52 56.8	....	+ 3.2
May 1	5 56.3	W.	I	8 37 21.00	....	+ 0.12	N.	76 42 30.7	....	+ 2.3
17	18 20.8	E.	II	22 7 3.51	....	− 0.31	N.	97 15 6.2	....	+ 0.8
18	19 9.4	S.	II	22 59 37.79	....	− 0.17	N.	92 59 57.3	....	+ 1.0
19	19 59.3	P.	II	23 53 37.38	....	− 0.12	N.	88 26 5.4	....	− 0.1
20	20 51.4	W.	II	0 49 47.61	....	− 0.20	N.	83 48 6.0	....	+ 2.0
29	4 40.1	E.	I	9 11 24.14	....	+ 0.04	N.	78 40 7.4	....	+ 1.8
31	6 16.8	P.	I	10 56 12.96	....	+ 0.12	N.	86 38 35.1	....	+ 2.1
June 1	7 1.8	E.	.	11 45.3	....	....	N.	90 47 40.0	....	+ 2.1
2	7 45.9	E.	I	12 33 24.69	....	− 0.09	N.	94 48 58.5	....	+ 1.4
3	8 29.6	S.	I	13 21 11.83	....	− 0.11	N.	98 33 52.0	....	+ 0.3
4	9 13.6	P.	I	14 9 19.79	....	+ 0.06	N.	101 54 27.3	....	+ 0.8
5	9 58.5	W.	I	14 58 15.49	....	− 0.03	N.	104 43 4.8	....	+ 0.2
6	10 44.4	E.	I	15 48 13.54	....	− 0.16	N.	106 52 27.0	....	+ 0.4
8	12 19.1	P.	II	17 31 3.52	....	− 0.20	N.	108 48 37.8	....	+ 0.5
16	18 42.4	P.	II	0 26 59.34	....	− 0.22	N.	85 50 39.8	....	+ 0.2
17	19 34.1	W.	.	1 22.8	....	....	N.	81 26 17.7	....	+ 0.8
18	20 28.8	E.	II	2 21 28.29	....	− 0.35	.	77 25.9	....	....
19	21 26.6	P.	II	3 23 25.52	....	− 0.27	.	74 10.3	....	....
20	22 27.3	W.	II	4 28 11.91	....	− 0.35	.	72 0.3	....	....
28	4 57.3	P.	I	11 26 54.80	....	+ 0.12	N.	88 59 12.0	....	+ 1.0
July 3	8 41.2	W.	I	15 31 10.67	....	0.00	N.	106 5 18.1	....	− 0.8
6	11 3.6	P.	I	18 5 42.00	....	+ 0.07	N.	108 40 34.1	....	− 1.7
7	11 52.1	W.	I	18 58 21.58	....	− 0.09	N.	107 46 0.1	....	+ 1.0
16	19 15.8	E.	II	2 58 41.60	....	− 0.49	N.	75 33 2.0	....	+ 0.5
30	6 36.7	P.	I	15 12 42.57	....	− 0.09	N.	105 2 10.0	....	+ 0.9
Aug. 1	8 9.9	E.	I	16 54 2.61	....	− 0.10	N.	108 16 32.1	....	+ 1.6
3	9 46.3	P.	I	18 38 38.84	....	+ 0.16	N.	108 7 39.5	....	+ 2.6
5	11 23.9	E.	I	20 24 21.99	....	− 0.01	N.	104 23 45.1	....	+ 0.7
13	18 6.7	E.	II	3 39 51.11	....	− 0.31	N.	73 54 7.2	....	+ 0.3
14	19 4.0	W.	II	4 41 15.89	....	− 0.15	N.	72 3 36.8	....	− 1.0
15	20 2.6	P.	II	5 43 56.01	....	− 0.22	.	71 26.2	....	....
24	2 59.4	W.	I	13 13 21.15	....	+ 0.16	N.	97 17 6.7	....	− 1.7
25	3 44.9	E.	I	14 2 57.61	....	+ 0.06	N.	100 49 31.9	....	+ 0.6
26	4 30.5	E.	I	14 52 38.50	....	+ 0.11	N.	103 48 17.9	....	+ 1.8
27	5 16.6	P.	I	15 42 45.05	....	+ 0.13	N.	106 7 9.4	....	+ 2.6
29	6 50.6	E.	I	17 24 56.44	....	− 0.48	N.	108 25 23.0	....	+ 1.2
31	8 27.0	P.	I	19 9 28.83	....	+ 0.11	S.	107 16 8.9	....	− 2.2
Sept. 1	9 15.6	W.	I	20 2 12.16	....	+ 0.13	S.	105 21 56.3	....	+ 1.9
2	10 4.4	E.	I	20 55 0.80	....	− 0.03	S.	102 38 5.0	....	+ 0.9
3	10 53.2	S.	I	21 47 54.10	....	+ 0.08	S.	99 10 50.1	....	− 1.7
14	20 46.5	S.	II	8 26 13.00	....	− 0.29	.	75 49.3	....	....
28	7 6.3	S.	I	19 39 0.90	....	+ 0.10	S.	106 13 9.2	....	− 0.9
29	7 54.3	S.	I	20 31 4.70	....	+ 0.01	S	103 53 37.9	....	+ 1.2
Oct. 12	19 35.4	S.	II	9 5 20.73	....	− 0.25	S.	78 3 15.9	....	− 2.9
13	20 25.7	E.	II	9 59 39.93	....	− 0.18	.	81 43.1	....	....

MOON—Continued.

Date.	Mean Time of Transit of Center.		Observer.	Limb.	Apparent Right Ascension of Center.			Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.			Correction to Tables of—	
								Peirce.	Hansen.					Peirce.	Hansen.
1884.	h	m			h	m	s	s	s		°	′	″	″	″
Oct. 23	3	24.6	P.	I	17	35	13.12	....	+ 0.23	.	108	22.7	....	....	....
25	4	59.1	S.	I	19	17	51.11	....	+ 0.11	S.	106	57	37.7	....	− 1.8
26	5	46.1	P.	I	20	8	57.88	....	+ 0.21	S.	105	0	42.6	....	− 0.8
31	9	48.2	P.	I	0	31	24.46	....	+ 0.11	S.	86	5	27.3	....	− 4.3
Nov. 1	10	41.6	E.	I	1	28	54.45	....	− 0.09	S.	81	38	1.2	....	− 3.0
10	19	12.3	S.	II	10	36	28.53	....	− 0.25	S.	84	25	48.5	....	− 4.6
11	19	59.1	P.	II	11	27	21.24	....	− 0.35	S.	88	34	13.5	....	− 3.7
12	20	44.7	W.	II	12	16	59.06	....	− 0.12	S.	92	41	38.4	....	− 3.5
21	2	54.8	E.	I	18	59	39.23	....	+ 0.13	.	107	35.8	....	....	....
22	3	41.5	S.	I	19	50	28.45	....	+ 0.14	S.	105	57	48.7	....	− 1.8
24	5	13.8	W.	I	21	30	54.84	....	+ 0.01	S.	100	31	1.7	....	+ 0.1
26	6	46.8	S.	I	23	12	0.53	....	+ 0.09	S.	92	49	11.3	....	− 0.4
29	9	19.0	E.	I	1	56	31.18	....	+ 0.01	S.	79	46	14.1	....	− 1.9
Dec. 2	12	18.8	W.	II	5	8	33.88	....	+ 0.08	S.	71	42	36.6	....	− 1.0
9	18	43.4	P.	II	12	1	48.69	....	− 0.20	S.	91	13	55.3	....	− 1.2
1885.															
Jan. 9	19	41.5	S.	II	15	2	21.66	....	− 0.24	S.	103	56	7.5	....	− 0.8
10	20	27.5	P.	II	15	52	21.09	....	− 0.21	.	106	12.7	....	....	....
21	4	14.0	S.	I	0	19	39.07	....	+ 0.23	S.	87	44	36.5	....	− 3.1
22	5	2.0	P.	I	1	11	42.08	....	+ 0.38	S.	83	33	46.1	....	− 3.8
26	8	40.0	P.	I	5	6	5.69	....	+ 0.45	S.	71	56	19.0	....	− 1.1
27	9	40.9	W.	I	6	11	1.73	....	+ 0.29	N.	71	38	22.9	....	+ 1.2
28	10	42.1	E.	I	7	16	21.80	....	+ 0.14	N.	72	43	13.0	....	0.0
29	11	42.1	S.	I	8	20	28.78	....	+ 0.23	S.	75	5	19.5	....	+ 1.8
Feb. 19	3	49.8	P.	I	1	49	42.13	....	+ 0.37	.	80	56.8	....	....	....
20	4	41.4	W.	I	2	45	19.43	....	+ 0.34	S.	77	21	57.7	....	− 2.9
22	6	31.5	S.	I	4	43	38.17	....	+ 0.49	S.	72	32	38.1	....	− 2.0
23	7	29.5	P.	I	5	45	46.24	....	+ 0.68	S.	71	45	3.7	....	− 0.5
25	9	26.9	W.	I	7	51	22.35	....	+ 0.36	N.	73	56	39.8	....	+ 0.1
28	12	12.1	W.	I	10	48	47.80	....	+ 0.20	N.	84	40	36.9	....	+ 1.1
Mar. 8	18	37.0	W.	II	17	46	20.43	....	− 0.17	S.	108	11	56.6	....	− 3.3
9	19	24.4	E.	II	18	37	44.03	....	− 0.05	.	107	54.4	....	....	....
10	20	11.6	S.	II	19	29	0.02	....	− 0.26	.	106	46.2	....	....	....
16	0	6.7	W.	II	23	44	30.15	....	− 0.23	.	90	49.4	....	....	....
23	6	22.4	P.	I	6	28	51.82	....	+ 0.64	N.	72	0	9.5	....	− 0.7
24	7	19.8	W.	I	7	30	18.59	....	+ 0.25	N.	73	17	16.1	....	+ 1.1
25	8	15.8	E.	I	8	30	25.31	....	+ 0.39	N.	75	40	23.7	....	+ 0.4
26	9	10.0	S.	I	9	28	41.72	....	+ 0.36	N.	78	57	18.4	....	− 0.1
Apr. 6	18	4.1	E.	II	19	7	42.01	....	− 0.11	N.	107	20	23.0	....	− 1.0
20	5	15.3	P.	I	7	11	59.59	....	+ 0.29	N.	72	43	9.6	....	+ 0.6
21	6	11.9	W.	.	8	12.7	.. ..	....	.. ..	N.	74	47	44.2	....	− 0.4
22	7	6.2	E.	I	9	11	4.26	....	+ 0.06	N.	77	48	38.9	....	+ 2.1
23	7	58.2	S.	I	10	7	7.41	....	+ 0.27	N.	81	30	28.9	....	+ 1.6
26	10	24.3	E.	I	12	45	27.74	....	+ 0.01	N.	94	8	13.1	....	+ 1.6
29	12	46.5	W.	II	15	19	54.64	....	− 0.12	N.	104	27	0.1	....	+ 0.6
May 8	19	47.7	E.	II	22	57	40.89	....	0.00	N.	94	44	10.2	....	+ 1.8
10	21	23.0	W.	II	0	41	9.76	....	− 0.16	N.	86	15	51.9	....	− 4.0
June 5	18	26.9	E.	II	23	27	3.13	....	− 0.20	N.	92	35	15.6	....	+ 0.3
8	20	52.8	W.	II	2	5	10.61	....	− 0.37	N.	80	4	31.9	....	− 0.5
16	3	48.1	W.	I	9	29	13.32	....	+ 0.17	N.	78	31	15.2	....	+ 3.7
19	6	20.6	P.	I	12	14	0.61	....	+ 0.16	N.	91	12	5.8	....	− 3.6
22	8	40.5	S.	I	14	46	8.05	....	+ 0.05	N.	102	28	41.0	....	− 0.5
23	9	27.3	P.	I	15	36	56.13	....	− 0.10	N.	105	8	47.8	....	− 0.7
July 7	20	28.8	E.	II	3	35	31.46	....	− 0.13	N.	75	1	48.0	....	+ 0.1
8	21	27.1	P.	II	4	37	54.63	....	0.00	.	72	44.0	....	....	....
9	22	28.3	W.	II	5	43	13.35	....	+ 0.12	.	71	38.6	....	....	....
15	3	23.8	E.	I	10	59	12.70	....	+ 0.17	.	84	48.6	....	....	....
16	4	14.8	S.	I	11	54	15.97	....	+ 0.13	N.	89	18	12.7	....	+ 4.1
18	5	51.3	W.	I	13	38	55.71	....	+ 0.14	N.	97	42	36.6	....	+ 3.6

MOON—Continued.

Date.		Mean Time of Transit of Center.		Observer.	Limb.	Apparent Right Ascension of Center.			Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.			Correction to Tables of—	
									Peirce.	Hansen.					Peirce.	Hansen.
1885.		h	m			h	m	s	s	s		°	′	″	″	″
July	20	7	25.1	S.	I	15	20	52.24	....	− 0.18	N.	104	10	42.5	....	+ 1.3
	22	8	59.4	W.	I	17	3	21.12	....	− 0.20	N.	107	47	56.6	....	+ 1.0
	23	9	46.9	E.	I	17	54	54.10	....	− 0.22	N.	108	22	5.2	....	+ 0.9
	24	10	34.3	S.	I	18	46	21.90	....	0.00	N.	108	4	34.5	....	+ 1.7
	25	11	21.3	P.	I	19	37	25.41	....	− 0.05	N.	106	56	36.4	....	+ 1.2
Aug.	4	19	14.0	E.	II	4	10	52.37	....	− 0.26	N.	73	45	53.0	....	+ 2.0
	5	20	11.9	W.	II	5	12	49.91	....	+ 0.10	N.	72	7	29.4	....	+ 1.7
	12	2	2.8	E.	I	11	28	24.63	....	+ 0.21	.	87	1.2	....	....	....
	16	5	20.2	E.	I	15	2	7.07	....	− 0.10	N.	102	59	10.5	....	+ 1.7
	18	6	55.5	P.	I	16	45	31.92	....	+ 0.01	N.	107	14	25.7	....	+ 0.1
	19	7	43.1	W.	I	17	37	10.69	....	− 0.24	N.	108	7	48.5	....	+ 0.8
	20	8	30.5	E.	I	18	28	41.42	....	− 0.06	N.	108	9	36.9	....	+ 0.2
Sept.	16	6	24.8	S.	I	18	9	3.48	....	+ 0.13	N.	108	10	55.7	....	+ 1.9
	17	7	12.1	W.	I	19	0	29.66	....	+ 0.01	.	107	41.5	....	....	....
	18	7	58.9	S.	I	19	51	20.20	....	+ 0.01	S.	106	22	40.3	....	− 1.4
	23*	11	47.2	P.	I, II	23	59	58.52	....	− 0.11	N.	90	25	51.1	....	− 1.2
	24	12	34.0	W.	II	0	50	48.48	....	− 0.16	S.	86	17	5.4	....	− 0.8
Oct.	17	7	24.0	P.	I	21	10	41.32	....	− 0.04	S.	102	49	56.3	....	− 1.7
	18	8	9.1	W.	I	21	59	50.99	....	− 0.11	S.	99	45	2.5	....	− 1.1
	22	11	14.4	W.	I	1	21	23.97	....	− 0.07	S.	83	51	55.7	....	− 1.6
	24	12	57.5	S.	II	3	12	38.06	....	− 0.26	S.	76	27	12.7	....	− 0.5
Nov.	3	22	1.8	E.	II	12	57	52.12	....	− 0.27	.	94	15.4	....	....	....
	12	4	31.9	E.	I	20	0	34.17	....	− 0.02	S.	106	18	28.1	....	+ 2.1
	14	6	2.4	P.	I	21	39	11.79	....	− 0.11	S.	101	18	41.4	....	− 1.6
	16	7	31.2	E.	I	23	16	9.85	....	− 0.09	S.	94	11	49.5	....	− 0.4
	17	8	16.5	S.	I	0	5	30.13	....	− 0.04	S.	90	8	11.6	....	− 2.1
	20	10	44.3	E.	I	2	45	31.61	....	+ 0.01	S.	78	0	46.0	....	− 1.4
	21	11	39.3	S.	I	3	44	40.86	....	+ 0.04	S.	74	50	20.0	....	0.0
Dec.	11	3	57.6	S.	I	21	20	29.85	....	+ 0.09	S.	102	43	36.3	....	+ 0.7
	12	4	41.6	P.	I	22	8	37.77	....	0.00	S.	99	36	50.7	....	+ 1.8
	15	6	53.8	S.	I	0	33	2.63	....	+ 0.02	S.	88	6	29.2	....	+ 1.1
	16	7	40.4	P.	I	1	23	41.82	....	+ 0.19	S.	83	59	39.3	....	− 3.9
	18	9	22.2	E.	I	3	13	39.05	....	+ 0.17	S.	76	30	10.0	....	− 2.2
	21	12	19.7	W.	II	0	23	26.22	....	+ 0.09	S.	71	29	16.1	....	− 1.7
	22	13	21.8	E.	II	7	29	36.88	....	+ 0.11	S.	72	28	5.5	....	− 1.2
	29	19	33.4	W.	II	14	9	55.02	....	− 0.20	S.	99	21	57.6	....	− 1.5
1886.																
Jan.	19†	12	1.6	E.	I, II	7	59	34.81	....	+ 0.18	S.	73	19	26.2	....	+ 0.1
	31	22	19.3	S.	II	19	6	16.69	....	− 0.13	.	108	0.7	....	....	....
Feb.	8	3	31.7	E.	I	0	47	9.62	....	+ 0.17	S.	87	23	38.2	....	− 5.1
	9	4	16.6	S.	I	1	36	10.13	....	+ 0.19	S.	83	28	38.4	....	− 4.9
	14	8	39.6	E.	I	6	19	35.43	....	+ 0.55	S.	71	37	29.7	....	+ 0.6
	15	9	40.0	W.	I	7	24	4.20	....	+ 0.48	S.	72	22	52.3	....	− 1.0
	16	10	40.8	E.	I	8	28	57.12	....	+ 0.33	N.	74	28	49.2	....	+ 1.7
	17	11	40.6	S.	I	9	32	52.26	....	+ 0.40	N.	77	46	1.1	....	− 0.2
	18	12	38.5	W.	II	10	34	53.95	....	+ 0.15	S.	81	56	13.4	....	+ 1.0
	27	20	15.9	W.	II	18	49	3.31	....	− 0.33	.	108	10.4	....	....	....
Mar.	11	4	30.4	W.	I	3	58	17.23	....	+ 0.46	S.	74	41	59.5	....	+ 0.2
	13	6	29.2	S.	I	5	55	20.06	....	+ 0.45	.	71	43.1	....	....	....
	14	7	26.7	W.	I	6	56	53.16	....	+ 0.44	N.	71	55	16.9	....	+ 1.2
	15	8	25.0	P.	I	7	59	19.80	....	+ 0.45	N.	73	22	34.2	....	+ 0.5
	16	9	23.3	E.	I	9	1	39.46	....	+ 0.47	N.	76	1	50.0	....	+ 0.8
	17	10	20.6	S.	I	10	3	3.89	....	+ 0.37	N.	79	41	51.8	....	+ 1.7
Apr.	9	4	24.8	E.	I	5	37	0.45	....	+ 0.42	.	71	47.9	....	....	....
	14	9	4.8	S.	I	10	37	27.14	....	+ 0.21	N.	82	3	55.1	....	+ 1.4
	15	9	58.2	P.	I	11	34	59.72	....	+ 0.41	N.	86	35	16.8	....	+ 1.0
	17	11	43.1	E.	I	13	28	0.98	....	+ 0.08	N.	95	53	26.7	....	− 0.7
May	17	12	8.0	P.	II	15	51	16.95	....	− 0.10	N.	105	10	39.3	....	0.0
	27	19	59.1	E.	II	0	23	5.62	....	− 0.20	N.	89	39	21.5	....	− 0.7

* Sidereal time of transit of semidiameter, 63.40 s.

† Sidereal time of transit of semidiameter, 73.28.

MOON—Continued.

Date.		Mean Time of Transit of Center.		Observer.	Limb.	Apparent Right Ascension of Center.			Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.			Correction to Tables of—	
									Peirce.	Hansen.					Peirce.	Hansen.
1886.		h	m			h	m	s	s	s		°	′	″	″	″
May	29	21	30.8	W.	II	2	2	52.41	....	− 0.41	.	81	33.6	....	....	....
June	5	3	4.1	S.	I	8	0	49.53	....	+ 0.23	.	72	54.9	....	....	....
	8	5	50.1	E.	I	10	59	3.20	....	+ 0.20	N.	83	16	40.3	....	+ 2.5
	10	7	31.6	W.	I	12	48	45.03	....	+ 0.11	N.	92	24	3.6	....	+ 0.3
	11	8	21.3	P.	I	13	42	32.82	....	+ 0.17	N.	96	47	36.8	....	− 1.1
	12	9	11.2	E.	I	14	36	26.22	....	− 0.05	N.	100	45	23.7	....	+ 0.4
	25	19	22.0	S.	II	1	40	15.36	....	− 0.24	N.	83	31	3.8	....	− 0.2
	28	21	53.2	S.	II	4	23	39.86	....	− 0.04	.	73	32.2	....	....	....
July	6	4	37.9	E.	I	11	37	1.64	....	+ 0.15	N.	86	6	29.9	....	+ 4.0
	9	7	9.0	W.	I	14	20	27.60	....	+ 0.14	N.	99	26	11.4	....	− 0.1
	10	7	58.7	E.	I	15	14	8.97	....	− 0.17	N.	102	58	35.2	....	− 1.2
	11	8	48.6	S.	I	16	8	7.55	....	− 0.02	.	105	46.0	....	....	....
	12	9	38.7	P.	I	17	2	22.45	....	− 0.01	N.	107	41	8.7	....	+ 1.0
	16	12	54.6	P.	II	20	34	30.47	....	− 0.16	N.	105	58	50.4	....	+ 0.6
	23	18	1.7	S.	II	2	10	3.05	....	− 0.31	N.	81	26	11.8	....	− 1.5
Aug.	2	2	27.8	W.	I	11	13	4.28	....	+ 0.19	.	84	1.1	....	....	....
	3	3	21.9	E.	I	12	11	13.95	....	+ 0.10	N.	88	49	21.2	....	+ 2.9
	4	4	4.2	E.	I	13	7	36.64	....	+ 0.07	N.	93	34	1.0	....	+ 0.6
	8	7	36.0	E.	I	16	45	47.78	....	− 0.17	N.	107	4	34.1	....	+ 1.9
	10	9	15.5	W.	I	18	33	22.69	....	+ 0.01	N.	108	41	33.6	....	+ 2.4
	11	10	4.1	E.	I	19	26	6.43	....	− 0.14	N.	108	5	32.5	....	− 0.1
	22	18	22.8	W.	II	4	29	34.69	....	− 0.15	N.	73	32	5.8	....	+ 1.3
Sept.	3	4	39.8	E.	I	15	31	34.81	....	− 0.12	N.	103	46	15.5	....	+ 2.6
	10	10	20.5	W.	I	21	40	47.01	....	− 0.15	S.	102	33	1.3	....	+ 0.7
Oct.	1	3	20.9	W.	I	16	2	51.47	....	− 0.01	.	105	25.6	....	....	....
	2	4	13.6	E.	I	16	59	39.68	....	− 0.11	N.	107	32	35.5	....	+ 0.6
	3	5	5.4	S.	I	17	55	30.79	....	− 0.03	N.	108	36	54.0	....	+ 1.6
	6	7	31.9	E.	I	20	34	15.22	....	− 0.08	S.	106	2	54.2	....	+ 0.1
	7	8	17.5	S.	I	21	23	54.76	....	− 0.03	S.	103	36	20.6	....	− 1.0
	8	9	1.8	P.	I	22	12	14.27	....	+ 0.05	S.	100	34	31.9	....	− 3.4
	9	9	45.1	W.	I	22	59	37.60	....	− 0.02	S.	97	5	21.2	....	− 3.3
	10	10	28.0	E.	I	23	46	34.60	....	0.00	S.	93	16	51.3	....	− 3.2
	11	11	11.0	S.	I	0	33	38.18	....	− 0.08	S.	89	17	37.6	....	− 1.9
	12*	11	54.6	P.	I, II	1	21	23.17	....	+ 0.01	S.	85	16	57.1	....	− 2.8
	20	18	45.8	P.	II	8	45	14.10	....	− 0.07	S.	74	19	23.0	....	− 1.2
	21	19	41.3	W.	II	9	44	49.77	....	− 0.06	.	77	32.2	....	....	....
	22	20	36.1	S.	II	10	43	43.56	....	− 0.14	S.	81	36	45.2	....	− 1.8
Nov.	4	6	57.5	S.	I	21	54	5.76	....	− 0.22	S.	101	58	51.6	....	− 0.7
	5	7	41.1	P.	I	22	41	46.43	....	− 0.06	S.	98	37	56.1	....	− 1.4
Dec.	3	6	19.0	P.	.	23	9.8	.....	....	....	S.	96	43	26.6	....	− 3.6
	8	10	0.7	W.	I	3	11	49.09	....	+ 0.14	S.	77	14	40.6	....	− 1.1
	9	10	51.3	E.	I	4	6	30.54	....	− 0.02	S.	74	13	37.7	....	+ 0.7
	10	11	44.8	S.	I	5	4	9.63	....	− 0.05	S.	72	1	54.7	....	− 1.3
	20	20	45.1	W.	II	14	45	20.85	....	+ 0.02	S.	100	55	16.2	....	− 1.5
1887.																
Jan.	2	6	21.0	E.	I	1	10	8.39	....	− 0.02	S.	86	43	23.6	....	− 5.1
	3	7	4.7	S.	I	1	57	50.12	....	+ 0.10	S.	82	45	56.5	....	− 3.3
	4	7	50.3	P.	I	2	47	33.25	....	+ 0.22	S.	79	2	7.3	....	− 4.3
	6	9	30.4	E.	I	4	35	46.39	....	+ 0.14	S.	73	4	49.0	....	− 1.3
	27	2	52.6	S.	I	23	19	43.88	....	− 0.06	.	96	19.2	....	....	....
	30	4	59.2	E.	I	1	38	29.51	....	+ 0.11	S.	84	29	39.3	....	− 4.0
	31	5	43.0	S.	I	2	26	20.07	....	+ 0.10	S.	80	43	0.5	....	− 3.2
Feb.	16	20	5.8	S.	II	17	54	33.21	....	− 0.64	S.	108	52	52.8	....	+ 0.7
	28	4	23.9	S.	I	2	57	26.22	....	+ 0.24	S.	78	30	19.4	....	− 3.4
Mar.	1	5	10.4	P.	I	3	47	58.65	....	+ 0.44	S.	75	25	15.1	....	− 3.3
	8	11	37.5	S.	I	10	43	43.84	....	+ 0.14	S.	80	51	13.5	....	− 1.2
	16	18	53.2	S.	II	18	32	8.98	....	− 0.44	S.	109	12	20.7	....	− 5.5
Apr.	2	7	27.5	P.	I	8	11	36.87	....	+ 0.52	N.	72	18	3.7	....	+ 2.3
	3	8	23.7	S.	I	9	11	56.69	....	+ 0.45	N.	74	51	55.9	....	− 3.7

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* Sidereal time of transit of semidiameter, 62.18s.

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of— Peirce.	Correction to Tables of— Hansen.	Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of— Peirce.	Correction to Tables of— Hansen.
1887.	h m			h m s	s	s		° ′ ″	″	″
Apr. 5	10 16.0	W.	I	11 12 23.27	....	+ 0.26	N.	83 2 23.8	....	− 1.9
6	11 11.6	P.	I	12 12 9.75	....	+ 0.15	N.	88 6 14.1	....	+ 3.3
26	2 42.3	P.	I	5 0 17.41	....	+ 0.28	.	71 59.8	....	....
30	6 16.0	P.	I	8 50 18.42	....	+ 0.40	N.	73 35 2.0	....	+ 3.6
May 2	8 4.4	E.	I	10 46 51.73	....	+ 0.12	N.	80 50 37.2	....	+ 1.6
3	8 58.1	S.	I	11 44 41.32	....	+ 0.33	N.	85 35 16.6	....	+ 0.7
14	18 43.3	E.	.	22 14.9	....	....	N.	101 37 14.7	....	+ 1.0
15	19 26.9	S.	II	23 2 29.33	....	− 0.30	.	98 2.2	....	....
June 16	20 55.8	S.	II	2 37 47.02	....	− 0.30	.	79 51.9	....	....
17	21 41.8	P.	II	3 27 55.33	....	− 0.43	.	76 23.2	....	....
27	5 41.4	P.	I	12 4 18.01	....	+ 0.32	N.	86 50 49.5	....	− 1.7
28	6 32.6	S.	I	12 59 37.81	....	+ 0.37	N.	91 48 6.7	....	+ 3.2
30	8 16.4	S.	I	14 51 34.73	....	+ 0.10	N.	101 3 3.7	....	+ 0.9
July 1	9 10.0	P.	I	15 49 13.52	....	+ 0.10	N.	104 49 47.8	....	+ 0.5
2	10 4.8	S.	I	16 48 4.23	....	+ 0.01	N.	107 38 18.1	....	− 0.2
3	14 0.2	P.	I	17 47 34.46	....	+ 0.09	N.	109 19 12.4	....	+ 1.7
12	18 6.7	S.	II	1 30 45.40	....	− 0.31	N.	85 31 44.8	....	− 1.0
29	7 59.3	P.	I	16 28 44.54	....	+ 0.06	N.	106 45 8.9	....	+ 1.5
Aug. 3	12 22.6	W.	II	21 12 25.00	....	− 0.06	N.	105 50 40.4	....	− 2.5
25	5 55.7	W.	I	16 11 15.90	....	+ 0.05	N.	105 54 56.5	....	+ 0.8
28	8 36.7	S.	I	19 4 29.15	....	− 0.21	S.	109 40 3.9	....	− 3.0
29	9 28.4	W.	I	20 0 16.06	....	+ 0.01	S.	108 40 45.7	....	+ 1.4
30	10 18.1	S.	I	20 54 6.93	....	− 0.09	S.	106 43 19.0	....	− 0.6
31	11 5.8	W.	I	21 45 48.62	....	+ 0.09	S.	103 57 59.3	....	− 0.7
Sept. 1	11 51.3	S.	I	22 35 22.61	....	− 0.18	S.	100 35 57.9	....	− 2.1
26	8 15.6	P.	I	20 37 44.62	....	+ 0.08	S.	107 30 36.7	....	− 1.4
30	11 16.0	P.	I	23 54 22.85	....	+ 0.07	S.	94 7 31.5	....	− 2.1
Oct. 12	20 53.9	P.	II	10 21 10.15	....	− 0.12	.	78 13.9	....	....
13	21 48.9	P.	II	11 20 12.72	....	− 0.15	.	82 51.6	....	....
21	4 24.8	E.	I	18 24 49.90	....	− 0.09	.	110 3.8	....	....
22	5 19.6	S.	I	19 23 40.10	....	− 0.08	S.	109 47 26.4	....	+ 0.3
23	6 11.7	P.	I	20 19 54.37	....	− 0.06	S.	108 23 58.3	....	+ 1.5
Nov. 1	12 48.4	S.	II	3 33 7.45	....	− 0.26	S.	75 53 32.5	....	− 2.7
3	14 23.3	W.	II	5 16 13.54	....	− 0.14	N.	71 1 48.9	....	− 1.2
4	15 13.6	E.	II	6 10 37.13	....	− 0.06	N.	69 54 46.6	....	+ 0.4
5	16 5.4	S.	II	7 6 27.14	....	− 0.11	S.	69 50 49.8	...	− 3.5
20	4 54.4	E.	I	20 52 46.88	....	− 0.16	S.	107 21 51.9	....	− 1.0
21	5 43.2	S.	I	21 45 41.42	....	+ 0.02	S.	104 30 51.2	....	− 0.6
22	6 29.2	P.	I	22 35 40.80	....	− 0.09	S.	101 3 11.5	....	− 3.2
28	10 45.2	S.	I	3 16 2.74	....	− 0.15	S.	77 1 58.5	....	− 1.6
29	11 31.3	S.	I	4 6 15.89	....	+ 0.08	S.	73 55 1.4	....	− 1.2
30	12 19.6	P.	II	4 58 40.96	....	+ 0.05	S.	71 31 1.8	....	− 2.3
Dec. 16	1 47.0	E.	I	19 27 19.64	....	+ 0.07	.	110 9.0	....	....
19	4 22.3	P.	I	22 14 53.39	....	+ 0.19	S.	102 49 11.1	....	− 2.7
21	5 51.1	S.	I	23 51 49.95	....	− 0.07	S.	94 55 42.2	....	− 1.6
22	6 33.1	W.	I	0 37 54.43	....	− 0.03	S.	90 41 26.2	....	− 2.5
29	11 55.1	W.	I	6 28 23.59	....	− 0.33	S.	69 34 3.0	....	− 2.6
1888.										
Jan. 19	5 9.7	W.	I	1 4 39.98	....	+ 0.02	S.	88 19 44.9	....	− 1.6
20	5 51.5	S.	I	1 50 32.63	....	+ 0.02	S.	84 8 40.1	....	− 3.4
21	6 34.0	P.	I	2 37 5.05	....	+ 0.23	S.	80 11 49.2	....	− 3.0
24	8 52.5	P.	I	5 7 48.09	....	+ 0.31	.	71 16.8	....	....
27	11 31.8	P.	I	7 59 24.18	....	+ 0.11	N.	70 28 41.5	....	+ 0.3
28*	12 27.0	W.	I.II	8 58 38.39	....	+ 0.04	S. N.	72 36 59.3	....	− 1.0
Feb. 18	5 11.5	P.	I	3 4 46.41	....	+ 0.16	S.	78 1 47.5	....	− 3.1
23	9 17.0	W.	I	7 30 36.17	....	+ 0.15	N.	69 51 16.9	....	+ 0.3
Mar. 6	20 12.8	W.	II	19 15 35.73	....	− 0.09	.	110 23.4	....	....
7	21 6.4	S.	II	20 13 11.92	....	− 0.26	.	109 11.4	....	....
15	2 24.5	E.	I	1 59 49.29	....	+ 0.08	.	83 10.4	....	....

* Sidereal time of transit of semidiameter $69^{s}.40$; observed semidiameter $15' \, 54''.0$.

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of— Peirce.	Correction to Tables of— Hansen.	Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of— Peirce.	Correction to Tables of— Hansen.
1888.	h m			h m s	s	s		° ′ ″	″	″
Mar. 18	4 36.2	W.	I	4 23 44.92	....	+ 0.25	S.	72 56 36.3	....	— 2.5
19	5 23.6	E.	I	5 15 10.99	....	+ 0.13	S.	70 49 5.2	....	- 1.9
June 18	7 35.0	E.	I	13 25 40.31	....	+ 0.32	N.	93 28 57.7	....	+ 4.7
Aug. 14	6 4.5	W.	I	15 39 39.61	....	+ 0.22	N.	104 41 27.1	....	+ 3.0
16	7 57.4	W.	I	17 40 48.87	....	+ 0.10	N.	110 22 38.6	....	+ 0.2
Sept. 12	5 52.7	S.	I	17 22 13.22	....	— 0.09	N.	109 59 41.8	....	+ 4.2
13	6 50.4	P.	I	18 24 0.30	....	— 0.13	S.	111 16 41.2	....	— 1.9
14	7 47.6	W.	I	19 25 19.80	....	— 0.15	S.	111 9 30.6	....	+ 1.8
Oct. 10	4 44.7	S.	I	18 4 21.51	....	+ 0.13	.	111 15.7	....	....
17	10 40.7	W.	I	0 28 59.78	....	— 0.33	S.	91 58 7.8	....	+ 1.2
30	20 54.2	E.	II	11 35 22.54	....	— 0.01	.	82 44.6	....	....
Nov. 6	2 31.5	W.	I	17 37 18.70	....	+ 0.14	.	110 53.4	....	....
11	7 10.3	E.	I	22 36 35.41	...	— 0.46	S.	102 28 25.3	....	— 2.1
12	7 56.3	W.	I	23 26 35.94	....	— 0.33	S.	98 9 31.7	....	— 0.9
Dec. 5	2 16.2	E.	I	19 16 14.79	....	+ 0.32	.	111 55.4	....	....
6	3 16.6	E.	I	20 20 45.07	....	— 0.03	.	110 32.5	....	....
7	4 13.0	W.	I	21 21 17.40	....	+ 0.10	S.	107 50 14.1	....	+ 0.6
13	8 45.8	W.	I	2 18 31.62	....	— 0.11	S.	81 30 49.9	....	— 0.2
14	9 28.6	E.	I	3 5 21.75	....	— 0.21	S.	77 27 20.3	....	— 1.2
15	10 12.7	W.	I	3 53 30.94	....	— 0.06	S.	73 55 19.5	....	— 0.4
28	20 50.7	W.	II	15 24 32.40	....	— 0.13	.	103 59.6	....	....
1889.										
Jan. 3	1 56.4	E.	I	20 50 45.76	....	+ 0.04	.	109 26.4	....	....
7	5 17.3	W.	I	0 27 57.17	....	— 0.09	S.	92 31 35.3	....	— 0.7
8	6 0.6	E.	I	1 15 18.38	....	— 0.14	S.	87 44 23.9	....	— 1.3
9	6 43.1	S.	I	2 1 52.35	....	— 0.17	S.	83 9 17.4	....	1.1
10	7 25.7	W.	I	2 48 34.54	....	— 0.17	S.	78 55 0.0	....	— 0.5
11	8 9.3	E.	.	3 36.2	....	....	S.	75 9 53.8	....	— 1.0
12	8 54.3	W.	I	4 25 18.87	....	— 0.02	S.	72 2 46.1	....	+ 1.3
13	9 41.2	S.	I	5 16 14.18	....	+ 0.24	S.	69 42 40.5	....	+ 2.1
Feb. 2	2 20.8	S.	I	23 13 29.27	....	— 0.21	.	99 38.1	....	....
6	5 20.4	W.	I	2 29 24.52	....	— 0.03	S.	80 31 46.4	....	— 2.1
7	6 4.0	S.	I	3 17 3.41	....	0.00	S.	76 31 25.5	....	+ 0.4
10	8 22.5	E.	I	5 47 46.41	....	+ 0.09	S.	68 41 33.8	....	+ 1.6
12	10 2.3	W.	I	7 35 41.38	....	— 0.17	N.	68 15 46.9	....	+ 1.4
Mar. 6	3 57.2	E.	I	2 56 20.64	....	— 0.03	S.	77 59 52.5	....	— 1.2
8	5 27.5	W.	I	4 34 47.56	....	+ 0.15	.	71 16.5	....	....
11	7 52.8	W.	I	7 12 15.38	....	+ 0.04	N.	67 49 8.7	....	+ 1.0
12	8 43.1	S.	I	8 6 39.45	....	+ 0.19	N.	68 49 25.0	....	+ 1.7
13	9 33.6	E.	I	9 1 11.68	....	+ 0.02	N.	70 57 21.8	....	+ 2.2
26	21 10.5	E.	II	21 31 18.77	....	— 0.29	.	107 28.4	....	....
Apr. 7	5 44.3	W.	I	6 49 55.66	....	+ 0.32	.	67 28.4	....	....
8	6 33.9	E.	I	7 43 31.36	....	+ 0.14	N.	68 0 25.3	....	+ 2.6
10	8 13.0	S.	I	9 30 50.42	....	+ 0.12	N.	72 22 9.6	....	+ 2.1
22	19 7.5	W.	II	21 14 25.25	....	— 0.24	N.	108 41 6.8	....	+ 3.0
23	19 59.7	E.	II	22 10 41.74	....	— 0.17	.	105 2.4	....	....
May 4	3 38.2	W.	I	6 29 55.84	....	+ 0.28	.	67 19.8	....	....
5	4 27.3	E.	I	7 23 4.91	....	+ 0.11	.	67 25.7	....	....
6	5 16.4	S.	I	8 16 14.97	....	+ 0.21	N.	68 37 25.9	....	+ 3.2
7	6 5.1	W.	I	9 9 1.65	....	+ 0.34	N.	70 52 57.9	....	+ 3.4
8	6 53.3	E.	I	10 1 15.24	....	+ 0.23	N.	74 7 53.5	....	+ 3.8
9	7 41.0	S.	I	10 53 5.13	....	+ 0.26	N.	78 15 33.1	....	+ 3.3
11	9 17.4	S.	I	12 37 36.41	....	+ 0.33	N.	88 30 37.0	....	— 1.6
15	12 55.7	S.	II	16 32 16.52	....	+ 0.11	S.	109 1 56.7	....	— 1.9
June 2	3 12.2	E.	I	7 58 7.87	....	+ 0.23	.	67 56.6	....	....
6	6 21.6	S.	I	11 23 48.86	....	+ 0.32	N.	80 53 23.8	....	+ 3.2
8	7 55.9	S.	I	13 6 15.49	....	+ 0.32	N.	91 22 53.7	....	+ 2.2
10	9 38.8	S.	I	14 57 22.51	....	+ 0.34	N.	102 17 6.3	....	+ 2.6
July 5	5 50.0	S.	I	12 46 30.79	....	+ 0.30	N.	89 14 51.9	....	+ 2.6

MOON—Continued.

Date.	Mean Time of Transit of Center.	Observer.	Limb.	Apparent Right Ascension of Center.	Correction to Tables of— Peirce.	Correction to Tables of— Hansen.	Limb.	Geocentric N. P. Distance of Center.	Correction to Tables of— Peirce.	Correction to Tables of— Hansen.
1889.	h m			h m s	s	s		° ′ ″	″	″
July 6	6 37.2	E.	I	13 37 48.79	....	+ 0.17	N.	94 37 38.4	....	+ 3.5
7	7 27.0	E.	I	14 31 36.42	....	+ 0.11	N.	99 56 4.5	....	+ 2.3
9	9 17.7	E.	I	16 30 31.18	....	+ 0.17	N.	108 55 5.4	....	+ 1.2
10	10 19.2	S.	I	17 36 9.97	....	+ 0.41	N.	111 43 44.2	....	+ 0.3
12	12 27.8	S.	II	19 52 58.49	....	+ 0.07	N.	112 12 39.7	....	+ 1.4
Aug. 8	10 8.0	H.	I	19 19 16.47	....	+ 0.21	S.	112 47 35.6	....	— 0.9
Oct. 2	6 49.3	S.	I	19 36 50.58	....	+ 0.12	S.	112 53 37.7	....	— 0.6
3	7 48.0	E.	I	20 39 38.16	....	+ 0.06	S.	110 58 17.6	....	— 0.7
4	8 44.2	S.	I	21 39 53.29	....	— 0.01	S.	107 41 13.6	....	— 1.2
Nov. 3	9 11.3	H.	I	0 5 21.04	....	— 0.12	.	94 57.9	....	...
4	9 57.1	E.	I	0 55 13.73	....	— 0.32	S.	89 33 59.9	....	0.0
5	10 42.1	S.	I	1 44 21.35	....	— 0.31	S.	84 16 20.7	....	+ 1.1
6	11 27.3	H.	I	2 33 32.79	....	— 0.15	S.	79 19 0.3	....	— 4.2
Dec. 1	7 55.9	E.	I	0 40 9.14	....	— 0.09	S.	91 21 17.3	....	— 3.4
2	8 40.4	H.	I	1 28 44.83	....	— 0.09	S.	86 2 35.8	....	— 2.4
4	10 9.5	H.	I	3 5 56.87	....	— 0.13	S.	76 25 6.1	....	— 0.1
27	5 6.2	S.	I	23 32 29.56	....	+ 0.03	S.	98 36 17.5	....	— 0.1
28	5 53.8	H.	I	0 24 9.92	....	— 0.14	S.	93 9 28.6	....	— 1.1
1890.										
Mar. 26	4 59.5	E.	I	5 16 40.42	....	+ 0.02	.	67 34.9	....	...
28	6 39.2	S.	I	7 4 32.47	....	+ 0.07	N.	65 51 59.4	....	+ 0.7
29	7 28.4	E.	I	7 57 53.07	....	+ 0.12	N.	66 46 11.8	....	— 1.0
30	8 16.6	S.	I	8 50 8.82	....	+ 0.16	N.	68 46 46.8	...	+ 1.4
Apr. 1	9 49.0	E.	I	10 30 41.76	....	0.00	N.	75 39 47.4	....	+ 0.8
2	10 33.6	S.	I	11 19 21.56	....	+ 0.16	N.	80 14 45.5	...	— 0.1
5	12 48.1	S.	II	13 45 58.26	....	— 0.07	N.	96 18 28.0	....	— 3.5
21	1 59.9	H.	I	3 59 8.77	....	— 0.12	.	71 32.3	....	....
27	6 56.8	H.	I	9 20 28.50	....	+ 0.01	N.	70 13 25.1	....	+ 1.1
28	7 42.5	S.	I	10 10 16.22	....	+ 0.21	N.	73 45 20.1	....	+ 0.8
29	8 27.0	E.	I	10 58 51.47	....	+ 0.28	N.	78 3 15.3	....	+ 1.2
May 2	10 40.2	S.	I	13 24 14.52	....	+ 0.11	N.	93 53 26.7	....	+ 1.0
28	7 47.4	H.	I	12 13 29.01	....	+ 0.12	N.	85 46 11.4	....	— 0.2
29	8 31.3	S.	I	13 1 22.74	....	+ 0.23	N.	91 12 34.8	....	+ 0.8
31	10 5.4	E.	I	14 43 40.63	....	+ 0.21	N.	102 11 15.1	....	+ 1.7
June 1	10 57.9	S.	I	15 40 13.07	....	+ 0.16	N.	107 6 14.4	....	— 1.7
3	12 55.8	S.	II	17 46 21.08	....	+ 0.06	S.	113 41 45.3	....	— 0.9
20	2 45.2	S.	I	8 41 4.28	....	+ 0.10	.	67 56.8	....	....
24	5 42.2	S.	I	11 54 18.72	....	+ 0.29	N.	83 27 53.5	....	+ 3.8
25	6 24.6	E.	I	12 40 47.67	....	+ 0.29	N.	88 50 59.9	....	+ 2.3
27	7 54.0	E.	I	14 18 22.11	....	+ 0.15	N.	99 39 41.9	....	— 0.3
28	8 43.4	S.	I	15 11 52.19	....	+ 0.32	N.	104 46 22.2	....	+ 0.3
30	10 36.4	E.	I	17 12 58.43	....	+ 0.22	N.	112 34 38.5	....	+ 0.8
July 10	19 46.2	E.	II	3 3 43.65	....	— 0.53	N.	75 55 9.5	....	+ 0.6
21	3 39.8	E.	I	11 38 1.18	....	+ 0.17	N.	81 58 45.4	....	+ 2.7
22	4 21.4	S.	I	12 23 45.89	....	+ 0.25	N.	87 1 58.3	...	+ 3.6
27	8 18.7	E.	I	16 41 24.54	....	+ 0.16	N.	111 11 6.3	....	— 0.7
29	10 22.3	S.	I	18 53 10.95	....	— 0.17	S.	114 34 22.0	....	— 2.0
30	11 27.3	H.	I	20 2 19.45	....	— 0.17	S.	113 28 53.0	....	— 1.5
Aug. 8	19 19.1	H.	..	4 30.9	....	....	N.	69 19 32.9	....	+ 2.1
10	20 58.7	H.	II	6 18 41.05	....	— 0.70	S.	65 34 33.3	....	+ 1.3
22	5 16.7	H.	I	15 21 23.84	....	+ 0.13	N.	105 55 35.1	....	+ 1.4
23	6 8.1	E.	I	16 16 53.15	....	+ 0.18	N.	109 58 59.4	....	+ 0.8
Sept. 17	2 27.9	H.	I	14 14 38.98	....	+ 0.09	.	99 51.1	....	....
18	3 14.2	H.	I	15 5 0.08	....	+ 0.07	.	104 45.6	....	....
19	4 3.8	S.	I	15 58 37.86	....	+ 0.11	N.	109 2 34.6	....	+ 1.5
24	8 55.5	H.	I	21 10 53.82	....	— 0.04	S.	110 38 0.7	....	— 0.6
Oct. 17	2 53.3	E.	I	16 38 22.00	....	+ 0.15	.	111 42.4	....	....
18	3 49.5	S.	I	17 38 38.79	....	+ 0.27	N.	114 12 11.6	....	+ 3.2
Nov. 18	5 40.0	E.	I	21 31 42.29	....	— 0.13	S.	109 39 10.0	....	— 1.4

MOON—Continued.

Date.	Mean Time of Transit of Center.		Observer.	Limb.	Apparent Right Ascension of Center.			Correction to Tables of—		Limb.	Geocentric N. P. Distance of Center.			Correction to Tables of—	
								Peirce.	Hansen.					Peirce.	Hansen.
1890.	h	m			h	m	s	s	s		°	′	″	″	″
Nov. 19	6	34.2	H.	I	22	30	0.28	....	− 0.35	S.	104	58	42.7	....	− 1.1
21	8	14.6	S.	I	0	18	32.78	....	− 0.06	S.	93	26	31.4	....	− 1.0
22	9	2.6	H.	I	1	10	39.86	....	− 0.16	S.	87	17	44.7	....	− 3.7
23	9	50.7	E.	I	2	2	47.20	....	− 0.11	S.	81	20	49.8	....	− 1.6
Dec. 15	3	33.7	S.	I	21	11	31.15	....	− 0.07	.	110	58.2	....	....	....
18	6	12.8	S.	I	0	2	49.72	....	− 0.06	S.	95	16	38.7	....	+ 0.3
19	7	0.6	H.	I	0	54	40.79	....	− 0.32	S.	89	11	17.9	....	− 0.2
22	9	23.8	H.	I	3	30	11.48	....	− 0.20	S.	72	52	49.4	....	+ 1.9
23	10	14.3	E.	I	4	24	42.89		− 0.14	S.	68	59	31.3	....	− 0.3
24	11	6.3	S.	I	5	20	50.24	....	+ 0.04	S.	66	16	11.1	....	− 1.7
1891.															
Jan. 14	4	7.8	E.	I	23	43	59.61	....	− 0.02	S.	97	17	8.5	....	+ 0.1
16	5	45.6	S.	I	1	29	55.06	....	+ 0.02	S.	84	54	52.3	....	+ 0.4
18	7	21.4	E.	I	3	13	52.22	....	− 0.10	S.	74	8	57.9	....	− 0.6
19	8	10.8	S.	I	4	7	23.19	....	+ 0.03	S.	70	0	2.1	....	− 0.8
20	9	1.7	H.	I	5	2	21.35	....	− 0.04	.	66	56.9	....	....	....
23	11	37.2	H.	I	7	50	6.84	....	− 0.26	N.	65	31	46.7	....	− 2.4
Feb. 4	20	49.9	H.	II	17	51	33.74	....	− 0.39	.	114	47.9	....	....	....
11	2	47.5	S.	I	0	13	51.56	....	+ 0.09	.	93	39.4	....	....	....
14	5	17.1	S.	I	2	55	41.79	....	+ 0.02	S.	75	32	47.2	....	+ 1.0
Mar. 4	19	34.9	E.	II	18	26	48.34	....	+ 0.51	N.	115	33	42.3	....	− 0.7
15	4	50.7	H.	I	4	23	33.85	....	− 0.10	S.	68	27	32.9	....	+ 1.7
16	5	43.9	S.	I	5	20	50.31	....	+ 0.02	S.	65	44	1.7	....	+ 2.1
17	6	37.1	E.	I	6	18	9.24	....	+ 0.02	N.	64	24	46.9	....	− 2.4
25	12	40.5	H.	II	12	54	4.16	....	− 0.13	N.	91	20	35.9	....	+ 0.4
Apr. 3	20	23.5	H.	II	21	13	48.16	....	− 0.32	N.	111	0	35.4	....	− 0.9
13	4	27.1	S.	I	5	54	13.80	....	+ 0.07	S.	64	33	59.0	....	+ 2.8
17	7	50.7	H.	I	9	34	6.96	....	− 0.06	N.	70	18	34.5	....	− 1.2
19	9	17.2	E.	I	11	8	45.03	....	+ 0.03	N.	78	56	48.8	....	+ 1.2
20	9	58.1	S.	I	11	53	43.09	....	+ 0.02	N.	84	1	47.5	....	0.0
21	10	38.6	H.	I	12	38	16.65	....	− 0.06	N.	89	23	22.6	....	− 0.8
May 17	7	54.7	E.	I	11	36	24.01	....	0.00	N.	81	55	30.9	....	− 1.4
18	8	35.1	S.	I	12	20	52.25	...	+ 0.15	N.	87	11	51.9	....	− 0.8
June 10	3	36.3	H.	I	8	51	57.51	....	− 0.10	.	67	29.1	....	....	....
13	5	50.2	H.	I	11	18	3.34	....	+ 0.02	N.	79	52	49.2	....	− 2.3
14	6	30.7	E.	I	12	2	37.77	....	+ 0.16	N.	85	1	24.8	....	− 2.5
15	7	10.8	S.	I	12	46	47.09	....	+ 0.23	N.	90	23	5.7	....	− 2.1
17	8	34.3	S.	I	14	18	20.28	....	+ 0.23	N.	101	6	50.7	....	− 4.7

OBSERVATIONS OF MERCURY.

1866–1891.

MERCURY.

Date.		Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1866.				h	m	s	s	s	s		°	′	″	″	″	″
Jan.	30	N.	C.	19	38	42.07	+ 0.26	....	....	C.	112	31	9.2	− 0.5	....	....
Feb.	1	H.	C.	19	51	27.59	+ 0.42	....	....	C.	112	12	3.7	− 0.2	....	....
	5	H.	C.	20	17	25.00	+ 0.28	....	....	C.	111	17	58.5	− 1.1	....	....
	19	R.	C.	21	51	18.95	+ 0.14	....	....	C.	105	14	59.7	− 3.2	....	....
	20	T.	C.	21	58	9.46	+ 0.11	....	....	C.	104	38	31.7	− 3.8	....	....
Mar.	8	N.	C.	23	42	29.12	+ 0.09	....	....	C.	92	55	20.3	− 0.6	....	....
	10	T.	C.	23	56	23.10	+ 0.08	....	....	.	91	4.5	....	....	....	....
	26	N.	I	1	27	15.17	− 0.06	....	....	S.	78	10	4.1	− 0.4	....	....
	30	N.	I	1	37	50.84	− 0.02	....	....	S.	76	34	45.4	+ 0.2	....	....
May	18	T.	II	2	10	47.31	− 0.04	....	....	C.	80	4	21.2	− 0.4	....	....
	20	N.	II	2	21	2.37	− 0.09	....	....	N.	79	2	14.2	− 1.3	....	....
	23	N.	.	2	37	41.95	+ 0.06	0.17	− 0.05	.	77	22	25.9	0.0	3.2	− 0.1
	24	H.	C.	2	43	36.06	0.00	....	....	C.	76	47	42.1	− 0.2	....	....
	29	T.	C.	3	15	53.76	− 0.06	....	....	C.	73	47	17.5	+ 1.0	....	....
	30	N.	.	3	22	56.46	+ 0.09	0.15	− 0.05	C.	73	10	36.0	+ 1.2	....	....
June	3	N.	.	3	53	9.90	− 0.13	0.19	0.00	.	70	46	8.3	+ 1.3	3.0	+ 0.3
	6	N.	.	4	18	0.82	− 0.15	0.18	− 0.01	.	69	4	50.4	+ 1.8	4.4	+ 1.8
	7	R.	C.	4	26	41.61	− 0.23	....	....	C.	68	33	22.9	− 0.3	....	....
	25	N.	.	7	5	47.95	+ 0.02	0.18	− 0.01	.	65	31	50.7	− 0.1	3.1	+ 0.5
	30	N.	I	7	47	37.96	+ 0.06	....	....	.	66	56	4.7	− 1.7	3.0	+ 0.3
July	2	N.	I	8	3	0.74	− 0.06	....	....	C.	67	42	6.3	+ 0.3	....	....
	5	N.	I	8	24	36.09	− 0.02	....	....	.	69	1.2	....	....	....	....
	7	H.	C.	8	38	0.74	− 0.11	....	....	C.	69	59	11.3	+ 0.9	....	....
	9	N.	I	8	50	39.45	+ 0.13	....	....	C.	71	0	24.2	+ 1.5	....	....
	11	T.	I	9	2	32.24	− 0.10	....	....	.	72	3	58.2	− 2.1	2.4	− 0.8
	12	R.	I	9	8	11.91	− 0.06	....	....	C.	72	36	30.6	+ 1.5	....	....
	13	H.	I	9	13	40.43	− 0.04	....	....	C.	73	9	16.5	− 1.1	....	....
	14	T.	C.	9	18	57.65	− 0.18	....	....	C.	73	42	20.4	+ 0.9	....	....
	16	N.	I	9	28	59.28	+ 0.06	....	....	.	74	48	46.7	+ 0.1	3.2	− 0.2
	18	T.	I	9	38	15.95	− 0.03	....	....	.	75	55	8.8	− 0.4	4.8	− 1.3
	27	H.	I	10	10	19.91	− 0.01	....	....	C.	80	34	25.2	+ 0.3	....	....
	31	T.	I	10	18	52.39	− 0.10	....	....	.	82	15	48.7	− 1.4	4.1	− 0.3
Aug.	3	T.	I	10	22	33.93	− 0.17	....	....	.	83	16	16.7	− 3.1	4.0	− 0.6
	10	H.	I	10	20	47.72	− 0.14	....	....	C.	84	22	41.6	− 0.5	....	....
Sept.	12	R.	C.	10	29	20.70	− 0.07	....	....	C.	78	58	51.4	+ 0.6	....	....
	14	R.	II	10	42	9.70	− 0.10	....	....	S.	80	1	20.1	+ 0.5	....	....
Oct.	18	R.	I	14	12	27.76	+ 0.26	....	....	C.	103	50	27.8	+ 2.3	....	....
	23	R.	I	14	42	5.73	+ 0.05	....	....	C.	106	49	49.7	+ 2.4	....	....
	27	N.	C.	15	5	46.99	+ 0.13	....	....	C.	108	58	6.8	+ 0.7	....	....
Nov.	1	R.	I	15	35	21.83	+ 0.15	....	....	C.	111	17	12.9	+ 2.4	....	....
	2	H.	C.	15	41	15.78	+ 0.20	....	....	C.	111	41	55.3	+ 1.0	....	....
	6	R.	I	16	4	40.96	+ 0.13	....	....	C.	113	9	40.3	+ 2.3	....	....
	7	T.	I	16	10	27.94	+ 0.01	....	....	.	113	28	38.3	+ 0.8	3.6	+ 0.8
	8	R.	I	16	16	12.48	+ 0.03	....	....	C.	113	46	24.7	+ 1.9	....	....
	10	T.	C.	16	27	31.43	− 0.08	....	....	C.	114	18	5.2	+ 1.8	....	....
	12	N.	.	16	38	32.76	+ 0.29	0.16	− 0.06	C.	114	44	27.2	+ 2.2	....	....
	13	R.	I	16	43	54.04	+ 0.08	....	....	C.	114	55	33.4	+ 2.1	....	....
	21	T.	C.	17	20	9.60	− 0.12	....	....	C.	115	30	27.9	+ 1.6	....	....
	26	T.	C.	17	31	20.78	+ 0.04	....	....	C.	114	58	46.4	+ 1.5	....	....
Dec.	18	R.	II	16	25	19.44	+ 0.48	....	....	S.	108	49	24.9	− 2.0	....	....
	19	T.	II	16	26	49.22	+ 0.37	....	....	C.	108	57	20.2	− 0.5	....	....
	26	T.	II	16	49	13.29	+ 0.50	....	....	C.	110	30	58.4	+ 0.1	....	....
1867.																
Jan.	11	T.	II	18	18	15.03	+ 0.31	....	....	C.	113	39	28.8	− 0.3	....	....
	16	N.	C.	18	50	35.73	+ 0.49	....	....	C.	113	47	40.9	− 1.4	....	....
	17	T.	II	18	57	11.92	+ 0.38	....	....	C.	113	45	34.7	− 1.3	....	....
	18	T.	II	19	3	50.50	+ 0.37	....	....	C.	113	42	9.2	− 2.5	....	....
	22	T.	II	19	30	44.56	+ 0.32	....	....	C.	113	15	11.2	− 1.0	....	....
	23	N.	II	19	37	32.27	+ 0.25	....	....	O.	113	5	0.3	− 1.6	....	....

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semidiameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semidiameter.	Correction to Am. Eph.
1867.			h m s	s	s	s		° ′ ″	″	″	″
Jan. 27	N.	I	20 4 56.80	+ 0.33	....	....	C.	112 10 14.1	− 0.4	....	....
29	T.	II	20 18 45.45	+ 0.18	....	....	C.	111 34 13.3	− 0.6	....	....
Feb. 27	T.	I	23 31 45.67	− 0.12	....	....	C.	93 20 25.2	+ 1.6	....	....
Mar. 11	N.	I	0 28 24.47	+ 0.03	....	....	S.	84 22 23.6	+ 1.5	....	....
Apr. 18	N.	C.	0 12 27.28	+ 0.19	....	....	C.	91 0 43.9	− 4.4	....	....
25	H.	.	0 37.5	....	....	....	C.	89 0 8.3	− 1.1	....	....
May 1	H.	C.	1 4 53.37	− 0.01	....	....	C.	86 15 0.6	− 2.5	....	....
8	N.	C.	1 42 52.60	+ 0.18	....	....	C.	82 8 9.5	− 1.5	....	....
17	T.	.	2 42.0	....	....	....	N.	75 55 41.2	− 1.7	....	....
June 11	T.	I	6 13 46.55	− 0.25	....	....	N.	64 41 2.5	− 0.6	....	....
28	H.	I	8 15 17.10	− 0.09	....	....	C.	69 3 24.4	− 1.1	....	....
July 1	N.	I	8 30 20.34	− 0.21	....	....	C.	70 21 39.5	− 0.4	....	....
2	H.	I	8 34 54.85	− 0.14	....	....	C.	70 48 21.9	+ 0.2	....	....
3	T.	I	8 39 15.71	− 0.15	....	....	C.	71 15 12.5	+ 0.4	....	....
9	H.	I	9 0 24.17	− 0.08	....	....	C.	73 53 37.3	− 0.3	....	....
11	N.	I	9 5 27.18	− 0.02	....	....	N.	74 42 57.8	− 0.2	....	....
17	T.	I	9 13 56.66	− 0.32	....	....	C.	76 48 9.8	− 1.0	....	....
18	N.	I	9 14 19.56	− 0.24	....	....	N.	77 4 26.7	− 1.7	....	....
Aug. 30	T.	II	9 47 59.69	− 0.16	....	....	S.	75 15 29.5	− 1.8	....	....
Sept. 2	H.	C.	10 9 51.22	− 0.04	....	....	C.	76 54 22.7	− 2.0	....	....
3	T.	II	10 17 13.06	− 0.10	....	....	S.	77 31 35.1	+ 0.1	....	....
Oct. 17	H.	I	14 43 58.18	+ 0.18	....	....	C.	107 50 1.5	− 0.8	....	....
18	A.	.	14 49.4	....	....	....	C.	108 20 19.1	+ 0.6	....	....
23	H.	I	15 15 50.56	+ 0.06	....	....	C.	110 36 30.6	+ 3.5	....	....
30	H.	I	15 49 54.18	0.00	....	....	C.	112 57 27.6	+ 0.9	....	....
Nov. 1	A.	.	15 58.4	....	....	....	C.	113 25 3.8	+ 2.0	....	....
5	A.	C.	16 12 41.37	+ 0.11	....	....	C.	113 59 41.6	+ 0.9	....	....
8	A.	I	16 19 47.62	+ 0.06	....	....	N.	114 4 35.3	+ 2.2	....	....
11	H.	C.	16 22 29.07	+ 0.29	....	....	C.	113 47 18.7	+ 0.2	....	....
15	A.	C.	16 17 8.50	+ 0.53	....	....	C.	112 42 16.8	+ 1.3	....	....
Dec. 6	T.	II	15 30 49.43	+ 0.31	....	....	S.	106 28 45.9	+ 3.7	....	....
8	H.	II	15 38 4.54	+ 0.41	....	....	C.	107 4 34.2	+ 3.0	....	....
22	H.	C.	16 51 52.67	+ 0.20	....	....	C.	111 55 41.7	+ 0.6	....	....
1868.											
Feb. 11	A.	C.	22 33 23.99	+ 0.08	....	....	C.	99 57 42.0	− 1.7	....	....
12	Ha.	I	22 39 32.64	+ 0.09	....	....	C.	99 10 7.3	− 1.0	....	....
18	A.	I	23 11 35.79	+ 0.92	....	....	S.	94 30 37.0	− 0.6	....	....
19	Ha.	I	23 15 48.81	− 0.15	....	....	C.	93 48 3.3	+ 0.9	....	....
22	N.	I	23 25 56.00	+ 0.18	....	....	S.	91 54 37.2	+ 2.2	....	....
Apr. 3	N.	C.	23 16 34.16	0.00	....	....	C.	96 38 21.3	− 0.9	....	....
5	N.	C.	23 24 28.55	+ 0.22	....	....	.	96 3.4	....	....	....
7	N.	I	23 32 56.56	+ 0.16	....	....	C.	95 21 58.9	− 2.0	....	....
17	N.	C.	0 22 15.31	+ 0.08	....	....	C.	90 29 55.7	+ 0.3	....	....
26	N.	C.	1 15 28.76	+ 0.23	....	....	C.	84 28 32.0	− 2.8	....	....
30	N.	C. & II	1 42 4.70	0.00	....	....	C.	81 25 57.0	− 0.7	....	....
June 1	N.	I	6 0 56.88	− 0.09	....	....	C.	64 24 25.8	− 0.2	....	....
5	E.	C.	6 29 48.11	− 0.07	....	....	C.	64 38 50.8	− 4.3	....	....
6	T.	I	6 36 27.70	− 0.09	....	....	C.	64 47 2.2	− 0.6	....	....
12	E.	I	7 11 29.33	− 0.15	....	....	C.	66 4 42.1	− 1.8	....	....
15	N.	.	7 25 39.77	+ 0.02	....	....	C.	66 57 9.2	0.0	....	....
19	E.	I	7 40 51.05	− 0.07	....	....	C.	68 14 37.7	− 0.8	....	....
20	T.	.	7 43 57.31	− 0.08	....	....	C.	68 34 40.5	− 0.1	....	....
Aug. 14	T.	II	8 51 31.56	− 0.22	....	....	C.	71 15 35.9	− 1.6	....	....
Sept. 8	Ha.	C.	11 46 59.17	− 0.11	....	....	C.	87 32 15.6	− 3.0	....	....
19	F.	C.	12 51 9.97	+ 0.19	....	....	C.	95 48 45.2	− 0.9	....	....
28	F.	C.	13 38 58.01	+ 0.21	....	....	C.	101 48 51.1	+ 2.8	....	....
Oct. 1	T.	C.	13 54 5.28	+ 0.15	....	....	C.	103 36 0.9	+ 2.4	....	....
12	N.	C.	14 44 20.53	+ 0.27	....	....	.	108 54.1	....	....	....
17	T.	.	15 2.1	....	....	....	C.	110 25 50.9	+ 0.5	....	....

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
			h	m	s	s	s	s		°	′	″	″	″	″
1868.															
Oct. 24	T.	I	15	14	44.79	+ 0.26	....	....	C.	111	5	1.1	− 1.9	....	....
29	E.	C.	15	9	16.62	+ 0.24	....	....	.	109	56.4	....	....	....	....
Nov. 11	N.	II	14	18	6.45	+ 0.30	....	....	C.	101	48	55.2	+ 4.0	....	....
13	T.	II	14	17	26.01	+ 0.21	....	....	S.	101	26	37.3	+ 1.4	....	....
22	N.	II	14	41	28.58	+ 0.09	....	....	S.	103	18	2.1	+ 0.6	....	....
27	T.	.	15	6.0	....	....	....	....	S.	105	32	38.6	+ 0.7	....	....
Dec. 11	T.	II	16	29	36.91	+ 0.40	....	....	C.	111	38	13.7	+ 2.2	....	....
18	T.	.	17	15.7	....	....	....	....	S.	113	40	31.0	+ 0.8	....	....
1869.															
Jan. 26	F.	C.	21	39	53.50	+ 0.11	....	....	C.	105	12	10.2	+ 0.4	....	....
Feb. 11	N.	I	22	50	46.00	+ 0.21	....	....	C.	96	33	54.0	− 0.2	....	....
Mar. 2	T.	II	21	35	50.52	+ 0.34	....	....	C.	102	19	37.2	− 0.5	....	....
4	F.	II	21	36	34.43	+ 0.17	....	....	C.	102	45	17.9	− 3.5	....	....
10	N.	C.	21	47	20.88	+ 0.35	....	....	C.	103	13	38.1	− 2.8	....	....
11	F.	C.	21	50	9.73	+ 0.16	....	....	C.	103	11	33.5	− 3.3	....	....
12	T.	II	21	53	13.14	+ 0.21	....	....	N.	103	7	41.1	− 1.9	....	....
15	F.	II	22	3	39.10	+ 0.25	....	....	N.	102	45	29.0	+ 0.2	....	....
22	F.	II	22	33	38.86	+ 0.35	....	....	C.	100	56	57.2	+ 0.3	....	....
23	T.	II	22	38	25.66	+ 0.22	....	....	N.	100	35	26.1	− 0.3	....	....
26	T.	II	22	53	22.07	+ 0.28	....	....	C.	99	22	36.6	− 0.2	....	....
30	T.	II	23	14	30.58	+ 0.31	....	....	N.	97	26	51.0	− 0.9	....	....
Apr. 4	N.	C.	23	42	40.83	+ 0.30	....	....	C.	94	34	9.8	− 3.3	....	....
5	F.	II	23	48	32.12	+ 0.09	....	....	C.	93	56	7.8	− 2.5	....	....
May 18	F.	C.	5	4	10.11	− 0.17	....	....	S.	64	52	32.7	− 0.2	....	....
20	N.	C.	5	17	48.34	− 0.07	....	....	N.	64	34	51.8	− 0.7	....	....
1870.															
Feb. 18	F.	.	20	32.3	....	....	....	....	C.	107	21	53.5	− 2.7	....	....
Mar. 2	F.	C.	21	14	42.14	+ 0.45	....	....	C.	106	45	5.5	− 4.0	....	....
7	E.	C.	21	39	24.38	+ 0.63	....	....	C.	105	29	19.7	− 2.2	....	....
8	F.	II	21	44	38.00	+ 0.25	....	....	C.	105	10	4.3	− 3.3	....	....
9	Ha.	C.	21	49	56.85	+ 0.19	....	....	C.	104	49	32.1	− 1.0	....	....
17	F.	II	22	34	55.55	+ 0.28	....	....	C.	101	18	0.1	− 1.6	....	....
18	Ha.	C.	22	40	48.73	+ 0.21	....	....	C.	100	45	50.2	− 1.9	....	....
21	Ha.	C.	22	58	47.83	+ 0.22	....	....	C.	99	1	58.3	− 1.4	....	....
23	F.	II	23	11	3.42	+ 0.32	....	....	C.	97	46	41.1	− 0.6	....	....
24	Ha.	C.	23	17	15.97	+ 0.31	....	....	C.	97	7	15.4	− 0.6	....	....
Apr. 5	Ha.	C.	0	36	44.68	+ 0.06	....	....	C.	87	48	51.6	+ 2.4	....	....
26	F.	.	3	10.6	.....	....	....	....	C.	70	35	33.1	+ 2.6	....	....
30	Ha.	I	3	39	52.02	− 0.03	....	....	C.	68	17	17.7	+ 1.1	....	....
May 16	E.	I	4	58	56.36	− 0.19	....	....	.	65	19.4	....	....	....	....
June 19	F.	II	4	36	42.95	− 0.14	....	....	.	72	13.0	....	....	....	....
20	S.	II	4	38	5.08	− 0.21	....	....	.	72	5.7	....	....	....	....
21	E.	II	4	39	46.21	− 0.23	....	....	C.	71	56	57.1	− 0.1	....	....
23	S.	II	4	44	5.47	− 0.22	....	....	.	71	35.2	....	....	....	....
24	E.	I	4	46	43.45	− 0.08	....	....	N.	71	22	24.3	− 0.1	....	....
27	E.	II	4	56	29.97	− 0.20	....	....	N.	70	38	5.4	− 1.0	....	....
28	F.	II	5	0	23.04	− 0.11	....	....	N.	70	21	46.6	− 0.4	....	....
July 8	S.	II	5	56	9.15	− 0.06	....	....	C.	67	35	39.4	+ 1.4	....	....
13	E.	II	6	34	52.37	− 0.12	....	....	S.	66	47	8.3	− 4.0	....	....
14	S.	II	6	43	19.21	− 0.15	....	....	C.	66	43	25.5	− 1.1	....	....
Aug. 3	F.	I	9	28	36.72	− 0.02	....	....	C.	73	16	21.6	− 0.4	....	....
6	E.	I	9	50	55.76	− 0.06	....	....	.	75	16.1	....	....	....	....
1871.															
Aug. 9	E.	.	10	50.6	.....	....	....	....	N.	82	46	3.7	0.0	....	....
11	F.	I	11	0	16.68	+ 0.16	....	....	N.	84	5	15.7	− 1.9	....	....
15	F.	I	11	17	58.29	+ 0.08	....	....	N.	86	38	27.8	+ 0.8	....	....
25	F.	I	11	51	53.20	− 0.04	....	....	.	92	6.0	....	....	....	....
Sept. 27	S.	II	11	18	57.26	+ 0.21	....	....	C.	85	13	51.6	+ 2.1	....	....
29	F.	II	11	23	7.67	+ 0.08	....	....	S.	85	8	12.1	− 1.0	....	....

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1871.			h	m	s	s	s	s		°	′	″	″	″	″
Dec. 21	S.	C.	19	19	23.57	+ 0.04	....	....	.	112	56.1	....	....	....	....
27	S.	C.	19	14	24.96	+ 0.27	....	....	C.	111	19	16.0	+ 3.3	....	....
1872.															
Jan. 19	E.	II	18	24	43.27	+ 0.22	....	....	C.	111	32	5.7	− 0.9	....	....
24	F.	II	18	45	2.10	+ 0.25	....	....	C.	112	5	17.7	− 0.2	....	....
25	S.	C.	18	49	44.81	+ 0.29	....	....	C.	112	9	40.8	− 1.5	....	....
29	S.	C.	19	10	10.05	+ 0.52	....	....	C.	112	17	47.9	− 1.3	....	....
31	E.	C.	19	21	7.75	+ 0.12	....	....	C.	112	15	32.1	− 1.7	....	....
Feb. 13	F.	II	20	39	41.89	+ 0.28	....	....	.	110	2.4	....	....	....	....
21	F.	II	21	31	30.29	+ 0.24	....	....	C.	106	50	16.1	− 3.4	....	....
Mar. 21	E.	C.	0	44	42.90	+ 0.03	....	....	C.	85	7	58.4	+ 1.3	....	....
Apr. 2	F.	I	1	56	32.29	− 0.13	....	....	C.	75	35	10.2	+ 2.7	....	....
5	Ha.	I	2	8	27.80	− 0.05	....	....	C.	74	6	30.2	+ 1.8	....	....
10	F.	I	2	20	50.66	+ 0.01	....	....	S.	72	42	24.8	+ 1.9	....	....
May 7	F.	II	1	52	17.57	− 0.14	....	....	N.	81	2	29.2	− 1.1	....	....
27	F.	II	2	48	12.25	− 0.01	....	....	N.	77	3	13.4	+ 0.7	....	....
30	E.	.	3	3.8	....	....	....	....	C.	75	35	51.1	− 0.5	....	....
31	E.	II	3	9	19.80	− 0.13	....	....	.	75	5	12.5	− 0.2	2.6	− 0.8
June 10	S.	.	4	16	42.31	+ 0.11	0.50	+0.30	.	69	45	21.4	− 1.4	2.7	− 0.2
11	E.	II	4	24	39.06	− 0.14	....	....	N.	69	15	7.8	+ 1.1	....	....
12	E.	II	4	32	49.30	− 0.12	....	....	C.	68	45	50.5	+ 0.7	....	....
July 5	S.	C.	7	54	33.77	− 0.09	....	....	C.	67	15.0	....	....	....	....
30	E.	I	10	25	39.37	− 0.27	....	....	C.	81	3	52.0	− 0.6	....	....
Aug. 3	F.	I	10	39	49.76	− 0.22	....	....	N.	83	15	23.0	− 1.3	....	....
7	E.	I	10	50	53.18	− 0.21	....	....	N.	85	12	4.9	− 2.3	....	....
19	E.	I	10	59	46.18	− 0.35	....	....	.	88	15.4	....	....	....	....
Nov. 7	E.	I	15	51	48.01	− 0.09	....	....	C.	112	0	18.3	+ 4.3	....	....
15	E.	I	16	41	3.59	+ 0.11	....	....	C.	114	33	59.9	− 0.8	....	....
23	E.	I	17	27	46.22	+ 0.05	....	....	C.	115	45	0.9	+ 3.8	....	....
Dec. 4	S.	C.	18	10	42.62	+ 0.22	....	....	.	114	53.4	....	....	....	....
1873.															
Jan. 29	E.	C.	19	53	7.13	+ 0.13	....	....	.	112	22.4	....	....	....	....
Mar. 7	E.	I	23	59	48.70	− 0.13	....	....	.	90	8	38.7	+ 2.8	2.8	0.0
19	E.	I	1	1	25.29	− 0.01	....	....	S.	80	51	59.5	+ 1.8	....	....
May 16	E.	II	2	12	30.45	+ 0.04	....	....	N.	79	29	10.1	− 0.3	....	....
June 3	F.	C.	4	26	0.72	− 0.05	....	....	C.	68	13	49.2	+ 2.3	....	....
18	E.	C.	6	37	41.79	− 0.17	....	....	C.	64	58	37.3	+ 2.5	....	....
July 7	E.	I	8	53	29.97	− 0.22	....	....	N.	71	40	18.1	0.0	....	....
12	E.	I	9	17	11.68	− 0.26	....	....	N.	74	13	17.3	+ 0.7	....	....
16	E.	I	9	32	25.65	− 0.22	....	....	N.	76	13	13.8	0.0	....	....
22	F.	I	9	48	29.76	− 0.21	....	....	S.	78	54	41.9	− 0.4	....	....
24	E.	I	9	51	50.75	− 0.33	....	....	.	79	40.2	....	....	....	....
Nov. 5	E.	I	16	12	36.54	+ 0.24	....	....	C.	113	50	20.5	+ 2.7	....	....
Dec. 14	E.	.	16	4.7	....	....	....	....	C.	108	12	44.5	− 1.1	....	....
18	E.	II	16	18	55.54	+ 0.27	....	....	C.	109	16	11.0	+ 0.7	....	....
30	E.	II	17	22	9.69	+ 0.27	....	....	C.	112	39	20.1	− 1.5	....	....
1874.															
Jan. 14	Sk.	C.	18	59	20.68	+ 0.36	....	....	C.	113	58	50.2	+ 2.2	....	....
16	Sk.	C.	19	13	0.84	+ 0.44	....	....	C.	113	47	59.8	+ 0.5	....	....
Feb. 17	E.	I	22	48	49.50	− 0.11	....	....	C.	98	36	43.6	+ 0.5	....	....
Mar. 2	F.	I	23	57	49.18	+ 0.11	....	....	S.	88	20	57.1	+ 1.9	....	....
Apr. 10	F.	II	23	42	54.74	0.00	....	....	C.	93	46	47.7	+ 1.1	....	....
29	E.	II	1	7	23.85	+ 0.18	....	....	N.	85	45	50.0	+ 2.7	....	....
May 6	Sk.	C.	1	49	55.72	+ 0.09	....	....	C.	81	1	7.3	+ 1.4	....	....
June 1	E.	I	5	18	3.97	− 0.27	....	....	.	65	17	30.7	+ 2.0	2.7	0.0
9	E.	I	6	27	13.94	− 0.25	....	....	.	64	37	42.1	− 0.1	3.4	+ 0.7
15	S.	I	7	11	20.61	− 0.18	....	....	C.	65	39	33.5	− 0.4	....	....
22	F.	I	7	52	47.79	− 0.06	....	....	.	67	53	36.8	− 0.5	3.5	− 0.1
25	E.	I	8	7	4.70	− 0.26	....	....	.	69	2	26.8	+ 1.6	4.7	+ 0.9

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1874.			h	m	s	s	s	s		°	′	″	″	″	″
June 29	E.	I	8	22	42.01	− 0.31	....	....	.	70	37	51.7	+ 0.3	4.1	0.0
July 6	Sk.	I	8	39	50.72	− 0.35	....	....	N.	73	16	19.7	− 0.4	....	....
7	E.	I	8	41	9.02	− 0.38	....	....	N.	73	36	21.7	− 0.2	....	....
9	S.	I	8	42	52.10	− 0.21	....	....	C.	74	13	19.4	2.2	....	....
10	Sk.	I	8	43	14.05	− 0.46	....	....	N.	74	30	4.5	− 1.3	....	....
Sept. 24	Sk.	C.	12	53	27.30	+ 0.07	....	....	C.	95	37	34.6	+ 0.9	....	....
25	E.	I	12	59	12.32	+ 0.07	....	....	C.	96	21	14.1	+ 3.3	....	....
26	F.	I	13	4	54.79	+ 0.01	....	....	C.	97	4	15.9	− 0.4	....	....
Oct. 1	S.	.	13	32	54.73	+ 0.15	0.23	+ 0.05	.	100	30	57.8	+ 1.3	3.2	+ 0.7
2	Sk.	C.	13	38	24.80	+ 0.12	....	....	C.	101	10	24.5	+ 2.5	....	....
3	E.	I	13	43	53.03	+ 0.04	....	....	C.	101	49	5.3	− 1.0	....	....
5	S.	.	13	54	44.55	+ 0.23	0.21	+ 0.03	.	103	4	25.0	− 1.0	3.5	+ 0.9
9	S.	.	14	16	5.68	+ 0.13	0.24	+ 0.05	.	105	25	51.5	+ 3.9	3.6	+ 0.9
15	E.	I	14	47	0.29	+ 0.02	....	....	C.	108	31	18.1	+ 1.9	....	....
19	E.	I	15	6	26.53	+ 0.13	....	....	C.	110	13	56.7	− 1.3	....	....
26	Sk.	I	15	35	54.33	+ 0.18	....	....	C.	112	22	29.6	+ 2.1	....	....
Nov. 24	F.	II	14	53	56.10	+ 0.16	....	....	.	103	59	18.1	+ 0.6	3.2	− 0.9
26	Sk.	II	14	57	0.53	+ 0.17	....	....	.	104	10	21.3	+ 0.8	3.8	0.0
Dec. 18	F.	II	16	45	57.40	+ 0.28	....	....	.	112	1	1.4	+ 0.1	2.6	0.0
20	Sk.	C.	16	58	42.01	+ 0.39	....	....	C.	112	36	32.8	+ 1.8	....	....
22	F.	II	17	11	39.57	+ 0.41	....	....	C.	113	7	59.6	+ 3.3	....	....
29	E.	II	17	58	26.53	+ 0.40	....	....	C.	114	21	58.7	+ 1.7	....	....
1875.															
Feb. 8	E.	I	22	32	38.43	− 0.01	....	....	C.	99	28	23.0	+ 1.6	....	....
15	Sk.	.	23	1	20.55	+ 0.09	0.28	− 0.03	.	94	45	33.1	+ 0.9	1.8	+ 1.9
18	S.	I	23	6	26.21	+ 0.21	....	....	.	93	23.0	....	....	....	....
Apr. 4	E.	II	23	22	39.55	+ 0.13	....	....	C.	96	31	12.6	+ 0.8	....	....
May 19	E.	I	4	34	42.07	− 0.39	....	....	.	66	18	7.4	+ 1.5	2.2	+ 0.6
27	E.	I	5	39	22.67	− 0.31	....	....	.	64	25	29.2	+ 2.8	2.6	+ 0.5
28	F.	I	5	46	38.48	− 0.37	....	....	.	64	22.1	....	....	....	....
31	E.	I	6	7	7.29	− 0.33	....	....	.	64	24	4.8	− 0.7	3.4	0.0
June 4	E.	I	6	31	8.10	− 0.26	....	....	.	64	50	43.1	+ 1.6	2.9	+ 0.8
21	F.	I	7	23	56.01	− 0.39	....	....	N.	69	16	40.5	0.0	....	....
July 25	E.	II	6	58	22.34	− 0.16	....	....	.	69	30	14.2	+ 1.6	4.0	0.0
Aug. 4	E.	II	7	54	4.0	− 0.16	....	....	S.	68	59	25.3	+ 1.5	....	....
8	P.	II	8	24	41.91	+ 0.03	....	....	S.	69	47	41.3	+ 1.5	....	....
9	Sk.	II	8	32	45.61	− 0.16	....	....	S.	70	6	25.3	− 0.1	....	....
30	P.	.	11	6	17.00	− 0.01	0.15	+ 0.02	.	82	46	59.8	+ 1.1	2.8	− 0.4
Sept. 3	F.	I	11	31	58.98	+ 0.01	....	....	.	85	53.9	....	....	....	....
4	P.	C.	11	38	10.12	+ 0.03	....	....	C.	86	40	27.0	+ 1.3	....	....
8	P.	C.	12	2	4.04	+ 0.05	....	....	C.	89	44	39.5	+ 1.7	....	....
11	F.	I	12	19	12.29	+ 0.13	....	....	.	91	59	32.8	+ 1.1	3.8	− 1.2
24	P.	I	13	27	13.71	+ 0.21	....	....	C.	100	51	1.9	− 1.2	....	....
25	F.	I	13	32	3.82	− 0.02	....	....	C.	101	27	13.7	− 1.9	....	....
Oct. 2	E.	I	14	3	56.76	+ 0.04	....	....	S.	105	15	24.1	+ 1.7	....	....
8	Sk.	I	14	27	8.80	+ 0.10	....	....	N.	107	45	58.1	+ 1.2	....	....
13	Sk.	I	14	41	14.23	+ 0.13	....	....	N.	109	6	3.8	+ 2.3	....	....
Nov. 5	Sk.	II	13	52	24.40	+ 0.32	....	....	S.	99	49	31.3	+ 1.1	....	....
10	E.	II	13	56	13.60	+ 0.19	....	....	S.	99	28	46.7	+ 3.7	....	....
11	P.	II	13	58	42.72	+ 0.15	....	....	S.	99	39	12.8	+ 1.6	....	....
16	P.	II	14	17	7.79	+ 0.07	....	....	S.	101	19	46.0	+ 1.8	....	....
18	E.	II	14	26	31.32	+ 0.23	....	....	.	102	14	37.0	+ 1.4	2.7	− 0.4
21	Sk.	II	14	41	59.83	+ 0.08	....	....	S.	103	44	16.5	− 2.7	....	....
Dec. 1	F.	II	15	40	32.22	+ 0.27	....	....	.	108	46.8	....	....	....	....
12	E.	II	16	51	29.85	+ 0.30	....	....	.	113	0.7	....	....	....	....
15	P.	II	17	11	41.31	+ 0.05	....	....	.	113	47.9	....	....	....	....
19	P.	II	17	39	6.16	+ 0.19	....	....	C.	114	33	37.7	+ 0.7	....	....
20	E.	II	17	46	2.31	+ 0.38	....	....	C.	114	41	50.3	+ 0.8	....	....

MERCURY—Continued.

Date.		Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1876.				h	m	s	s	s	s		°	′	″	″	″	″
Jan.	26	E.	I	21	47	12.48	— 0.09	....	....	C.	103	39	14.2	— 1.8	....	....
Feb.	5	S.	I	22	4	53.64	+ 0.17	....	....	S.	99	15	9.4	+ 0.7	....	....
Mar.	26	F.	II	23	8	20.40	+ 0.15	....	....	N.	98	5	11.1	— 1.8	....	....
	30	F.	II	23	31	51.81	+ 0.25	....	....	N.	95	39	35.5	— 0.6	....	....
Apr.	5	P.	II	0	9	9.86	+ 0.15	....	....	C.	91	27	19.8	— 0.3	....	....
	9	P.	II	0	35	33.45	+ 0.05	....	....	C.	88	18	39.3	+ 0.2	....	....
	10	E.	·	0	42	22.33	— 0.02	0.20	+ 0.02	C.	87	29	13.1	+ 0.5	....	....
	29	S.	C.	3	1	31.90	— 0.19	....	....	C.	71	57	4.8	+ 4.5	....	....
May	1	E.	I	3	18	8.21	— 0.25	....	....	C.	70	30	15.4	+ 2.3	....	....
	4	P.	I	3	42	36.74	— 0.20	....	....	C.	68	36	41.6	+ 2.9	....	....
	13	P.	I	4	48	16.69	— 0.18	....	....	C.	65	10	2.5	+ 1.5	....	....
	15	P.	I	5	0	34.17	— 0.09	....	....	·	64	50	13.7	+ 2.3	3.6	+ 0.1
	20	P.	I	5	26	43.19	— 0.18	....	....	C.	64	35	8.7	+ 1.0	....	....
	22	P.	I	5	35	11.43	— 0.23	....	....	·	64	41	3.7	+ 1.1	3.1	— 1.1
	23	S.	I	5	38	58.18	— 0.34	....	....	C.	64	46	12.6	0.0	....	....
	29	E.	I	5	54	54.52	— 0.41	....	....	C.	65	42	59.1	+ 1.8	....	....
June	1	P.	I	5	58	21.08	— 0.41	....	....	C.	66	24	20.9	+ 0.4	....	....
	27	S.	II	5	22	17.68	— 0.40	....	....	N.	71	16	46.6	+ 1.4	....	....
July	10	P.	II	5	55	35.26	— 0.19	....	....	·	68	49	22.2	+ 0.4	3.8	0.0
	11	F.	II	6	0	35.83	— 0.10	....	....	·	68	35	41.7	+ 0.1	3.4	— 0.3
	18	P.	II	6	44	51.50	— 0.31	....	....	C.	67	24	54.5	+ 1.8	....	....
	19	E.	II	6	52	22.94	— 0.45	....	....	C.	67	20	42.7	— 0.4	....	....
	21	S.	C.	7	8	11.00	— 0.12	....	....	C.	67	18	46.2	— 0.3	....	....
	26	P.	II	7	50	48.85	— 0.15	....	....	C.	67	57	22.1	+ 1.1	....	....
Aug.	21	E.	I	11	3	43.73	+ 0.01	....	....	C.	82	59	56.0	— 0.6	....	....
	26	F.	II	11	33	3.26	— 0.31	....	....	·	86	44	10.2	+ 1.1	2.7	+ 0.1
	28	E.	C.	11	44	7.00	— 0.03	....	....	C.	88	12	18.8	— 1.0	....	....
Sept.	4	S.	C.	12	20	7.08	+ 0.01	....	....	C.	93	8	30.2	+ 1.2	....	....
	28	S.	I	13	41	58.24	— 0.02	....	....	N.	104	26	6.7	— 0.4	....	....
Oct.	3	P.	I	13	41	27.68	— 0.08	....	....	N.	104	18	23.9	+ 1.9	....	....
	18	P.	II	12	53	10.57	+ 0.28	....	....	·	95	5.6	....	....	....	....
	23	E.	II	12	54	46.93	+ 0.15	....	....	S.	94	2	34.8	+ 1.8	....	....
	26	P.	II	13	2	40.39	+ 0.06	....	....	·	94	29	10.1	+ 2.1	3.3	— 0.3
	31	E.	II	13	23	36.94	+ 0.05	....	....	·	96	27	39.9	+ 0.6	3.0	— 0.2
Nov.	3	P.	II	13	39	4.12	+ 0.04	....	....	·	98	5	4.5	— 0.2	2.9	— 0.1
	7	P.	II	14	1	31.13	+ 0.08	....	....	·	100	28	15.0	— 0.7	3.5	+ 0.7
	8	E.	C.	14	7	21.14	+ 0.19	....	....	C.	101	5	2.3	+ 2.6	....	....
1877.																
Feb.	12	E.	II	20	7	0.16	+ 0.27	....	....	C.	108	49	27.4	— 0.9	....	....
	16	E.	II	20	19	27.56	+ 0.35	....	....	C.	108	57	10.9	— 0.1	....	....
	28	E.	II	21	15	5.61	+ 0.32	....	....	C.	107	13	28.3	— 0.6	....	....
Mar.	5	S.	C.	21	42	45.83	+ 0.24	....	....	C.	105	33	56.6	— 2.0	....	....
	14	P.	II	22	36	10.56	+ 0.24	....	....	C.	101	13	32.0	— 0.4	....	....
Apr.	12	S.	I	1	50	34.19	— 0.05	....	....	C.	78	26	22.4	+ 3.0	....	....
	24	S.	II	3	18	55.63	— 0.40	....	....	C.	69	27	32.1	+ 2.6	....	....
May	4	E.	I	4	11	6.84	— 0.27	....	....	S.	66	15	36.2	+ 2.4	....	....
June	18	S.	II	4	19	35.65	— 0.14	....	....	·	72	10	53.7	+ 2.0	2.4	— 1.9
	22	S.	II	4	35	28.08	— 0.07	....	....	C.	70	59	4.0	+ 1.8	....	....
July	30	P.	·	9	27	5.80	— 0.10	0.17	— 0.01	·	73	12	37.3	— 0.6	2.1	— 0.4
Oct.	4	S.	II	11	52	11.79	+ 0.26	....	....	S.	88	51	27.4	+ 2.7	....	....
	12	S.	II	12	11	58.05	+ 0.27	....	....	S.	89	19	48.8	+ 1.1	....	....
	31	P.	C.	14	0	37.55	+ 0.20	....	....	C.	101	4	16.3	+ 1.4	....	....
Dec.	3	P.	C.	17	27	52.35	+ 0.11	....	....	C.	115	15	5.9	— 2.2	....	....
	14	E.	C.	18	42	2.71	+ 0.17	....	....	C.	115	22	30.6	+ 0.3	....	....
1878.																
Feb.	18	P.	II	20	49	58.25	+ 0.30	....	....	C.	109	14	2.4	— 0.6	....	....
	26	P.	C.	21	39	39.32	+ 0.34	....	....	C.	106	7	57.6	— 1.6	....	....
	27	E.	C.	21	46	1.28	+ 0.26	....	....	C.	105	38	46.6	— 1.8	....	....
Apr.	5	E.	I	0	54	30.46	— 0.17	....	....	C.	76	48	57.2	+ 1.5	....	....

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1878.			h m s	s	s	s		° ′ ″	″	″	″
Apr. 11	S.	I	2 29 54.61	− 0.18	....	....	C.	72 45 8.9	+ 0.6	....	....
12	P.	I	2 34 53.76	− 0.05	....	....	C.	72 13 34.7	− 1.1	....	....
13	E.	I	2 39 34.31	− 0.18	....	....	S.	71 44 51.7	+ 1.0	....	....
May 5	E.	.	2 54.5	....	....	....	.	73 13 52.1	+ 2.4	5.6	− 0.3
21	P.	II	2 39 38.24	− 0.29	...	....	.	78 2.9	....	....	....
22	E.	II	2 40 44.81	− 0.33	....	....	N.	78 3 21.3	+ 1.3	....	....
26	E.	II	2 47 47.68	− 0.26	....	....	N.	77 42 57.5	+ 0.7	....	....
June 3	E.	II	3 13 32.95	+ 0.12	....	....	N.	75 33 53.8	+ 0.9	....	....
6	P.	II	3 26 57.32	− 0.10	....	....	N.	74 23 15.6	+ 0.6	....	....
13	P.	II	4 6 9.64	− 0.10	....	....	N.	71 13 44.6	+ 1.0	....	....
14	S.	II	4 12 41.66	− 0.12	....	....	C.	70 45 36.2	− 0.5	....	....
19	E.	II	4 48 59.07	− 0.14	....	....	N.	68 30 44.4	+ 0.2	....	....
23	E.	II	5 22 15.10	− 0.14	....	....	N.	67 0 41.2	+ 1.3	....	....
Sept. 18	P.	II	10 51 28.26	− 0.06	....	....	.	83 20.6	....	....	....
19	E.	II	10 52 17.97	+ 0.08	....	....	S.	83 5 57.4	+ 0.5	....	....
27	P.	II	11 17 52.38	+ 0.05	....	....	C.	83 52 3.4	+ 1.2	....	....
Oct. 1	Pr.	II	11 39 28.94	+ 0.17	....	....	C.	85 46 18.8	+ 0.2	....	....
9	Pr.	II	12 28 49.53	+ 0.09	....	....	C.	91 8 2.0	+ 1.2	....	....
Nov. 4	S.	C.	15 4 38.64	+ 0.29	....	....	C.	108 2 19.0	+ 2.1	....	....
11	Pr.	I	15 48 37.45	− 0.02	....	....	C.	111 24 56.9	+ 1.9	....	....
14	Pr.	.	16 7.7	....	....	....	C.	112 36 24.9	+ 0.9	....	....
29	S.	C.	17 43 18.75	− 0.19	....	....	C.	115 48 48.8	+ 1.8	....	....
Dec. 3	S.	C.	18 6 57.32	+ 0.06	....	....	C.	115 47 49.9	+ 1.6	....	....
11	S.	C.	18 43 58.28	+ 0.36	....	....	.	114 40.4	....	....	....
13	Pr.	I	18 49 14.46	+ 0.04	....	....	C.	114 12 36.8	− 0.6	....	....
1879.					....	....				....	....
Feb. 20	S.	C.	21 48 30.88	+ 0.38	....	....	C.	105 30 6.4	− 0.4	....	....
Apr. 1	F.	I	1 46 52.95	− 0.18	....	....	N.	75 48 55.2	+ 3.0	....	....
May 2	F.	II	1 21 45.72	− 0.06	....	....	.	83 50.5	....	....	....
23	S.	C.	2 32 22.50	− 0.06	....	....	C.	78 4 52.4	+ 0.1	....	....
27	S.	C.	2 55 8.22	+ 0.03	....	....	C.	75 52 34.6	− 0.1	....	....
June 3	F.	II	3 42 21.32	− 0.12	....	....	C.	71 45 55.1	+ 0.1	....	....
4	S.	.	3 49.9	....	....	....	C.	71 11 2.2	+ 2.5	....	....
6	Pr.	.	4 5 42.10	− 0.24	0.22	+ 0.02	C.	70 2 54.7	+ 0.9	....	....
9	P.	II	4 30 56.25	− 0.21	....	....	C.	68 27 53.9	+ 2.4	....	....
10	Pr.	II	4 39 44.70	− 0.10	....	....	C.	67 58 54.1	+ 1.5	....	....
12	S.	C.	4 57 52.65	− 0.28	....	....	C.	67 6 13.8	+ 2.3	....	....
July 18	F.	II	9 35 1.75	− 0.56	....	....	.	75 15.1	....	....	....
21	Pr.	I	9 49 3.69	− 0.10	....	....	C.	76 57 16.5	+ 0.2	....	....
					....						
Aug. 5	P.	I	10 32 12.35	− 0.15	....	....	N.	84 4 54.9	0.0	....	....
Sept. 14	Pr.	II	10 34 25.41	− 0.06	....	....	C.	79 30 23.1	+ 0.1	....	....
16	S.	C.	10 46 51.09	− 0.06	....	....	C.	80 30 37.0	+ 3.7	....	....
24	S.	C.	11 40 0.86	+ 0.01	....	....	C.	85 50 25.5	− 0.2	....	....
25	P.	C.	11 46 42.17	+ 0.07	....	....	C.	86 35 39.7	− 0.5	....	....
26	Pr.	.	11 53 21.52	0.00	0.19	+ 0.03	C.	87 21 28.6	+ 0.5	....	....
30	Pr.	II	12 19 35.74	+ 0.12	....	....	C.	90 27 37.3	+ 1.5	....	....
Oct. 13	Pr.	.	13 34 29.72	+ 0.29	0.18	+ 0.02	C.	99 28 47.3	− 0.1	....	....
25	Pr.	C.	14 46 27.49	+ 0.29	....	....	C.	107 7 0.0	+ 3.1	....	....
Nov. 13	P	C.	16 39 5.49	+ 0.32	....	....	C.	114 41 36.1	+ 1.9	....	....
Dec. 25	S.	C.	16 45 24.80	+ 0.29	....	....	C.	109 56 13.0	+ 0.1	....	....
1880.										....	....
Jan. 18	S.	C.	18 55 32.18	+ 0.29	....	....	C.	113 39 47.3	+ 0.4	....	....
20	E.	II	19 8 41.28	+ 0.37	....	....	C.	113 33 5.0	− 0.6	....	....
23	P.	II	19 28 40.94	+ 0.44	....	....	C.	113 13 11.5	+ 0.3	....	....
Feb. 20	S.	C.	22 35 24.00	+ 0.21	....	....	C.	100 37 0.0	− 1.9	....	....
Mar. 17	E.	I	0 44 54.28	+ 0.01	....	....	S.	81 47 31.0	+ 2.9	....	....
Apr. 8	P.	II	0 5 57.36	+ 0.09	....	....	.	89 18.8	....	....	....
9	E.	II	0 5 52.44	0.02	....	....	N.	89 35 50.7	+ 1.9	....	....
27	S.	C.	0 48 20.55	− 0.11	....	....	C.	87 56 17.4	+ 0.3	....	....

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1880.			h m s	s	s	s		° ′ ″	″	″	″
Apr. 29	E.	II	0 56 53.40	+ 0.03	....	....	N.	87 6 42.2	+ 1.5	....	....
May 2	P.	II	1 10 46.79	+ 0.03	....	....	.	85 41.8	....	....	....
5	S.	C.	1 25 54.34	+ 0.04	....	....	C.	84 5 37.2	− 1.2	....	....
9	S.	C.	1 47 59.17	+ 0.08	....	....	C.	81 42 46.1	+ 1.0	....	....
11	E.	II	1 59 52.26	− 0.01	....	....	C.	80 26 2.3	− 0.5	....	....
13	S.	C.	2 12 21.11	+ 0.02	....	....	C.	79 6 32.0	+ 0.8	....	....
14	P.	II	2 18 49.42	− 0.02	....	....	N.	78 25 54.5	+ 1.9	....	....
19	E.	II	2 53 40.82	+ 0.06	....	....	C.	74 57 22.8	+ 1.2	....	....
25	S.	C.	3 41 26.69	− 0.13	....	....	C.	70 51 11.5	+ 1.2	....	....
June 29	E.	I	8 21 47.50	− 0.24	....	....	C.	69 22 50.6	+ 0.4	....	....
July 17	R.	I	9 23 42.78	− 0.27	....	....	C.	77 11 16.1	− 0.4	....	....
Sept. 10	S.	C.	11 4 32.66	− 0.11	....	....	C.	82 7 39.5	− 0.4	....	....
20	R.	.	12 5 12.33	+ 0.08	0.16	0.00	C.	89 10 52.3	+ 0.6	....	....
25	W.	C.	12 36 31.18	+ 0.33	....	....	C.	93 4 59.9	+ 2.0	....	....
29	W.	C.	13 0 37.76	+ 0.14	....	....	.	96 5.7	...	....	....
Oct. 6	R.	I	13 41 26.27	+ 0.09	....	....	C.	101 1 42.9	+ 2.2	....	....
7	W.	C.	13 47 9.99	+ 0.32	....	....	C.	101 41 30.3	+ 2.4	....	....
15	W.	C.	14 32 17.83	+ 0.20	....	....	C.	106 33 15.7	+ 2.3	....	....
18	R.	I	14 48 55.68	+ 0.19	....	....	C.	108 9 1.4	+ 1.6	....	....
19	W.	C.	14 54 25.73	+ 0.23	....	....	C.	108 39 5.6	+ 1.2	....	....
27	W.	C.	15 37 3.83	+ 0.08	....	....	C.	112 2 6.5	+ 1.3	....	....
Nov. 8	W.	I	16 26 58.28	+ 0.14	....	....	N.	114 25 12.6	+ 1.2	....	....
11	R.	I	16 32 36.53	− 0.01	....	....	C.	114 19 16.4	+ 3.3	....	....
Dec. 3	S.	C.	15 30 32.25	+ 0.25	....	....	C.	106 14 40.1	+ 1.3	....	....
8	R.	II	15 41 43.69	+ 0.16	....	....	C.	107 7 35.1	+ 0.5	....	....
9	W.	.	15 45.2	....	....	....	C.	107 24 37.9	+ 3.2	....	....
21	W.	II	16 45 13.76	+ 0.21	....	....	C.	111° 25 28.5	+ 2.2	....	....
1881.											
Feb. 4	R.	.	21 44.4	....	....	....	C.	105 30 5.0	+ 2.7	....	....
5	W.	I	21 51 17.84	+ 0.25	....	....	C.	104 49 30.2	+ 0.5	....	....
12	R.	I	22 38 4.53	+ 0.05	....	....	C.	99 33 17.2	− 1.0	....	....
14	E.	I	22 50 26.59	+ 0.04	....	....	C.	97 56 16.3	− 0.8	....	....
24	R.	I	23 36 7.70	− 0.05	....	....	C.	90 39 31.4	+ 2.4	....	....
26	E.	I	23 40 14.73	+ 0.14	....	....	C.	89 41 19.9	+ 3.3	....	....
Apr. 22	E.	II	0 43 54.25	+ 0.11	....	....	N.	88 10 5.4	0.0	....	....
27	S.	C.	1 13 35.91	+ 0.15	....	....	.	84 48.1	....	....	....
May 27	R.	I	5 7 40.02	− 0.28	....	....	C.	65 22 12.7	+ 1.6	....	....
31	R.	I	5 42 15.15	− 0.29	....	....	C.	64 35 19.2	0.0	...	....
June 18	E.	I	7 38 13.27	− 0.37	....	....	C.	67 32 7.7	− 0.2	....	....
20	R.	I	7 46 18.58	− 0.39	....	....	C.	68 12 58.9	1.1	....	....
21	W.	I	7 49 57.30	− 0.39	....	....	.	68 33 53.3	− 0.1	3.6	− 0.6
Aug. 2	R.	II	7 36 40.79	− 0.03	....	....	C.	70 37 18.1	+ 0.9	....	....
7	W.	II	7 56 59.79	− 0.10	....	....	S.	70 8 44.7	+ 2.1	....	....
10	R.	II	8 14 2.74	− 0.16	....	....	C.	70 14 59.2	+ 1.7	....	....
22	R.	II	9 43 9.93	− 0.11	....	....	C.	74 33 2.1	− 0.5	....	....
Sept. 24	R.	I	13 11 49.37	+ 0.24	....	....	C.	98 17 52.7	+ 2.6	....	....
Oct. 10	R.	I	14 33 11.83	+ 0.07	....	....	C.	107 38 15.6	+ 1.9	....	....
14	R.	.	14 50.9	....	....	....	C.	109 19 14.9	+ 2.4	....	....
17	S.	C.	15 2 49.94	+ 0.20	....	....	C.	110 20 42.2	+ 2.4	....	....
20	E.	I	15 13 0.36	− 0.23	....	....	C.	111 7 23.9	+ 3.7	....	....
25	S.	I	15 24 4.85	+ 0.07	....	....	C.	111 43 6.4	+ 0.7	....	....
Nov. 13	S.	C.	14 29 9.13	+ 0.43	....	....	C.	102 46 41.3	+ 4.3	....	....
16	E.	II	14 27 28.07	+ 0.24	....	....	S.	102 10 40.8	+ 1.9	....	....
24	E.	.	14 47.9	....	....	....	C.	103 44 35.4	+ 2.0	....	...
27	W.	C.	15 1 30.05	+ 0.13	....	....	C.	104 58 27.5	− 1.6	....	....
Dec. 1	W.	C.	15 22 15.45	+ 0.16	....	....	C.	106 46 55.4	− 0.4	....	....
8	R.	II	16 3 3.42	+ 0.36	....	....	C.	109 52 25.9	+ 0.3	....	....
15	S.	C.	16 47 8.74	+ 0.54	....	....	C.	112 24 39.5	+ 2.5	....	....
16	R.	II	16 53 50.19	+ 0.27	....	....	C.	112 42 29.9	− 1.6	....	....

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1881.			h	m	s	s	s	s		°	′	″	″	″	″
Dec. 23	S.	C.	17	40	43.26	+ 0.47	....	....	C.	114	16	13.0	+ 4.1	....	....
1882.															
Feb. 1	S.	C.	22	8	13.80	+ 0.15	....	....	C.	102	2	26.2	+ 0.8	....	....
2	R.	I	22	13	25.75	+ 0.08	....	....	C.	101	20	31.8	+ 0.3	....	....
6	R.	I	22	30	40.81	+ 0.09	....	....	C.	98	41	33.5	+ 2.7	....	....
10	R.	I	22	40	19.90	+ 0.05	....	....	C.	96	35	25.7	+ 3.1	....	....
15	W.	I	22	38	51.43	+ 0.11	....	....	S.	95	22	40.4	+ 3.0	....	....
Mar. 2	W.	II	21	48	45.98	+ 0.19	....	....	C.	100	37	23.5	+ 1.4	....	....
9	R.	II	21	49	53.88	+ 0.09	....	....	C.	102	14	43.3	+ 1.5	....	....
29	R.	.	23	3.9	....	....	....	....	C.	98	22	49.1	+ 0.3	....	....
30	W.	C.	23	9	2.70	+ 0.22	....	....	C.	97	55	6.8	+ 0.1	....	....
Apr. 11	W.	II	0	17	0.96	+ 0.09	....	....	N.	90	47	23.7	− 0.5	....	....
12	R.	II	0	23	12.38	+ 0.14	....	....	C.	90	4	33.8	+ 1.3	....	....
16	E.	II	0	48	52.07	+ 0.14	....	....	N.	87	3	33.3	+ 0.6	....	....
17	W.	II	0	55	31.38	+ 0.04	....	....	C.	86	16	6.7	+ 0.8	....	....
27	W.	II	2	8	20.67	− 0.07	....	....	C.	77	49	50.7	+ 0.8	....	....
May 9	R.	I	3	40	53.32	− 0.35	....	....	C.	69	13	55.8	+ 3.2	....	....
17	R.	I	4	47	34.54	− 0.31	....	....	C.	65	29	34.3	+ 2.8	....	....
23	E.	I	5	30	59.48	− 0.32	....	....	C.	64	25	49.4	− 0.1	....	....
24	S.	C.	5	37	28.05	− 0.21	....	....	C.	64	22	48.9	− 0.3	....	....
29	R.	I	6	6	7.03	− 0.26	....	....	C.	64	34	24.4	− 0.1	....	....
30	W.	I	6	11	3.57	− 0.22	....	....	.	64	41	18.0	− 1.4	3.4	− 0.4
31	E.	I	6	15	43.39	− 0.28	....	....	.	64	49	29.9	− 1.9	3.6	− 0.3
June 2	R.	I	6	24	11.92	− 0.29	....	....	C.	65	9	26.4	+ 1.1	....	....
8	E.	I	6	42	23.21	− 0.56	....	....	C.	66	30	2.1	− 0.9	....	....
July 23	R.	II	6	53	6.80	− 0.14	....	....	C.	68	21	35.8	+ 1.1	....	....
24	W.	II	6	59	3.78	− 0.27	....	....	.	68	15	12.8	+ 0.6	3.6	+ 0.3
Sept. 15	W.	I	12	55	58.28	+ 0.08	....	....	N.	97	18	26.6	− 2.4	....	....
19	S.	C.	13	14	55.01	+ 0.07	....	....	C.	99	48	42.0	+ 0.1	....	....
21	S.	C.	13	23	56.39	+ 0.07	....	....	C.	100	58	57.3	+ 0.7	....	....
29	W.	I	13	56	0.59	+ 0.05	....	....	N.	104	58	20.3	− 0.3	....	....
Oct. 9	W.	I	14	19	21.41	+ 0.11	....	....	N.	107	31	43.9	+ 0.9	....	....
14	W.	I	14	17	29.80	− 0.07	....	....	N.	107	1	31.1	+ 1.8	....	....
Nov. 2	W.	C.	13	29	25.80	+ 0.26	....	....	C.	97	12	32.7	+ 0.3	....	....
5	S.	C.	13	37	12.49	+ 0.07	....	....	C.	97	43	29.8	+ 1.4	....	....
14	W.	II	14	18	24.21	+ 0.07	....	....	C.	101	46	24.9	+ 0.6	....	....
23	W.	C.	15	10	58.94	+ 0.25	....	....	C.	106	44	8.7	+ 2.0	....	....
26	W.	C.	15	29	35.25	+ 0.32	....	....	C.	108	16	11.8	+ 2.2	....	....
1883.															
Feb. 22	W.	II	20	45	39.52	+ 0.05	....	....	C.	106	51	35.5	+ 0.9	....	....
25	R.	II	20	53	55.00	+ 0.39	....	....	.	106	56.1	....	....	....	....
26	W.	II	20	57	11.76	+ 0.17	....	....	C.	106	54	26.8	+ 0.3	....	....
28	S.	C.	21	4	26.30	+ 0.30	....	....	C.	106	46	40.4	+ 1.6	....	....
Mar. 4	S.	C.	21	21	8.44	+ 0.25	....	....	C.	106	13	14.7	+ 0.2	....	....
8	S.	C.	21	40	5.81	+ 0.12	....	....	C.	105	16	51.7	− 1.2	....	....
Apr. 2	R.	II	0	6	17.42	+ 0.11	....	....	C.	91	36	26.7	+ 2.6	....	....
3	W.	II	0	12	57.69	− 0.09	....	....	C.	90	48	34.1	+ 1.5	....	....
27	R.	I	3	7	32.33	− 0.30	....	....	C.	71	1	29.4	+ 3.5	....	....
May 3	E.	I	3	52	34.30	− 0.42	....	....	C.	67	34	48.0	+ 2.8	....	....
4	S.	C.	3	59	29.64	− 0.20	....	....	C.	67	9	4.6	+ 1.9	....	....
10	W.	I	4	36	13.11	− 0.10	....	....	S.	65	25	39.6	+ 2.8	....	....
12	S.	C.	4	46	22.61	− 0.28	...	....	C.	65	9	3.8	+ 1.6	....	....
16	S.	C.	5	3	9.03	− 0.25	....	....	C.	64	59	15.0	+ 0.1	....	....
19	E.		5	12.4	.....	....	....	....	C.	65	10	4.2	+ 1.9	....	....
24	S.	C.	5	21	1.10	− 0.37	....	....	C.	65	57	2.4	− 0.2	....	....
June 29	R.	II	5	5	25.25	− 0.30	....	....	C.	70	31	55.3	+ 2.1	....	....
July 1	E.	II	5	12	52.02	− 0.21	....	....	N.	70	1	7.8	+ 1.5	....	....
2	S.	C.	5	17	4.21	− 0.27	....	....	C.	69	45	0.5	+ 0.5	....	....
5	E.	II	5	31	36.09	− 0.14	....	....	.	68	55.7	....	...	....	....

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1883.			h	m	s	s	s	s		°	′	″	″	″	″
July 6	S.	C.	5	37	4.76	− 0.15	....	....	C.	68	39	31.3	+ 1.3	....	....
11	R.	II	6	9	6.15	− 0.11	....	....	C.	67	28	34.4	+ 0.1	....	....
15	R.	II	6	39	50.59	− 0.17	....	....	C.	66	55	55.0	+ 2.6	....	....
19	R.	II	7	14	3.79	− 0.25	....	....	C.	66	57	39.6	+ 0.9	....	....
Aug. 7	E.	I	9	47	30.23	− 0.14	....	....	C.	74	54	29.2	+ 0.2	....	....
8	R.	I	9	54	48.42	− 0.18	....	....	C.	75	35	42.1	+ 0.9	....	....
11	R.	I	10	15	49.14	− 0.17	....	....	C.	77	42	57.9	+ 1.7	....	....
21	R.	I	11	17	18.82	− 0.02	....	....	C.	85	2	6.7	+ 1.9	....	....
25	R.	I	11	38	48.87	0.00	....	....	C.	87	54	46.1	0.0	....	....
Sept. 6	R.	I	12	34	4.31	+ 0.03	....	....	C.	95	46	1.4	+ 0.3	....	....
Oct. 29	E.	II	13	21	27.16	+ 0.05	....	....	C.	96	24	14.7	− 0.4	....	....
30	S.	C.	13	27	6.89	+ 0.11	....	....	C.	97	1	22.5	− 0.7	....	....
Nov. 4	P.	II	13	56	32.71	+ 0.17	....	....	C.	100	13	49.3	+ 1.5	....	....
6	E.	II	14	8	39.76	+ 0.19	....	....	C.	101	31	5.5	+ 2.7	....	....
11	S.	C.	14	39	28.77	+ 0.38	....	....	C.	104	37	44.7	+ 2.3	....	....
16	P.	II	15	10	53.70	+ 0.26	....	....	C.	107	28	56.4	+ 1.4	....	....
Dec. 10	S.	C.	17	43	56.65	+ 0.30	....	....	C.	115	17	44.7	− 1.4	....	....
11	P.	C.	17	50	53.59	+ 0.38	....	....	C.	115	23	19.2	− 0.8	....	....
28	W.	I	19	45	54.99	− 0.06	....	....	C.	113	9	42.5	+ 0.1	....	....
1884.															
Feb. 1	W.	II	19	30	29.03	+ 0.34	....	....	C.	109	17	55.7	+ 2.0	....	....
14	E.	II	20	9	42.31	+ 0.32	....	....	C.	110	0	3.9	+ 0.3	....	....
April 4	S.	C.	1	18	36.57	+ 0.11	....	....	C.	81	55	42.2	− 2.8	....	....
5	P.	C.	1	26	8.48	− 0.03	....	....	C.	80	59	20.1	+ 2.5	....	....
26	W.	I	3	36	51.30	− 0.36	....	....	S.	67	47	23.0	+ 2.3	....	....
June 6	S.	C.	3	35	1.30	− 0.36	....	....	C.	74	45	35.9	+ 0.2	....	....
15	P.	II	4	6	50.05	− 0.16	....	....	C.	72	11	17.4	+ 0.9	....	....
16	W.	II	4	11	39.58	− 0.18	....	....	.	71	49	3.4	0.0	3.7	0.0
19	P.	II	4	27	41.44	− 0.07	....	....	C.	70	39	35.1	+ 0.9	....	....
20	W.	II	4	33	33.19	− 0.14	....	....	.	70	15	57.6	+ 1.6	4.2	+ 0.9
July 19	W.	C.	8	30	19.76	− 0.14	....	....	C.	69	10	11.9	− 0.2	....	....
21	S.	C.	8	46	48.16	− 0.18	....	....	C.	70	11	36.5	− 1.0	....	....
22	P.	C.	8	54	46.59	− 0.14	....	....	C.	70	44	30.9	− 0.6	....	....
23	W.	I	9	2	34.42	− 0.10	....	....	C.	71	18	43.0	+ 0.9	....	....
Aug. 13	E.	I	11	10	12.45	+ 0.02	....	....	C.	85	13	56.2	+ 0.8	....	....
14	W.	I	11	14	47.92	0.00	....	....	C.	85	53	8.4	+ 0.2	....	....
15	P.	I	11	19	15.86	+ 0.02	....	....	C.	86	31	52.3	+ 1.3	....	....
16	W.	I	11	23	36.05	+ 0.03	....	....	C.	87	10	0.3	− 0.4	....	....
19	P.	I	11	35	49.52	+ 0.18	....	....	C.	89	0	33.7	− 0.6	....	....
21	E.	I	11	43	16.52	+ 0.06	....	....	N.	90	10	21.8	+ 0.1	....	....
26	E.	I	11	59	8.02	− 0.14	....	....	N.	92	46	41.1	− 0.2	....	....
27	P.	I	12	1	46.11	+ 0.03	....	....	C.	93	14	7.1	+ 0.9	....	....
Sept. 2	E.	I	12	12	48.25	− 0.22	....	....	N.	95	21	22.3	+ 1.5	....	....
Oct. 5	P.	II	11	47	57.27	− 0.15	....	....	C.	86	54	57.3	− 0.7	....	....
9	P.	C.	12	7	58.33	+ 0.07	....	....	C.	88	44	44.4	− 0.1	....	....
13	P.	C.	12	30	57.44	+ 0.03	....	....	C.	91	11	23.0	− 0.4	....	....
22	P.	C.	13	26	14.75	+ 0.13	....	....	C.	97	30	37.0	+ 0.1	....	....
24	S.	C.	13	38	40.80	+ 0.16	....	....	C.	98	55	18.7	− 1.4	....	....
Nov. 11	P.	C.	15	25	5.13	+ 0.28	....	....	C.	109	19	13.3	− 1.8	....	....
15	P.	C.	15	50	42.50	+ 0.33	....	....	C.	111	10	40.0	+ 0.8	....	....
24	W.	C	16	49	38.13	+ 0.33	....	....	C.	114	17	51.0	+ 0.4	....	....
Dec. 4	S.	C	17	56	5.50	+ 0.36	....	....	C.	115	45	29.8	+ 0.1	....	....
9	P.	C	18	28	10.52	+ 0.28	....	....	C.	115	35	45.5	− 2.0	....	....
19	E.	I	19	20	23.57	+ 0.15	....	....	.	113	34.5	....	....	....	....
1885.															
Jan. 20	S.	C	18	32	57.74	+ 0.34	....	....	C.	111	21	1.8	+ 1.1	....	....
25	P.	II	18	52	4.01	+ 0.48	....	....	C.	111	52	42.8	+ 0.6	....	....
26	W.	II	18	56	35.36	+ 0.47	....	....	C.	111	56	45.4	− 1.8	....	....
28	S.	C	19	6	10.01	+ 0.33	....	....	C.	112	2	10.2	− 0.9	....	....

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1885.			h m s	s	s	s		° ′ ″	″	″	″
Feb. 11	E.	II	20 25 44.90	+0.42	....	....	C.	110 34 7.3	−1.1	....	....
18	P.	C	21 9 52.22	+0.38	....	....	C.	108 17 5.2	−0.2	....	....
27	W.	C	22 8 43.65	+0.35	....	....	C.	103 44 39.8	−0.7	....	....
Mar. 24	W.	I	0 55 50.23	+0.02	....	....	C.	83 49 53.0	+3.3	....	....
25	E.	I	1 2 46.69	−0.07	....	....	C.	82 54 6.9	+1.1	....	....
26	S.	C	1 9 37.60	0.00	....	....	C.	81 59 18.6	+2.0	....	....
Apr. 6	E.	I	2 12 17.09	−0.15	....	....	C.	73 59 32.7	+1.2	....	....
14	E.	I	2 33 56.15	−0.12	....	....	C.	71 42 25.0	+0.6	....	....
June 3	W.	II	3 21 3.78	−0.22	....	....	C.	74 15 57.8	−0.1	....	....
8	W.	II	3 52 24.76	−0.08	....	....	C.	71 41 1.9	+0.1	....	....
10	P.	II	4 6 30.20	−0.08	....	....	C.	70 38 50.6	−0.5	....	....
11	P.	II	4 13 53.49	−0.04	....	....	C.	70 8 18.7	+0.3	....	....
15	W.	II	4 45 42.77	−0.15	....	....	.	68 13.8	....	....	....
17	S.	C	5 2 55.68	−0.19	....	....	C.	67 23 54.2	−0.5	....	....
18	P.	II	5 11 49.92	−0.06	....	....	C.	67 1 30.1	+0.1	....	....
19	W.	.	5 20 54.48	−0.06	0.15	−0.04	C.	66 41 4.8	+1.3	....	....
21	S.	C	5 39 30.68	−0.27	....	....	C.	66 6 51.1	+1.6	....	....
July 1	P.	C	7 5 32.68	−0.26	....	....	C.	65 45 0.0	−0.1	....	....
8	S.	C	8 7 4.92	−0.25	....	....	C.	67 51 46.7	+0.9	....	....
15	E.	I	8 59 41.97	−0.15	....	....	C.	71 20 31.2	−0.8	....	....
16	S.	C	9 6 28.44	−0.06	....	....	C.	71 54 30.0	+0.7	....	....
18	W.	C	9 19 29.03	−0.18	....	....	C.	73 4 25.7	+0.6	....	....
21	P.	I	9 37 42.58	+0.08	....	....	C.	74 52 59.2	+0.4	....	....
22	W.	C	9 43 26.79	−0.02	....	....	C.	75 29 47.2	−1.1	....	....
24	S.	C	9 54 25.89	−0.11	....	....	C.	76 43 54.7	−1.5	....	....
25	P.	I	9 59 41.03	−0.02	....	....	C.	77 21 4.4	−1.3	....	....
31	E.	I	10 27 49.84	−0.15	....	....	N.	81 0 48.3	−1.1	....	....
Aug. 4	E.	I	10 43 19.30	−0.19	....	....	N.	83 18 56.4	−0.7	....	....
11	W.	I	11 3 17.67	−0.09	....	....	N.	86 46 47.2	−0.7	....	....
12	E.	I	11 5 17.42	−0.20	....	....	N.	87 11 22.0	+0.6	....	....
Sept. 16	W.	II	10 36 7.32	−0.05	....	....	S.	80 38 49.2	+1.8	....	....
18	P.	II	10 43 56.85	+0.02	....	....	C.	80 57 37.1	0.0	....	....
23	W.	II	11 9 46.49	−0.11	....	....	C.	82 49 52.9	+0.1	....	....
Oct. 22	W.	C	14 5 47.35	+0.29	....	....	C.	102 35 8.5	+1.6	....	....
26	W.	C	14 30 14.03	+0.32	....	....	C.	105 7 18.9	+0.2	....	....
27	E.	I	14 36 20.66	+0.20	....	....	C.	105 43 24.6	−1.9	....	....
Nov. 16	E.	I	16 40 16.40	−0.11	....	....	N.	114 26 50.3	+1.0	....	....
20	E.	.	17 4.9	....	....	....	C.	115 16 32.2	+0.8	....	....
1886.											
Jan. 19	S.	C	18 41 48.83	+0.33	....	....	C.	113 10 56.0	0.0	....	....
21	W.	C	18 53 55.67	+0.38	....	....	C.	113 12 47.6	+0.5	....	....
31	S.	C	19 57 48.84	+0.40	....	....	C.	112 8 12.2	0.0	....	....
Feb. 7	E.	II	20 44 32.18	+0.36	....	....	C.	110 3 37.0	−0.9	....	....
8	S.	C	20 51 17.79	+0.55	....	....	C.	109 40 14.1	−1.0	....	....
Mar. 4	E.	I	23 30 9.00	+0.01	....	....	C.	94 19 35.1	+2.3	....	....
5	S.	C	23 37 3.61	+0.05	....	....	C.	93 25 20.8	+0.7	....	....
6	P.	C	23 43 55.73	+0.09	....	....	C.	92 30 33.1	−0.4	....	....
11	W.	C	0 17 6.71	−0.01	....	....	C.	87 54 47.0	+2.9	...	....
24	E.	I	1 17 37.70	+0.02	....	....	S.	78 47 17.0	−1.2	....	....
June 19	W.	C.	6 32 56.60	−0.11	....	...	C.	65 0 11.3	+0.5	....	....
July 6	E.	I	8 42 37.42	−0.17	....	....	N.	70 31 34.3	−2.0	....	....
7	S.	C.	8 48 28.69	−0.16	....	....	C.	71 1 44.3	−1.1	....	....
17	W.	I	9 36 14.28	−0.06	....	....	C.	76 15 4.1	−1.2	....	....
19	S.	C.	9 43 21.93	−0.17	....	....	C.	77 15 36.0	+0.8	....	....
24	P.	I	9 57 17.96	−0.05	....	....	C.	79 34 39.0	−0.6	....	....
26	E.	I	10 1 10.82	−0.22	....	....	N.	80 23 1.4	−1.5	....	....
Aug. 3	E.	I	10 5 30.53	−0.30	....	....	N.	82 30 10.5	−1.8	....	....
4	E.	I	10 4 40.76	−0.35	....	....	N.	82 36 20.2	−2.8	....	....
31	S.	C.	9 33 27.60	0.13	....	....	C.	75 44 34.5	+1.1	....	....

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1886.			h	m	s	s	s	s		°	′	″	″	″	″
Sept. 16	S.	C.	11	10	17.21	− 0.14	....	....	C.	82	40	38.7	− 0.9	....	....
20	S.	C.	11	37	43.90	− 0.08	....	....	C.	85	40	57.4	− 0.4	....	....
Oct. 7	S.	C.	13	19	25.65	+ 0.10	....	....	C.	97	58	58.4	+ 0.2	....	....
9	W.	C.	13	31	24.57	+ 0.18	....	....	C.	99	24	29.7	+ 0.8	....	....
11	S.	C.	13	43	17.82	+ 0.10	....	....	C.	100	47	36.5	+ 2.5	....	....
13	W.	C.	13	55	6.91	+ 0.24	....	....	C.	102	8	3.6	+ 1.3	....	....
15	S.	C.	14	6	52.48	+ 0.16	....	....	C.	103	25	45.1	+ 1.4	....	....
22	S.	C.	14	47	46.86	+ 0.22	....	....	C.	107	33	25.8	+ 1.1	....	....
Nov. 5	P.	I	16	7	58.52	+ 0.50	....	....	C.	113	30	3.4	+ 0.3	....	....
16	S.	C.	17	0	24.60	+ 0.21	....	....	C.	115	17	22.1	− 0.1	....	....
19	P.	C.	17	9	16.77	+ 0.16	....	....	C.	115	12	40.5	+ 0.9	....	....
Dec. 20	E.	II	16	26	3.27	+ 0.22	....	....	C.	109	28	27.6	− 0.1	....	....
1887.															
Jan. 10	S.	C.	18	24	4.39	+ 0.49	....	....	C.	113	54	22.9	− 0.2	....	....
11	P.	C.	18	30	37.90	+ 0.44	....	....	C.	113	56	49.7	− 3.0	....	....
24	W.	C.	19	58	57.58	+ 0.35	....	....	C.	112	28	34.4	− 0.1	....	....
26	S.	C.	20	12	52.61	+ 0.18	....	....	.	111	53.8	....	....	....	....
Feb. 17	W.	I	22	39	36.05	+ 0.21	....	....	C.	99	52	29.4	− 0.9	....	....
24	S.	C.	23	25	1.40	+ 0.04	....	....	C.	93	56	48.2	+ 2.0	....	....
28	S.	C.	23	47	20.24	+ 0.04	....	....	C.	90	36	37.0	+ 0.1	....	....
Mar. 1	P.	C.	23	52	14.04	+ 0.10	....	....	C.	89	49	45.8	+ 0.7	....	....
8	S.	C.	0	15	29.25	+ 0.15	....	....	C.	85	34	33.7	+ 0.2	....	....
Apr. 20	S.	C.	0	19	0.07	+ 0.12	....	....	C.	90	48	36.2	− 1.5	....	....
May 11	P.	C.	2	14	31.68	+ 0.15	....	....	C.	78	30	6.5	− 1.2	....	....
13	E.	II	2	28	40.90	+ 0.03	....	....	N.	77	1	49.6	− 0.5	....	....
June 16	E.	I	7	10	18.86	− 0.30	....	....	C.	65	34	55.4	− 0.7	....	....
18	P.	C.	7	24	0.78	+ 0.01	....	....	C.	66	7	16.0	− 0.5	....	....
21	S.	C.	7	42	54.33	− 0.29	....	....	C.	67	5	7.3	− 0.8	....	....
24	E.	I	7	59	47.73	− 0.19	....	....	C.	68	11	29.1	− 0.4	....	....
28	S.	C.	8	19	6.84	− 0.17	....	....	C.	69	48	10.4	− 0.5	....	....
30	S.	C.	8	27	20.61	− 0.37	....	....	C.	70	38	10.6	− 0.6	....	....
July 11	E.	I	8	54	3.47	− 0.46	....	....	N.	74	50	54.3	− 1.6	....	....
12	S.	C.	8	54	46.54	− 0.41	....	....	C.	75	8	57.1	− 1.8	....	....
14	W.	I	8	55	17.03	− 0.42	....	....	C.	75	40	59.1	− 1.8	....	....
Aug. 10	W.	II	8	12	56.31	− 0.28	....	....	C.	72	28	51.0	− 0.6	....	....
18	W.	II	8	41	56.27	− 0.01	....	....	C.	71	56	26.6	+ 0.6	....	....
19	W.	II	8	47	29.14	− 0.32	....	....	C.	72	3	17.4	+ 0.7	....	....
24	W.	II	9	19	50.71	− 0.17	....	....	C.	73	20	33.7	− 0.2	....	....
28	W.	II	9	49	8.19	− 0.21	....	....	C.	75	12	15.5	− 1.7	....	....
30	W.	II	10	4	10.66	− 0.31	....	....	C.	76	22	12.5	+ 0.5	....	....
Sept. 4	S.	C.	10	41	24.72	− 0.09	....	....	C.	80	46	25.1	+ 0.9	....	....
5	W.	.	10	48.7	....	....	....	....	C.	80	30	49.3	− 0.9	....	....
Oct. 6	P.	C.	13	53	46.42	+ 0.24	....	....	C.	102	48	23.0	+ 1.1	....	....
7	W.	C.	13	59	15.33	+ 0.28	....	....	C.	103	25	36.1	+ 3.0	....	....
12	S.	C.	14	26	15.78	+ 0.25	....	....	C.	106	19	36.8	+ 1.9	....	....
13	P.	C.	14	31	34.49	+ 0.12	....	....	C.	106	51	51.5	+ 1.8	....	....
21	E.	II	15	12	27.12	+ 0.16	....	....	C.	110	33	55.5	+ 1.5	....	....
22	S.	C.	15	17	15.59	+ 0.36	....	....	C.	110	56	38.0	+ 2.3	....	....
Nov. 2	P.	C.	15	59	9.27	+ 0.16	....	....	C.	113	26	29.8	+ 1.0	....	....
3	W.	I	16	1	16.12	+ 0.27	....	....	C.	113	28	40.5	+ 0.8	....	....
28	S.	C.	15	5	36.85	+ 0.32	....	....	C.	104	44	23.7	+ 1.0	....	....
29	P.	II	15	7	31.58	+ 0.27	....	....	C.	104	52	43.8	− 0.1	....	....
Dec. 4	E.	II	15	23	38.19	+ 0.23	....	....	S.	106	13	36.8	+ 1.1	....	....
5	P.	C.	15	27	51.95	+ 0.27	....	....	C.	106	34	53.7	+ 0.5	....	....
6	S.	C.	15	32	20.68	+ 0.12	....	....	C.	106	57	7.2	− 0.6	....	....
12	P.	C.	16	3	12.56	+ 0.17	....	....	C.	109	18	5.9	− 0.9	....	....
15	E.	II	16	20	27.05	+ 0.17	....	....	C.	110	26	12.9	+ 0.5	....	....
21	W.	C.	16	57	14.50	+ 0.39	....	....	C.	112	24	3.4	− 0.7	....	....
28	W.	C.	17	42	53.29	+ 0.46	....	....	C.	113	57	17.8	− 0.4	....	....

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1887.			h m s	s	s	s		° ′ ″	″	″	″
Dec. 29	S.	C.	17 49 35.67	+ 0.56	....	....	C.	114 6 2.4	+ 0.8	....	....
1888.											
Jan. 13	S.	C.	19 33 50.47	+ 0.48	....	....	C.	113 36 36.9	— 0.2	....	....
28	W.	C.	21 13 20.59	+ 0.21	....	....	C.	108 6 52.0	+ 0.2	....	....
Feb. 18	P.	I	23 11 30.45	+ 0.13	....	....	C.	93 31 38.4	+ 0.9	....	....
June 18	E.	I	7 30 20.26	— 0.41	....	....	C.	68 24 19.6	+ 1.5	....	....
July 24	E.	II	7 1 31.47	— 0.24	....	....	C.	70 12 27.8	+ 0.3	....	....
Aug. 1	W.	II	7 34 7.48	— 0.21	....	....	C.	69 10 55.0	+ 0.7	....	....
6	P.	C.	8 6 39.28	— 0.12	....	....	C.	69 27 12.6	+ 1.6	....	....
7	W.	II	8 14 0.58	— 0.08	....	....	C.	69 37 48.0	+ 2.3	....	....
8	E.	II	8 21 34.69	— 0.14	....	....	C.	69 51 1.3	+ 0.8	....	....
9	P.	C.	8 29 19.83	— 0.09	....	....	C.	70 6 59.3	+ 1.8	....	....
13	W.	II	9 1 29.32	— 0.15	....	....	C.	71 37 22.6	+ 1.4	....	....
30	S.	C.	11 3 13.45	+ 0.07	....	....	C.	82 21 41.0	+ 1.6	....	....
Sept. 12	S.	C.	12 23 13.51	+ 0.18	....	....	C.	92 22 54.9	+ 1.7	....	....
13	P.	C.	12 28 51.05	+ 0.16	....	....	C.	93 7 12.8	+ 2.0	....	....
14	W.	C.	12 34 25.08	+ 0.23	....	....	C.	93 51 2.9	+ 1.9	....	....
20	W.	I	13 6 39.48	+ 0.14	....	....	C.	98 3 3.9	+ 3.3	....	....
21	S.	C.	13 11 51.14	+ 0.21	....	....	.	98 42.9	....	....	....
Oct. 4	S.	C.	14 14 9.24	+ 0.07	....	....	C.	106 10 8.4	+ 1.7	....	....
10	S.	C.	14 37 40.61	+ 0.28	....	....	C.	108 35 16.1	+ 2.6	....	....
Nov. 21	E.	II	14 42 11.03	+ 0.23	....	....	C.	103 36 15.2	+ 2.1	....	....
29	S.	C.	15 27 0.91	+ 0.16	....	....	C.	107 34 36.6	+ 2.4	....	....
Dec. 6	W.	C.	16 10 21.16	+ 0.21	....	....	C.	110 41 52.6	+ 0.6	....	....
11	S.	C.	16 42 47.73	+ 0.32	....	....	C.	112 29 45.4	+ 0.4	....	....
12	W.	C.	16 49 24.61	+ 0.38	....	....	.	112 48.2	....	....	....
13	S.	C.	16 56 3.60	+ 0.19	....	....	C.	113 5 36.0	+ 2.4	....	....
17	S.	C.	17 23 2.98	+ 0.52	....	....	C.	114 3 20.0	+ 2.4	....	....
1889.											
Jan. 10	W.	C.	20 5 35.07	+ 0.32	....	....	C.	112 28 23.8	— 0.5	....	....
18	W.	C.	21 0 52.12	+ 0.29	....	....	C.	108 46 12.9	+ 1.3	....	....
19	S.	C.	21 7 25.85	+ 0.21	....	....	C.	108 12 6.4	+ 0.2	....	....
22	S.	C.	21 26 18.09	+ 0.24	....	....	C.	106 23 21.2	+ 0.2	....	....
23	E.	I	21 32 14.53	+ 0.06	....	....	C.	105 45 26.1	+ 1.4	....	....
30	S.	C.	22 5 49.41	+ 0.01	....	....	C.	101 19 48.9	+ 2.3	....	....
Feb. 1	E.	I	22 11 39.23	+ 0.15	....	....	C.	100 13 53.9	+ 0.6	....	....
2	S.	C.	22 13 43.44	+ 0.02	....	....	C.	99 44 40.9	+ 1.7	....	....
7	S.	C.	22 14 29.47	+ 0.14	....	....	C.	98 12 0.1	+ 0.8	....	....
Mar. 10	W.	II	21 45 8.55	+ 0.25	....	....	C.	104 6 23.9	— 0.8	....	....
11	S.	C.	21 48 59.84	+ 0.13	....	....	C.	103 57 5.2	— 2.3	....	....
22	W.	II	22 40 17.84	+ 0.25	....	....	C.	100 35 56.1	0.0	....	....
25	W.	II	22 56 20.01	+ 0.24	....	....	C.	99 12 2.0	— 1.1	....	....
26	E.	II	23 1 49.70	+ 0.23	....	....	C.	98 41 31.1	— 0.8	....	....
28	W.	C.	23 13 1.88	+ 0.25	....	....	C.	97 36 45.2	— 0.9	....	....
29	E.	II	23 18 44.10	+ 0.17	....	....	C.	97 2 32.8	— 0.7	....	....
Apr. 9	S.	C.	0 26 8.33	+ 0.15	....	....	C.	89 31 47.2	+ 0.5	....	....
May 6	S.	C.	3 47 16.53	— 0.19	....	....	C.	68 25 44.2	+ 2.4	....	....
7	W.	C.	3 55 24.34	— 0.11	....	....	C.	67 53 0.3	+ 2.2	....	....
17	E.	I	5 7 37.09	— 0.33	....	....	S.	64 43 4.1	0.0	....	....
18	S.	C.	5 13 39.53	— 0.18	....	....	C.	64 36 44.4	+ 1.1	....	....
29	E.	I	6 1 47.56	— 0.34	....	....	C.	65 16 51.3	+ 1.7	....	....
July 7	S.	C.	5 45 20.72	— 0.18	....	....	C.	70 1 28.6	+ 1.7	....	....
11	S.	C.	5 59 5.10	— 0.14	....	....	C.	69 9 12.4	+ 1.6	....	....
Aug. 21	S.	C.	10 55 6.85	— 0.06	....	....	C.	81 51 52.7	+ 2.2	....	....
Nov. 3	E.	II	13 34 3.40	+ 0.06	....	....	S.	97 28 41.3	+ 2.0	....	....
5	H.	II	13 44 13.21	+ 0.08	....	....	S.	98 32 5.8	— 0.3	....	....
15	E.	II	14 41 46.94	+ 0.12	....	....	C.	104 24 48.4	+ 1.1	....	....
25	S.	C.	15 44 30.63	+ 0.51	....	....	C.	109 42 16.0	— 0.2	....	....
29	H.	C.	16 10 31.55	+ 0.31	....	....	C.	111 25 31.3	+ 0.9	....	....

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1889.			h	m	s	s	s	s		°	′	″	″	″	″
Dec. 24	E.	I	18	56	7.32	+ 0.32	....	....	C.	114	59	0.4	− 0.1	....	....
28	H.	I	19	24	14.42	+ 0.35	....	....	C.	114	14	0.6	− 1.1	....	....
1890.															
Apr. 1	S.	C.	0	24	43.60	− 0.05	....	....	C.	89	8	39.6	+ 0.8	....	....
2	H.	C.	0	31	47.31	− 0.06	....	....	C.	88	16	6.4	− 1.8	....	....
4	S.	C.	0	46	8.96	+ 0.09	....	....	C.	86	28	47.1	− 0.9	....	....
11	S.	C.	1	31	4.16	− 0.07	....	....	C.	80	55	30.8	+ 0.3	....	....
18	H.	C.	2	25	40.27	− 0.21	....	....	C.	74	40	27.1	+ 1.6	....	....
19	S.	C.	2	33	25.61	− 0.17	....	....	C.	73	51	48.2	+ 2.5	....	....
21	H.	C.	2	48	42.63	− 0.27	....	....	C.	72	20	8.1	+ 1.3	....	....
28	S.	C.	3	37	46.44	− 0.34	....	....	C.	68	11	50.9	0.0	....	....
29	E.	I	3	43	59.28	− 0.23	....	....	S.	67	46	23.6	+ 1.4	....	....
May 1	E.	I	3	55	40.16	− 0.30	....	....	S.	67	2	54.8	+ 1.1	....	....
2	S.	C.	4	1	6.98	− 0.30	....	....	C.	66	44	49.8	+ 0.7	....	....
13	E.	I	4	40	49.73	− 0.52	....	....	C.	65	50	44.0	+ 1.1	....	....
June 11	E.	II	4	12	58.19	− 0.39	....	....	C.	73	8	14.5	+ 0.9	....	....
19	S.	C.	4	25	44.19	− 0.23	....	....	C.	72	9	55.0	− 2.0	....	....
July 4	H.	II	5	40	34.50	− 0.20	....	....	C.	67	44	36.6	− 0.2	....	....
6	E.	II	5	55	26.35	− 0.10	....	....	C.	67	14	59.4	− 1.1	....	....
7	S.	C.	6	3	15.83	− 0.12	....	....	C.	67	2	25.6	+ 1.6	....	....
9	E.	II	6	19	38.14	− 0.17	....	....	C.	66	42	36.0	+ 1.4	....	....
10	S.	C.	6	28	8.88	− 0.20	....	....	C.	66	35	45.8	+ 1.0	....	....
Aug. 1	H.	.	9	31.0	....	....	....	....	C.	73	30	55.8	+ 0.5	....	....
7	E.	I	10	13	0.19	− 0.16	....	....	C.	77	35	59.3	− 0.1	....	....
12	E.	I	10	44	3.52	− 0.05	....	....	C.	81	10	13.1	+ 0.1	....	....
13	S.	C.	10	49	53.19	+ 0.02	....	....	C.	81	53	16.2	− 1.2	....	....
16	E.	I	11	6	39.36	− 0.06	....	....	C.	84	1	57.5	+ 0.5	....	....
30	E.	.	12	11.8	....	....	....	....	C.	93	16	45.6	+ 0.6	....	....
Sept. 1	S.	C.	12	19	13.69	+ 0.05	....	....	C.	94	24	51.0	+ 0.9	....	.. .
3	H.	I	12	26	5.72	− 0.06	....	....	N.	95	28	39.7	− 0.5	....	....
19	S.	C.	12	48	56.56	− 0.17	....	....	C.	99	32	42.5	+ 1.3	....	....
Oct. 7	H.	II	12	1	54.37	+ 0.08	....	....	S.	89	42	7.2	+ 1.9	....	....
14	E.	II	12	18	10.66	− 0.02	....	....	S.	90	1	1.3	+ 1.4	....	....
16	E.	II	12	26	49.85	0.00	....	....	S.	90	46	16.0	+ 1.0	....	....
17	S.	C.	12	31	36.22	+ 0.08	....	....	C.	91	13	39.4	+ 0.7	....	....
24	S.	C.	13	10	3.52	− 0.02	....	....	C.	95	20	56.2	− 0.2	....	....
29	E.	II	13	40	7.66	+ 0.18	....	....	C.	98	42	53.0	+ 1.1	....	....
Nov. 4	S.	C.	14	17	7.16	+ 0.23	....	....	C.	102	41	39.4	− 2.3	....	....
24	S.	C.	16	18	29.57	+ 0.42	....	....	C.	112	30	38.9	+ 0.7	....	....
29	E.	I	16	51	51.85	+ 0.35	....	....	C.	114	4	53.4	− 0.2	....	....
Dec. 4	S.	C.	17	25	49.14	+ 0.35	....	....	C.	115	8	0.8	+ 1.8	....	....
9	H.	C.	18	0	5.37	+ 0.08	....	....	C.	115	36	57.5	− 2.2	....	....
15	S.	C.	18	40	50.26	+ 0.25	....	....	C.	115	23	26.6	+ 0.6	....	....
19	H.	C.	19	6	54.74	+ 0.34	....	....	C.	114	44	21.4	+ 1.1	....	....
22	H.	C.	19	25	13.84	+ 0.28	....	....	C.	113	59	59.8	− 0.4	....	....
24	S.	C.	19	36	30.91	+ 0.29	....	....	C.	113	24	7.8	+ 0.3	....	....
29	E.	I	19	59	29.85	+ 0.30	....	....	C.	111	39	2.9	− 1.2	....	....
1891.															
Jan. 29	E.	II	19	9	5.22	+ 0.22	....	....	C.	110	37	55.6	− 0.3	....	....
Mar. 4	S.	C.	22	9	27.52	+ 0.32	....	....	C.	103	41	3.7	− 0.2	....	....
9	H.	C	22	41	58.53	+ 0.20	....	....	C.	100	35	51.6	+ 0.6	....	....
13	H.	C.	23	8	38.04	+ 0.14	...	....	C.	97	44	54.0	+ 0.9	....	....
Apr. 7	H.	C.	1	59	24.22	− 0.25	....	....	C.	76	27	20.8	− 4.3	....	....
13	S.	C.	2	36	23.09	− 0.24	....	....	C.	72	19	21.0	− 1.4	....	....
20	S.	C.	3	7	3.49	− 0.18	....	....	C.	69	29	59.2	− 1.5	....	....
27	E.	I	3	20	37.04	− 0.35	....	....	C.	68	56	15.4	− 2.0	....	....
June 9	H.	II	3	38	50.38	− 0.11	....	....	N.	73	38	58.3	+ 0.1	....	....
10	E.	II	3	43	46.97	− 0.20	....	....	N.	73	14	17.3	− 0.4	....	....
14	S.	C.	4	5	54.85	− 0.06	....	....	C.	71	29	56.5	− 0.4	....	....

MERCURY—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1891.			h m s	s	s	s		° ′ ″	″	″	″
June 15	E.	II	4 12 2.53	— 0.15	....	....	N.	71 3 5.8	— 0.2	....	....
16	S.	C.	4 18 24.98	— 0.05	....	....	C.	70 36 15.6	— 1.6	....	....
22	S.	C.	5 1 49.48	— 0.02	....	....	C.	68 3 32.7	— 0.2	....	....
23	E.	II	5 9 54.56	— 0.07	....	....	C.	67 41 13.6	— 1.7	....	....
24	S.	C.	5 18 13.26	— 0.24	....	....	C.	67 20 17.8	— 2.2	....	....
25	E.	II	5 26 45.36	— 0.13	....	....	C.	67 0 59.6	— 3.3	....	....
28	E.	II	5 53 31.24	— 0.13	....	....	C.	66 14 42.4	— 1.8	....	....

OBSERVATIONS OF VENUS.

1866–1891.

VENUS.

Date.		Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1866.				h	m	s	s	s	s	s		°	′	″	″	″	″	″
May	4	H.	C.	3	55	48.08	− 0.19	−0.21	....	....	C.	69	20	26.8	0.0	+ 1.8	....	....
	5	T.	I	4	0	54.51	− 0.01	−0.03	....	....	C.	69	3	5.8	− 2.0	− 0.2	....	....
	12	T.	I	4	37	6.50	− 0.15	−0.17	....	....	.	67	18	26.3	− 1.9	− 0.2	4.8	− 0.6
	19	T.	I	5	14	0.80	− 0.02	−0.02	....	....	.	66	5	3.9	− 0.7	+ 0.8	6.6	+ 1.0
	22	H.	.	5	29	58.59	− 0.16	−0.18	0.43	+0.03	.	65	43	49.1	− 1.4	0.0	5.6	+ 0.1
	24	N.	.	5	40	39.15	− 0.16	−0.20	0.38	−0.03	C.	65	33	11.4	− 0.7	+ 0.7	....	....
	25	H.	.	5	45	59.93	− 0.01	−0.05	0.42	+0.01	.	65	28	56.6	− 0.3	+ 1.0	5.8	+ 0.3
	28	N.	.	6	[illegible]	2.86	+ 0.03	−0.04	0.46	+0.05	.	65	20	27.8	− 1.7	− 0.5	6.1	+ 0.5
	30	T.	I	6	12	44.83	− 0.16	−0.23	....	....	.	65	18	27.4	− 0.4	+ 0.8	5.2	− 0.4
June	6	H.	.	6	50	5.36	+ 0.14	+0.06	0.43	+0.01	.	65	34	4.0	− 0.3	+ 0.9	6.0	+ 0.2
	11	N.	.	7	16	30.35	− 0.08	−0.17	0.40	−0.03	.	66	6	32.8	− 0.1	+ 0.9	6.2	+ 0.3
	13	H.	.	7	26	59.12	+ 0.03	−0.06	0.47	−0.04	.	66	24	23.1	+ 0.5	+ 1.4	6.3	+ 0.4
	20	T.	I	8	3	7.50	− 0.15	−0.23	....	....	.	67	47	32.4	+ 0.2	+ 0.9	6.3	+ 0.2
	21	N.	.	8	8	12.82	+ 0.03	−0.05	0.40	−0.04	.	68	1	56.9	+ 0.2	+ 0.8	5.7	− 0.4
	22	R.	I	8	13	16.75	+ 0.06	−0.02	....	....	N.	68	16	58.0	+ 0.4	+ 1.0	....	....
	23	H.	.	8	18	19.32	+ 0.03	−0.05	0.48	+0.04	.	68	32	35.3	+ 1.2	+ 1.8	8.1	+ 2.0
	30	N.	.	8	52	59.75	+ 0.09	0.00	0.50	+0.05	.	70	37	37.8	+ 2.0	+ 2.2	7.3	+ 1.0
July	3	R.	I	9	7	30.31	+ 0.06	−0.04	....	....	N.	71	39	3.8	+ 1.6	+ 1.7	....	....
	7	H.	.	9	26	31.42	0.00	−0.11	0.44	−0.01	.	73	7	35.5	+ 2.6	+ 2.5	6.4	− 0.1
	11	T.	I	9	45	10.26	− 0.12	−0.24	....	....	.	74	42	54.4	+ 0.2	− 0.2	7.6	+ 0.9
	12	R.	I	9	49	46.80	+ 0.07	−0.05	....	....	N.	75	7	44.4	+ 1.4	+ 0.9	....	....
	13	H.	.	9	54	21.81	+ 0.04	−0.08	0.51	+0.04	.	75	32	55.5	+ 1.5	+ 0.9	8.1	+ 1.3
	14	T.	I	9	58	55.47	+ 0.01	−0.11	....	....	.	75	58	28.0	+ 1.7	+ 1.1	6.8	0.0
	18	T.	I	10	16	57.46	+ 0.04	−0.06	....	....	.	77	43	54.3	+ 0.5	− 0.1	7.4	+ 0.5
	24	R.	I	10	43	24.29	+ 0.10	+0.03	....	....	N.	80	30	42.1	+ 1.0	+ 0.4	....	....
	26	N.	.	10	521	....	....	....	....	....	.	81	28	11.6	+ 0.1	− 0.5	7.0	− 0.2
	27	H.	.	10	56	22.87	+ 0.08	+0.03	0.52	+0.03	.	81	57	16.8	+ 1.8	+ 0.8	7.0	− 0.3
	28	T.	I	11	0	40.26	− 0.02	−0.12	....	....	.	82	26	32.3	+ 2.3	+ 1.2	5.3	− 2.0
	30	N.	.	11	9	12.61	+ 0.02	−0.06	0.52	+0.02	.	83	25	34.7	+ 3.0	+ 1.7	8.3	+ 0.9
	31	T.	I	11	13	27.36	− 0.06	−0.13	....	....	S.	83	55	19.5	+ 2.5	+ 1.4	....	....
Aug.	3	T.	I	11	26	6.97	0.00	−0.06	....	....	.	85	25	23.9	+ 1.4	+ 0.2	7.7	+ 0.1
	11	T.	I	11	59	22.88	+ 0.09	−0.01	....	....	.	89	29	53.3	+ 4.3	+ 2.5	8.0	0.0
	17	H.	.	12	23	58.81	− 0.04	−0.14	0.71	+0 14	.	92	34	37.7	+ 4.0	+ 2.0	9.5	+ 1.1
	18	T.	I	12	28	3.46	− 0.18	−0.29	....	....	.	93	5	20.8	+ 3.9	+ 1.9	7.1	+ 1.4
	20	H.	.	12	36	12.47	+ 0.09	0.00	0.48	−0.09	.	94	6	38.9	+ 5.0	+ 2.9	10.9	+ 2.3
	22	T.	I	12	44	20.11	− 0.06	−0.16	....	....	N.	95	7	36.9	+ 3.2	+ 1.0	....	....
	24	H.	I	12	52	27.33	+ 0.09	−0.04	....	....	.	96	8.2	....	....	....	....	....
Sept.	5	T.	I	13	41	5.91	+ 0.01	−0.15	....	....	.	101	59	49.1	+ 3.1	+ 0.6	9.9	+ 0.1
	8	T.	I	13	53	17.09	− 0.03	−0.20	....	....	.	103	23	9.4	+ 3.9	+ 0.9	9.4	− 0.6
	12	T.	I	14	9	33.96	+ 0.12	−0.05	....	....	.	105	10	32.5	+ 4.4	+ 1.7	10.9	+ 0.5
	14	T.	I	14	17	42.99	+ 0.04	−0.16	....	....	.	106	2	25.2	+ 2.8	+ 0.1	10.8	+ 0.2
	22	N.	I	14	50	21.29	+ 0.13	−0.09	....	....	.	109	16	17.2	+ 3.7	+ 1.3	11.7	+ 0.2
Oct.	3	H.	I	15	34	56.10	+ 0.07	−0.20	....	....	.	113	0.1	....	....	....	....	....
	5	H.	I	15	42	55.89	+ 0.04	−0.29	....	....	.	113	34	57.8	+ 7.8	+ 5.8	15.0	+ 1.7
	6	N.	I	15	46	54.85	+ 0.34	−0.01	....	....	.	113	51.4	....	....	....	....	....
	8	N.	I	15	54	49.27	+ 0.32	−0.02	....	....	.	114	23	13.4	+ 5.0	+ 3.2	14.3	+ 0.5
	9	R.	I	15	58	44.84	+ 0.38	+0.05	....	....	N.	114	38	18.1	+ 4.5	+ 2.9	....	....
	15	N.	I	16	21	46.55	+ 0.27	−0.06	....	....	.	115	57	48.9	+ 3.7	+ 2.3	14.9	− 0.2
	16	R.	I	16	25	30.28	+ 0.20	−0.12	....	....	N.	116	9	12.8	+ 3.9	+ 2.9	....	....
	17	H.	I	16	29	11.77	+ 0.17	−0.15	....	....	N.	116	20	2.9	+ 2.7	+ 1.7	....	....
	18	R.	I	16	32	50.94	+ 0.22	−0.10	....	....	N.	116	30	21.2	+ 2.2	+ 1.1	....	....
	19	H.	I	16	36	27.53	+ 0.30	−0.01	....	....	.	116	40	6.8	+ 1.7	+ 0.6	16.0	0.0
	20	N.	I	16	40	1.34	+ 0.40	+0.08	....	....	.	116	49.3	....	....	....	....	....
	23	R.	I	16	50	23.84	+ 0.20	−0.11	....	....	N.	117	13	47.4	+ 3.2	+ 2.6	....	....
	24	H.	I	16	53	44.60	+ 0.16	−0.13	....	....	.	117	20	49.1	+ 1.7	+ 1.2	18.2	+ 1.0
Nov.	5	N.	I	17	28	0.18	+ 0.54	+0.23	....	....	.	118	3	35.1	− 2.2	− 0.6	19.3	− 1.7
	6	R.	I	17	30	14.28	+ 0.29	0.00	....	....	N.	118	3	46.4	− 0.3	+ 0.8	....	....
	7	T.	I	17	32	21.38	− 0.01	−0.28	....	....	.	118	3	25.2	+ 0.1	+ 1.2	21.6	+ 0.2
	8	R.	I	17	34	21.65	+ 0.13	−0.14	....	....	N.	118	2	33.7	+ 0.9	+ 2.1	....	....

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
			h m s	s	s	s	s		° ′ ″	″	″	″	″
1866. Nov. 10	T.	I	17 37 58.90	+ 0.14	−0.14	....	....	.	117 59 14.2	− 0.9	+ 0.5	21.9	− 0.5
12	N.	I	17 41 3.59	+ 0.33	+0.08	....	....	.	117 53 53.5	+ 0.4	+ 1.5	23.8	+ 0.6
13	R.	I	17 42 22.82	+ 0.37	+0.13	....	....	N.	117 50 23.1	− 2.6	− 1.4	25.9	− 1.0
21	T.	I	17 47 5.84	+ 0.22	+0.08	....	....	.	117 3 18.9	− 4.0	− 1.3	....	....
22	R.	I	17 45 54.06	+ 0.08	−0.05	....	....	N.	116 54 53.9	− 3.0	− 0.1	....	....
26	T.	I	17 44 19.41	+ 0.31	+0.22	....	....	N.	116 17 7.8	− 0.1	+ 2.0	....	....
30	H.	I	17 38 58.03	+ 0.14	+0.14	....	....	.	115 25.8	....	....	....	....
Dec. 3	R.	I	17 33 21.68	+ 0.33	+0.27	....	....	N.	114 41 10.9	− 6.0	− 1.7	....	....
5	N.	I	17 29 1.13	+ 0.46	+0.43	....	....	N.	114 9 4.0	− 6.3	− 2.3	....	....
17	T.	II	16 57 54.00	+ 0.45	+0.39	....	....	S.	110 17 57.7	− 8.7	− 4.4	....	....
18	R.	II	16 55 54.68	+ 0.47	+0.45	....	....	S.	110 1 32.5	− 7.4	− 2.8	....	....
19	T.	II	16 54 2.84	+ 0.35	+0.35	....	....	S.	109 45 43.4	− 6.1	− 1.1	....	....
1867. Jan. 11	T.	.	16 54.6	....	....	....	....	S.	107 22 15.2	− 3.1	− 1.7	....	....
16	T.	II	17 4 33.97	+ 0.51	+0.43	....	....	.	107 37 2.3	− 3.7	− 2.7	20.8	+ 0.5
17	H.	II	17 6 52.80	+ 0.45	+0.36	....	....	S.	107 41 2.6	− 1.7	− 0.7	....	....
18	T.	II	17 9 17.39	+ 0.20	+0.09	....	....	S.	107 45 17.9	0.0	+ 0.9	....	....
21	H.	II	17 17 5.96	+ 0.35	+0.22	....	....	.	107 59 9.5	− 0.4	0.0	18.9	+ 0.2
22	T.	II	17 19 52.61	+ 0.20	+0.08	....	....	S.	108 4 4.8	+ 0.3	+ 0.7	....	....
23	N.	II	17 22 44.46	+ 0.23	+0.11	....	....	.	108 9 3.8	− 0.7	− 0.4	18.7	+ 0.5
28	H.	II	17 38 13.07	+ 0.20	+0.08	....	....	.	108 34 24.8	+ 0.4	− 0.1	17.8	+ 1.0
29	T.	II	17 41 31.67	+ 0.31	+0.18	....	....	.	108 39 20.8	− 0.2	− 0.6	17.3	+ 0.7
31	H.	II	17 48 20.15	+ 0.26	+0.13	....	....	.	108 48 54.0	0.0	− 0.3	15.7	− 0.4
Feb. 26	T.	II	19 33 11.79	+ 0.09	+0.03	....	....	N.	109 7 26.7	+ 0.8	− 0.8	....	....
Mar. 10	N.	II	20 27 6.50	− 0.05	−0.01	....	....	.	107 35 45.6	− 0.6	− 2.9	10.0	− 0.4
14	H.	II	20 45 17.05	− 0.07	−0.01	....	....	.	106 49 21.2	+ 0.5	− 1.5	9.4	− 0.6
17	N.	.	20 58 55.73	+ 0.04	+0.10	0.68	0.00	.	106 9 28.6	+ 1.1	− 0.7	9.8	+ 0.1
28	H.	.	21 48.8	....	....	....	....	S.	103 8 19.9	+ 2.6	+ 0.3	....	....
29	T.	II	21 53 17.13	− 0.08	−0.01	....	....	N.	102 49 19.1	+ 1.0	− 1.0	....	....
Apr. 1	H.	.	22 6.8	....	....	....	....	.	101 50 5.0	+ 1.9	− 0.1	9.8	+ 1.1
8	H.	II	22 38 0.08	+ 0.06	+0.07	....	....	.	99 19 41.3	+ 1.6	− 0.3	7.7	− 0.5
14	N.	.	23 4 31.57	+ 0.07	+0.10	0.50	−0.03	.	96 59 14.0	+ 1.6	− 0.2	7.6	− 0.3
18	N.	.	23 22 6.34	+ 0.08	+0.11	0.49	−0.03	.	95 20 46.2	+ 1.0	− 0.8	8.0	+ 0.3
21	N.	.	23 35 15.04	0.00	+0.01	0.51	0.00	N.	94 4 52.0	+ 1.3	− 0.5	....	....
22	H.	.	23 39 37.54	− 0.09	−0.08	0.56	+0.06	.	93 39 13.9	+ 2.0	+ 0.2	8.5	+ 1.0
25	H.	.	23 52 44.72	+ 0.04	0.00	0.62	+0.13	.	92 21 25.0	+ 1.9	+ 0.3	8.1	+ 0.7
May 15	N.	.	1 20 34.01	− 0.03	+0.01	0.47	+0.02	.	83 29 14.5	+ 0.9	+ 0.3	6.8	+ 0.2
16	H.	.	1 25 0.97	+ 0.02	+0.05	0.53	+0.08	.	83 2 56.2	+ 0.7	+ 0.1	7.2	+ 0.6
17	T.	II	1 29 28.55	+ 0.10	+0.13	....	....	N.	82 36 44.4	+ 0.4	− 0.1	....	....
28	H.	.	2 19 17.66	+ 0.12	+0.16	0.52	+0.10	.	77 59 1.7	− 0.2	− 0.4	7.7	+ 1.5
June 4	H.	.	2 51.9	....	....	....	....	.	75 16 53.7	+ 0.1	+ 0.6	8.0	+ 1.9
10	T.	II	3 20 31.99	+ 0.04	+0.03	....	....	N.	73 10 35.2	− 1.4	− 0.7	....	....
12	N.	.	3 30 13.20	+ 0.05	+0.04	0.34	−0.07	.	72 31 33.3	− 1.9	− 1.1	6.0	+ 0.1
13	H.	.	3 35 5.46	+ 0.03	+0.01	0.51	+0.10	.	72 12 43.3	+ 1.4	+ 2.1	6.3	+ 0.4
14	T.	II	3 39 58.89	+ 0.04	+0.01	....	....	N.	71 54 13.9	− 0.9	− 0.1	....	....
20	N.	.	4 9 42.99	+ 0.06	+0.01	0.60	+0.20	C.	70 13 11.2	− 3.3	− 2.3	....	....
July 2	T.	II	5 11 4.23	+ 0.03	−0.02	....	....	.	67 48 9.8	− 2.9	− 1.3	6.2	+ 0.7
9	T.	II	5 47 45.42	+ 0.03	−0.04	....	....	S.	67 3 33.5	− 2.3	− 1.2	....	....
16	T.	II	6 24 48.20	0.00	−0.09	....	....	.	66 51 3.8	− 1.5	− 0.3	6.4	+ 1.2
Nov. 20	T.	I	16 42 42.75	+ 0.06	−0.02	....	....	.	112 41 22.4	− 0.7	− 2.1	5.6	+ 0.4
27	T.	I	17 20 35.62	+ 0.02	−0.07	....	....	.	113 50 43.4	+ 0.7	− 0.9	6.1	+ 0.8
30	H.	.	17 37 59.92	− 0.02	−0.13	0.46	+0.07	.	114 9 46.3	+ 3.1	+ 2.2	6.4	+ 1.1
Dec. 7	T.	I	18 15 28.46	+ 0.02	−0.07	....	....	.	114 28 5.9	+ 2.9	+ 1.7	6.4	+ 1.0
9	H.	.	18 26.5	....	....	....	....	.	114 26 31.6	+ 1.6	+ 0.3	5.0	− 0.4
16	H.	.	19 4 50.31	+ 0.08	0.00	0.43	+0.03	.	113 57 25.2	+ 2.1	+ 1.0	5.5	0.0
19	H.	.	19 21 8.61	+ 0.06	−0.02	0.45	+0.05	.	113 33 50.4	+ 1.8	+ 0.9	4.7	− 0.8
23	H.	.	19 42 41.80	+ 0.05	−0.03	0.48	+0.08	.	112 52 23.9	+ 3.0	+ 2.0	6.3	+ 0.7
26	H.	.	19 58 41.40	+ 0.04	−0.06	0.42	+0.02	.	112 14 4.4	+ 4.3	+ 3.5	5.2	− 0.5

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1868.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Jan. 30	N.	.	22	51	4.81	+ 0.01	−0.03	0.41	−0.01	C.	98	49	48.8	+ 2.6	+ 3.0	....	....
31	N.	.	22	55	38.61	+ 0.07	+0.03	0.39	−0.03	.	98	20	1.4	− 4.1	− 3.6	8.6	+ 2.4
Feb. 11	A.	I	23	44	56.30	+ 0.09	+0.08	....	....	.	92	42	34.8	− 1.2	− 0.4	5.4	− 1.1
12	Ha.	I	23	49	21.32	+ 0.08	+0.08	....	....	.	92	11	12.6	− 1.8	− 1.0	7.3	+ 0.8
13	E.	I	23	53	45.58	− 0.21	−0.22	....	....	S.	91	39	48.4	− 0.9	− 0.1	....	....
15	E.	I	0	2	33.61	− 0.06	−0.05	....	....	.	90	36	49.0	− 2.1	− 1.4	8.9	+ 2.3
19	Ha.	I	0	20	6.60	− 0.10	−0.09	....	....	.	88	30	43.6	+ 0.4	+ 1.1	6.8	+ 0.1
22	N.	.	0	33	12.64	− 0.03	+0.02	0.43	−0.03	.	86	56	19.4	− 0.7	+ 0.1	6.9	+ 0.1
Mar. 18	Ha.	I	2	23	25.04	− 0.09	+0.01	....	....	.	74	41	37.6	− 3.0	− 2.2	8.0	+ 0.1
19	E.	I	[illegible]	27	55.12	− 0.02	+0.08	....	....	.	74	15	40.4	− 1.0	− 0.1	7.6	− 0.3
31	A.	I	3	22	42.73	− 0.10	+0.02	....	....	.	69	35	11.8	− 2.8	− 2.0	7.8	− 0.8
Apr. 4	N.	I	3	41	16.06	− 0.16	−0.06	....	....	.	68	16	30.1	− 2.1	− 1.2	9.1	+ 0.2
6	N.	.	3	50	35.14	− 0.23	−0.13	0.59	−0.06	.	67	40	15.9	− 2.5	− 1.5	8.7	− 0.3
8	N.	.	3	59	55.67	− 0.18	−0.05	0.62	−0.04	.	67	6	13.1	− 0.6	+ 0.4	9.4	+ 0.3
17	N.	.	4	42	4.95	0.00	+0.12	0.81	+0.08	.	65	1	5.1	− 0.1	0.0	10.3	+ 0.5
18	N.	.	4	46	45.53	− 0.07	+0.04	0.71	−0.01	.	64	50	6.8	− 2.5	− 1.5	9.5	− 0.4
23	E.	I	5	10	2.81	− 0.03	+0.13	....	....	.	64	4.5	....	....	....	....	....
27	N.	I	5	28	28.39	+ 0.05	+0.15	....	....	.	63	39	1.5	− 1.7	− 1.4	10.4	− 0.4
30	N.	I	5	42	6.28	− 0.13	−0.06	....	....	.	63	26	21.5	− 0.4	+ 0.3	11.1	0.0
May 1	N.	I	5	46	36.40	− 0.05	+0.01	....	....	.	63	23	19.2	− 1.5	− 0.9	11.4	+ 0.2
11	N.	I	6	29	57.18	− 0.15	−0.08	....	....	.	63	25	13.2	− 0.9	− 0.9	13.1	+ 0.5
18	N.	I	6	57	52.80	− 0.03	+0.04	....	....	.	63	58	34.6	− 0.2	− 0.2	14.1	+ 0.4
22	A.	.	7	12.7	....	....	....	....	....	.	64	27	51.1	− 1.1	− 1.5	14.5	0.0
26	A.	I	7	26	23.50	− 0.10	−0.11	....	....	.	65	3	35.2	+ 1.8	+ 1.4	15.0	− 0.3
27	E.	I	7	29	38.83	− 0.10	−0.14	....	....	.	65	13	23.1	+ 1.6	+ 0.8	15.1	− 0.4
30	E.	I	7	38	56.61	− 0.02	−0.09	....	....	.	65	44.6	....	....	....	....	....
June 1	N.	I	7	44	43.17	− 0.06	−0.11	....	....	.	66	6	54.5	+ 1.2	− 0.1	16.8	+ 0.2
4	N.	I	7	52	41.89	− 0.02	−0.08	....	....	.	66	41	58.9	− 0.9	− 2.5	17.3	− 0.1
5	E.	I	7	55	9.84	+ 0.03	−0.06	....	....	.	66	54	7.6	+ 2.1	+ 0.4	17.1	− 0.6
6	T.	I	7	57	31.48	− 0.11	−0.23	....	....	.	67	6	22.9	+ 1.8	− 0.2	18.2	+ 0.2
12	E.	I	8	9	23.16	0.00	−0.18	....	....	.	68	22	23.8	+ 2.9	+ 0.6	19.3	− 0.5
13	T.	I	8	10	56.67	− 0.07	−0.23	....	....	.	68	35	19.2	+ 4.9	+ 2.6	21.8	+ 1.7
15	N.	I	8	13	40.77	+ 0.08	−0.07	....	....	.	69	1	5.7	+ 3.5	+ 1.1	21.0	+ 0.2
19	E.	I	8	17	29.68	− 0.07	−0.22	....	....	N.	69	52	12.2	+ 3.8	+ 0.8	....	....
20	T.	I	8	18	5.31	+ 0.11	−0.07	....	....	N.	70	4	46.4	+ 4.5	+ 1.2	....	....
22	N.	I	8	18	48.67	+ 0.15	−0.11	....	....	.	70	29	30.0	+ 5.0	+ 1.4	23.6	+ 0.4
23	E.	I	8	18	56.04	− 0.01	−0.29	....	....	N.	70	41	38.3	+ 6.1	+ 2.3	....	....
24	T.	I	8	18	53.91	− 0.04	−0.33	....	....	N.	70	53	34.6	+ 6.0	+ 1.9	....	....
29	N.	I	8	16	15.18	+ 0.15	−0.02	....	....	N.	71	49	52.8	+ 4.7	+ 0.3	....	....
July 1	T.	I	8	14	1.97	+ 0.14	−0.11	....	....	N.	72	10	32.3	+ 4.7	+ 0.1	....	....
2	N.	I	8	12	40.85	+ 0.13	−0.11	....	....	N.	72	20	25.6	+ 5.4	+ 0.7	....	....
3	E.	I	8	11	10.34	+ 0.11	−0.14	....	....	N.	72	30	0.0	+ 6.3	+ 1.5	....	....
4	T.	I	8	9	30.69	+ 0.04	−0.24	....	....	N.	72	39	11.2	+ 4.0	− 0.8	....	....
7	E.	I	8	3	41.64	+ 0.07	−0.27	....	....	N.	73	4	47.7	+ 5.7	+ 0.9	....	....
22	N.	II	7	23	41.54	+ 0.11	−0.20	....	....	N.	74	22	20.4	+ 3.7	− 0.5	....	....
Aug. 12	F.	II	7	9	36.64	− 0.10	+0.02	....	....	.	73	51	46.1	+ 0.6	− 0.2	24.6	+ 2.3
13	E.	II	7	10	39.21	− 0.07	+0.03	....	....	.	73	48	45.6	+ 1.2	+ 0.4	22.5	+ 0.6
14	T.	II	7	11	49.92	− 0.10	−0.02	....	....	.	73	45	48.9	+ 3.4	+ 2.7	22.4	+ 0.8
17	E.	II	7	16	8.90	+ 0.07	+0.06	....	....	.	73	37	17.1	+ 1.1	+ 0.5	20.5	− 0.1
21	T.	II	7	23	33.39	− 0.08	−0.07	....	....	S.	73	27	48.3	+ 0.2	+ 0.2	....	....
Sept. 4	T.	II	8	1	11.02	− 0.01	−0.07	....	....	S.	73	27	16.9	− 2.0	− 0.9	....	....
16	F.	II	[illegible]	43	16.82	+ 0.29	+0.13	....	....	S.	74	27	17.9	− 0.6	+ 0.5	....	....
17	T.	II	8	47	3.09	+ 0.10	−0.05	....	....	S.	74	35	16.4	+ 0.2	+ 1.5	....	....
18	F.	II	8	50	51.54	+ 0.19	+0.06	....	....	S.	74	43	40.4	− 1.5	− 0.1	....	....
30	T.	II	9	38	28.86	+ 0.14	−0.03	....	....	S.	77	1	30.0	− 0.3	+ 1.3	....	....
Oct. 5	F.	II	9	59	5.54	+ 0.09	−0.10	....	....	S.	78	18	21.0	− 1.7	− 0.6	....	....
7	N.	.	10	7	25.47	+ 0.20	0.00	0.68	−0.05	.	78	52	7.7	− 1.2	0.0	10.4	− 0.3
8	F.	II	10	11	36.25	+ 0.15	−0.07	....	....	S.	79	9	40.5	+ 1.1	+ 2.2	....	....
11	N.	.	10	24	12.15	+ 0.30	+0.05	0.61	−0.09	.	80	4	36.6	+ 1.1	+ 1.9	10.2	− 0.2

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1868.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Oct. 12	F.	II	10	28	24.85	+0.16	−0.09	....	....	S.	80	23	41.8	+0.9	+1.7	....	....
18	E.	II	10	53	50.27	+0.26	+0.02	....	....	S.	82	25	47.2	−0.1	+0.6	....	....
19	F.	.	11	2.3	....	....	....	....	....	S.	82	47	23.0	+4.1	+4.7	....	....
22	F.	II	11	10	53.35	+0.22	−0 02	....	....	S.	83	53	41.9	−1.6	−1.2	....	....
23	T.	II	11	15	9.76	+0.14	−0.09	....	....	S.	84	16	25.3	−1.1	−0.8	....	....
25	E.	II	11	23	43.65	+0.15	−0.08	....	....	S.	85	[illegible]	40.8	−0.1	−0.5	....	....
26	F.	II	11	28	0.97	+0.11	−0.10	....	....	S.	85	26	10.7	−0.3	+0.2	....	....
28	E.	II	11	36	36.63	+0.21	0.00	....	....	S.	86	13	53.8	−0.6	−0.1	....	....
29	F.	.	11	40	54.81	+0.15	−0.07	0.63	+0.04	.	86	38	7.5	+1.1	+1.5	12.0	+3.1
Nov. 6	T.	II	12	15	33.87	+0.32	+0.11	....	....	S.	89	58	22.8	+0.9	+0.9	....	....
8	N.	.	12	24	17.57	+0.23	+0.01	0.49	−0.06	.	90	49	51.7	−1.1	−1.4	8.0	−0.4
Dec. 8	T.	II	14	40	32.41	+0.16	+0.02	....	....	S.	103	32	6.5	0.0	−1.0	....	....
11	T.	II	14	54	56.64	+0.23	+0.08	....	....	S.	104	39	52.0	+2.1	+1.1	....	....
17	F.	II	15	24	16.53	+0.35	+0.23	....	....	S.	106	46	2.5	+5.2	+4.4	....	....
18	T.	II	15	29	13.80	+0.17	+0.06	....	....	S.	107	5	38.5	+1.8	+0.8	....	....
22	T.	II	15	49	15.74	+0.47	+0.37	....	....	S.	108	19	56.7	+5.0	+4.1	....	....
1869.																	
Jan. 6	F.	II	17	7	0.38	+0.16	+0.10	....	....	S.	111	44	49.4	+1.5	−0.8	....	....
Feb. 5	T.	II	17	48	4.02	+0.14	+0.14	....	....	N.	111	20	59.5	+1.9	0.0	....	....
1870.																	
Feb. 3	E.	I	22	48	34.25	−0.08	−0.04	....	....	S.	91	36	55.7	−3.2	+0.9	....	....
Mar. 8	F.	II	21	49	31.91	+0.15	+0.25	....	....	.	94	51	6.4	−3.5	−1.4	24.7	−3.2
9	Ha.	II	21	48	47.26	+0.19	+0.25	....	....	.	95	4	47.5	+1.0	−0.4	26.6	−0.9
10	E.	II	21	48	12.14	+0.20	+0.22	....	....	.	95	17	59.4	+1.1	−0.3	26.6	−0.5
14	F.	.	21	47.5	.....	....	....	....	....	.	96	5	41.6	+0.3	−1.1	24.6	−0.9
17	F.	II	21	48	32.39	+0.10	+0.20	....	....	.	96	35	11.0	+1.4	−1.5	24.4	−0.1
18	Ha.	II	21	49	12.04	+0.16	+0.24	....	....	.	96	43	39.5	+0.9	−1.9	23.6	−0.5
21	Ha.	II	21	52	1.52	+0.13	+0.25	....	....	.	97	4	54.7	+3.6	−0.6	23.1	+0.2
24	Ha.	II	21	56	1.80	+0.14	+0.21	....	....	.	97	19	36.7	+3.7	−0.5	23.6	+1.6
Apr. 6	E.	II	22	24	5.36	+0.19	+0.14	....	....	N.	97	9	4.2	+5.0	+0.2	....	....
12	E.	II	22	41	17.31	+0.26	+0.15	....	....	N.	96	26	38.4	+2.3	−1.8	....	....
25	F.	.	23	24.2	.....	....	....	....	....	N.	93	47	8.3	−1.8	−5.5	....	....
May 5	Ha.	.	0	0.5	.....	....	....	....	....	N.	90	55	19.0	+3.8	+1.0	....	....
6	E.	II	0	4	11.73	+0.04	−0.03	....	....	N.	90	36	19.5	+3.5	+0.7	....	....
12	E.	.	0	27.0	.....	....	....	....	....	N.	88	37	0.8	+0.6	−2.4	....	....
15	E.	II	0	38	37.51	+0.27	+0.20	....	....	N.	87	34	31.2	+3.2	+0.5	....	....
16	F.	II	0	42	31.76	+0.17	+0.10	....	....	N.	87	13	19.4	+3.2	+0.6	....	....
June 6	E.	II	2	8	9.06	+0.27	+0.20	....	....	N.	79	31	29.5	+0.9	+0.1	....	....
7	F.	II	2	12	24.31	+0.18	+0.08	....	....	N.	79	9	45.6	+1.0	−0.2	....	....
16	F.	II	2	51	31.93	−0.08	−0.10	....	....	N.	76	0	51.6	+1.8	+1.5	....	....
17	S.	.	2	56.0	.....	....	....	....	....	.	75	40	49.5	+1.4	+1.2	7.6	−0.5
19	T.	II	3	4	55.54	−0.14	−0.15	....	....	N.	75	1	28.0	+0.2	−0.3	....	....
20	S.	II	3	9	25.92	−0.08	−0.08	....	....	.	74	42	11.0	+0.2	0.0	9.5	+1.5
21	E.	II	3	13	57.51	−0.02	−0.02	....	....	.	74	23	9.6	−0.5	−1.0	7.7	−0.3
22	F.	II	3	18	30.24	−0.04	−0.05	....	....	.	74	4	27.1	+0.6	+0.4	7.7	−0.2
23	S.	II	3	23	4.28	+0.02	+0.02	....	....	.	73	45	59.9	−0.1	−0.3	8.1	+0.3
24	E.	II	3	27	39.55	+0.08	+0.08	....	....	.	73	27	53.1	−1.0	−1.0	8.1	+0.3
26	S.	II	3	36	53.49	−0.08	−0.08	....	....	.	72	52	38.0	−1.0	−0.8	9.5	+1.8
28	F.	II	3	46	12.46	−0.07	−0.09	....	....	.	72	18	45.7	−1.2	−0.9	7.8	+0.2
29	S.	II	3	50	53.92	+0.09	+0.06	....	....	.	72	2.4	....	....	....	....	....
30	E.	II	3	55	36.29	−0.05	−0.10	....	....	.	71	46	23.8	+0.3	+0.9	7.1	−0.4
July 7	F.	II	4	29	6.87	−0.16	−0.17	....	....	N.	70	5	54.5	−3.9	−3.8	....	....
8	S.	II	4	33	58.80	−0.07	−0.07	....	....	.	69	53	23.2	−1.7	−0.4	7.7	+0.5
10	F.	II	4	43	45.84	0.00	−0.02	....	....	.	69	29	44.7	+0.3	+1.4	6.6	−1.5
11	S.	II	4	48	40.86	−0.09	−0.13	....	....	.	69	18	38.5	0.0	+0.9	7.6	−0.5
12	F.	II	4	53	36.97	−0.13	−0.16	....	....	.	69	8	2.8	−0.2	+1.0	7.7	+0.7
13	E.	II	4	58	34.23	−0.05	−0.08	....	....	N.	68	57	57.0	−1.4	−0.2	....	....
15	E.	II	5	8	31.72	+0.11	+0.08	....	....	N.	68	39	22.4	−1.8	−0.5	....	....
17	S.	II	5	18	32.75	+0.04	+0.01	....	....	.	68	22	57.7	−2.3	−0.7	6.3	−0.5

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1870.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
July 20	S.	II	5	33	40.82	+ 0.02	+0.02	....	....	.	68	2	33.5	− 1.6	− 0.1	6.8	+ 0.1
21	E.	II	5	38	45.03	− 0.02	−0.01	....	....	N.	67	56	55.2	− 0.5	+ 0.9	....	....
27	E.	II	6	9	23.80	+ 0.02	−0.05	....	....	.	67	35	27.8	− 1.6	− 0.6	6.3	− 0.2
Aug. 1	E.	II	6	35	8.15	+ 0.10	+0.04	....	....	.	67	34	29.5	− 0.7	+ 1.3	6.0	− 0.4
2	F.	II	6	40	17.65	+ 0.04	−0.02	....	....	.	67	36	8.7	− 2.4	− 0.4	6.7	+ 0.4
4	Ha.	II	6	50	37.02	− 0.02	−0.08	....	....	.	67	41	23.2	− 2.9	− 0.9	6.0	− 0.3
5	E.	II	6	55	47.02	+ 0.20	+0.14	....	....	.	67	44	58.2	− 2.3	− 0.3	6.8	+ 0.6
7	S.	.	7	6.1	.....	....	....	....	....	.	67	54	0.8	− 2.2	− 0.2	6.7	+ 0.5
11	S.	II	7	26	43.38	− 0.06	−0.12	....	....	.	68	19	39.0	− 1.6	+ 0.7	6.2	+ 0.1
1871.																	
Aug. 9	E.	I	11	55	43.70	− 0.07	−0.07	....	....	N.	92	16	37.9	+ 7.6	+ 3.2	....	....
11	F.	I	12	0	21.35	+ 0.21	+0.15	....	....	N.	93	6	21.1	+ 7.0	+ 3.2	....	....
15	F.	I	12	8	47.67	+ 0.22	+0.11	....	....	N.	94	42	11.8	+ 9.2	+ 5.0	....	....
19	F.	I	12	16	1.58	+ 0.15	+0.07	....	....	N.	96	11	55.9	+ 5.2	+ 1.5	....	....
21	F.	I	12	19	7.70	+ 0.16	+0.05	....	....	N.	96	54	5.1	+ 5.9	+ 2.3	....	....
Sept. 26	F.	II	11	54	32.07	+ 0.56	+0.31	....	....	.	98	29.9	...	....	....	....	....
27	S.	.	11	52.4	.....	....	....	....	....	N.	98	10	14.7	+ 1.2	+ 2.4	....	....
29	F.	II	11	48	27.87	+ 0.62	+0.42	....	....	N.	97	29	6.8	− 3.5	− 1.2	....	....
Dec. 6	E.	II	13	48	35.81	+ 0.19	−0.01	....	....	S.	98	34	29.3	− 1.6	+ 0.4	....	....
27	F.	II	15	17	1.15	+ 0.17	0.00	....	....	.	105	15.7	....	....	....	....	....
1872.																	
Jan. 1	S.	II	15	39	46.58	+ 0.13	−0.01	....	....	.	106	42.3	....	....	....	....	....
8	F.	II	16	12	40.46	+ 0.21	+0.09	....	....	.	108	30	37.1	+ 0.9	+ 0.4	10.7	+ 1.9
19	E.	II	17	6	31.65	+ 0.02	−0.05	....	....	S.	110	40	12.8	+ 1.8	+ 0.8	....	....
24	F.	II	17	31	43.93	+ 0.08	−0.03	....	....	.	111	19	5.4	+ 0.8	− 0.6	7.6	− 0.6
31	E.	II	18	7	34.20	− 0.09	−0.12	....	....	.	111	49	39.2	+ 1.9	+ 0.3	6.7	− 1.2
Feb. 21	F.	II	19	56	7.62	+ 0.09	+0.01	....	....	.	110	20	22.0	+ 1.9	− 0.2	7.4	+ 0.4
25	F.	II	20	16	31.32	+ 0.08	+0.01	....	....	.	109	32	50.4	+ 1.3	− 0.9	8.1	+ 1.3
Mar. 15	E.	II	20	50	24.01	+ 0.18	+0.15	....	....	N.	103	52	42.3	+ 2.2	+ 0.3	....	....
27	E.	II	22	46	52.74	+ 0.09	+0.08	....	....	N.	99	1	52.6	+ 3.0	+ 1.5	....	....
Apr. 9	F.	II	23	46	14.81	+ 0.21	+0.23	....	....	N.	93	6	35.0	+ 1.1	− 0.1	....	....
16	E.	.	0	17	47.60	+ 0.11	+0.10	0.56	+0.19	.	89	46	35.0	+ 1.3	+ 0.9	5.8	+ 0.2
23	S.	II	0	49	18.94	+ 0.06	+0.09	....	....	.	86	25.5	....	....	....	....	....
29	F.	II	1	16	29.31	+ 0.03	+0.05	....	....	.	83	35	15.2	− 1.1	− 1.3	5.2	− 0.2
May 2	E.	II	1	30	10.51	+ 0.07	+0.10	....	....	N.	82	11	40.4	− 1.4	− 1.5	5.7	+ 0.3
6	E.	II	1	48	33.49	− 0.12	−0.08	....	....	N.	80	22	33.9	− 0.8	− 0.8	5.3	0.0
7	F.	II	1	53	11.02	− 0.08	−0.03	....	....	.	79	55	48.1	+ 0.5	+ 0.5	5.1	− 0.2
10	E.	II	2	7	8.02	− 0.11	−0.08	....	....	.	78	36	49.1	− 0.2	+ 0.3	4.6	− 0.7
27	F.	I	3	28	51.14	− 0.04	−0.02	....	....	.	72	2.6	....	....	....	....	....
30	E.	II	3	43	48.94	+ 0.02	+0.04	....	....	.	71	5	12.9	− 0.7	+ 0.3	5.7	+ 0.6
31	F.	.	3	48	50.36	− 0.08	−0.05	0.38	+0.02	.	70	47	4.2	+ 0.6	+ 1.7	5.4	+ 0.3
June 11	E.	.	4	45	17.99	− 0.12	−0.15	0.33	−0.03	.	68	2	57.5	− 0.1	+ 1.5	2.9	− 2.1
20	F.	.	5	32	50.13	− 0.06	−0.09	0.34	−0.02	.	66	43	24.2	− 0.9	+ 0.7	4.4	− 0.6
Aug. 7	E.	.	9	37	59.29	+ 0.12	−0.01	0.40	+0.05	.	74	24	25.9	+ 0.1	+ 0.2	6.5	+ 1.5
14	E.	I	10	11	38.00	+ 0.11	−0.02	....	....	.	77	17	43.8	− 1.6	− 1.7	4.4	− 0.6
19	E.	I	10	35	9.61	− 0.07	−0.20	....	....	.	79	32	2.4	+ 0.2	− 0.4	4.9	− 0.2
Oct. 2	E.	I	13	55	50.47	− 0.06	−0.14	....	....	.	101	26	14.4	+ 5.9	+ 3.7	4.8	− 0.7
10	E.	I	14	33	44.98	− 0.13	−0.22	....	....	N.	105	2	9.2	+ 4.1	+ 2.2	....	....
Nov. 7	E.	I	16	56	5.09	− 0.30	−0.36	....	....	.	113	50	29.4	+ 3.3	+ 1.6	7.2	+ 1.1
8	F.	I	17	1	25.87	− 0.10	−0.10	....	....	N.	114	0	38.3	+ 2.0	+ 0.3	....	....
15	E.	I	17	39	7.24	− 0.21	−0.23	....	....	.	114	51	51.2	+ 4.0	+ 3.0	8.2	+ 1.9
23	E.	I	18	22	29.34	− 0.33	−0.36	....	....	.	115	5	57.9	+ 5.0	+ 4.1	6.2	− 0.3
Dec. 2	F.	I	19	10	58.55	− 0.12	−0.14	....	....	.	114	24	25.6	+ 2.2	+ 1.6	6.6	− 0.2
6	F.	I	19	32	12.86	− 0.06	+0.04	....	....	N.	113	46	56.8	− 1.4	− 1.8	....	....
10	F.	I	19	53	9.54	− 0.23	−0.21	....	....	.	112	58	26.3	− 0.5	− 0.7	7.9	+ 0.8
13	E.	I	20	8	38.97	− 0.30	−0.27	....	....	.	112	15	5.2	− 1.3	− 1.4	6.7	− 0.5
14	F.	I	20	13	46.13	− 0.25	−0.21	....	....	.	111	59	24.1	+ 0.6	+ 0.6	7.8	+ 0.6
1873.																	
Jan. 30	E.	I	23	46	15.15	− 0.32	−0.24	....	....	S.	91	41	30.9	− 3.2	− 1.2	....	....

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
			h	m	s	s	s	s	s		°	′	″	″	″	″	″
1873.																	
Mar. 7	F.	I	1	59	17.70	− 0.23	−0.11	....	....	S.	74	20	33.0	+ 2.8	+ 4.7	....	....
12	F.	I	2	15	24.75	− 0.19	−0.10	....	....	.	72	23	6.6	− 3.5	− 1.7	15.0	+ 0.9
14	S.	I	2	21	34.85	− 0.26	−0.19	....	....	.	71	39	11.6	+ 1.5	+ 3.1	15.0	+ 0.7
19	E.	I	2	36	9.60	− 0.27	−0.21	....	....	S.	69	57	12.9	− 0.9	+ 0.8	....	....
28	F.	I	2	58	25.00	− 0.39	−0.28	....	....	.	67	26	23.7	+ 1.6	+ 1.9	18.6	+ 0.1
Apr. 4	E.	I	3	10	45.06	− 0.16	−0.19	....	....	S.	66	3	24.5	+ 1.3	+ 1.1	....	....
May 16	E.	II	2	23	39.33	+ 0.26	+0.10	....	....	N.	74	4	4.3	+ 8.9	+ 2.6	....	....
June 5	E.	II	2	29	13.44	+ 0.19	−0.04	.. .	....	N.	77	26	57.7	+ 5.0	+ 0.3	....	....
15	F.	II	2	49	28.17	+ 0.21	+0.13	....	....	N.	76	50	22.1	+ 4.1	+ 0.2	....	....
17	E.	II	[illegible]	54	31.05	+ 0.20	+0.12	....	....	N.	76	35	46.6	+ 5.3	+ 1.2	....	....
July 13	F.	II	4	20	59.24	+ 0.07	+0.03	....	....	.	71	59	39.7	+ 0.7	− 0.2	12.8	0.0
15	E.	II	4	28	53.91	+ 0.03	−0.01	....	....	.	71	38	14.7	+ 1.9	+ 1.2	12.1	+ 0.6
17	F.	II	4	36	57.26	− 0.03	−0.06	....	....	.	71	17	29.6	− 1.7	− 2.2	12.1	+ 0.4
21	F.	II	4	53	28.83	+ 0.15	+0.08	....	....	.	70	38	54.1	− 1.0	− 1.0	11.2	+ 0.1
Aug. 4	E.	II	5	54	57.73	+ 0 04	−0.05	....	....	.	69	4	51.4	− 2.0	− 0.8	11.4	+ 1.6
6	F.	II	6	4	8.03	+ 0.18	−0.10	....	....	.	68	57	56.1	− 1.6	− 0.4	9.5	+ 0.2
8	E.	II	6	13	22.72	− 0.03	+0.09	....	....	.	68	52	54.5	+ 0.2	+ 1.5	9.5	0.0
10	F.	II	6	22	41.98	− 0.01	−0.05	....	....	.	68	49	44.9	− 1.2	+ 0.3	9.3	+ 0.1
22	F.	II	7	19	45.99	− 0.06	−0.18	....	....	.	69	14	27.2	− 3.4	− 1.8	8.7	+ 0.2
Sept. 21	E.	II	9	43	36.47	+ 0.07	−0.07	....	....	.	75	52	9.5	− 1.3	+ 0.2	7.0	0.0
30	Hn.	.	10	25	36.89	+ 0.17	+0.01	0.58	+0.12	.	79	12	35.6	− 3.2	− 2.1	7.5	+ 0.7
Oct. 7	E.	II	10	57	50.34	+ 0.34	+0.20	....	....	S.	82	7	14.3	+ 0.8	+ 1.9	....	....
8	Hn.	.	11	2	24.74	+ 0.11	−0.03	0.47	+0.03	.	82	33	15.6	− 0.3	+ 0.8	7.7	+ 1.2
12	Hn.	.	11	20	40.32	+ 0.12	−0.01	0.39	+0.04	.	84	19	39.4	− 5.7	− 4.8	7.2	+ 0.8
15	E.	I	11	34	19.48	+ 0.16	+0.01	....	....	.	85	41	42.0	− 2.1	− 1.5	5.8	+ 0.5
21	F.	.	12	1.6	....	....	....	....	....	.	88	29	46.0	− 1.0	− 0.7	5.7	+ 0.5
24	Hn.	.	12	15.2	....	....	....	....	....	.	89	55	9.9	− 1.8	− 1.7	6.5	+ 0.4
27	E.	II	12	28	50.26	− 0.09	−0.22	....	....	.	91	21	6.4	+ 0.4	+ 0.4	6.2	+ 0.2
29	F.	II	12	37	57.46	+ 0.33	+0.20	....	....	S.	92	18	29.1	+ 0.6	+ 0.5	....	....
31	E.	I	12	47	5.42	+ 0.31	+0.20	....	....	.	93	15	50.5	+ 1.0	+ 1.1	6.4	+ 0.4
Nov. 3	S.	.	13	0	50.02	− 0.01	−0.10	0.40	0.00	.	94	41	33.0	− 2.4	− 2.5	6.2	+ 0.3
4	E.	II	13	5	26.21	+ 0.28	−0.20	....	....	.	95	10	0.8	− 2.7	− 2.7	6.6	+ 0.7
9	Hn.	.	13	28	34.27	+ 0.20	−0.10	0.36	+0.03	.	97	30	58.0	+ 1.0	+ 0.7	6.4	+ 0.5
Dec. 9	Sk.	II	15	55	25.65	− 0.14	−0.21	....	....	S.	109	22	15.0	− 2.1	− 4.4	....	....
14	E.	II	16	21	33.91	+ 0.16	+0.12	....	....	.	110	43	8.8	+ 0.4	− 0.9	6.9	+ 1.6
16	S.	.	16	32	8.83	+ 0.23	−0.19	0.29	−0.09	.	111	11	24.9	+ 1.4	+ 0.1	6.7	+ 1.4
17	Sk.	C.	16	37	27.75	+ 0.16	+0.12	....	....	C.	111	24	37.7	+ 1.7	+ 0.2	....	....
29	Sk.	II	17	42	18.73	+ 0.01	−0.02	....	....	C.	113	11	51.3	+ 3.5	+ 2.0	....	....
30	E.	II	17	47	47.03	+ 0.21	+0.17	....	....	.	113	16	16.6	+ 2.3	+ 0.8	4.9	− 0.3
1874.																	
Jan. 14	Sk.	C.	19	9	56.14	+ 0.18	+0.17	....	....	C.	112	56	14.0	+ 4.3	+ 2.6	....	....
16	Sk.	II	19	20	48.20	+ 0.15	+0.15	....	....	C.	112	41	19.1	+ 3.1	+ 1.4	....	....
Apr. 11	F.	I	2	5	53.65	− 0.31	−0.29	....	....	.	77	54	20.2	− 0.3	+ 0.8	5.2	+ 0.1
13	Sk.	.	2	15	20.06	− 0.17	−0.14	0.33	−0.02	.	77	0	29.3	+ 0.3	+ 1.4	5.4	+ 0.3
30	E.	.	3	38.3	....	....	....	....	....	.	70	23	30.1	− 0.6	+ 1.0	4.8	− 0.5
May 7	Sk.	.	4	13	55.10	− 0.08	−0.09	0.39	0.00	.	68	20	33.5	− 0.9	+ 0.8	5.5	+ 0.2
11	Sk.	.	4	34	40.03	− 0.15	−0.14	0.37	−0.03	.	67	23	12.8	− 1.2	+ 0.4	6.1	+ 0.7
27	Sk.	.	5	59	31.26	− 0.09	−0.13	0.42	0.00	.	65	20	3.8	− 2.3	− 0.8	6.7	+ 1.1
28	E.	I	6	4	52.17	+ 0.12	−0.16	....	....	.	65	18	21.0	− 2.4	− 1.0	6.0	+ 0.4
June 1	E.	I	6	26	14.96	− 0.13	−0.18	....	....	.	65	18	44.4	− 1.6	− 0.3	6.2	+ 0.5
2	F.	II	6	31	35.15	− 0.07	−0.14	....	....	.	65	20	38.9	− 0.9	+ 0.4	5.1	− 0.6
9	E.	I	7	8	43.12	− 0.14	−0.17	....	....	.	65	53	54.1	− 1.1	0.0	6.2	+ 0.3
13	E.	I	7	29	41.12	− 0.03	−0.11	....	....	.	66	28	14.4	− 1.5	− 0.8	8.1	+ 2.1
15	S.	I	7	40	4.55	+ 0.01	−0.09	....	....	.	66	49.5	....	....	....	....	....
18	F.	I	7	55	31.53	− 0.11	−0.19	....	....	.	67	26	8.3	− 2.3	− 2.2	6.8	+ 0.7
25	E.	I	8	30	51.81	− 0.09	−0.18	....	....	.	69	13	17.3	− 2.7	− 2.4	6.8	+ 0.5
29	E.	I	8	50	33.70	− 0.11	−0.19	....	....	.	70	27	4.5	+ 1.7	+ 1.6	6.5	+ 0.1
July 6	Sk.	I	9	24	7.34	− 0.20	−0.24	....	....	N.	72	55	19.6	− 0.9	− 1.4	....	....
7	E.	I	9	28	49.49	− 0.08	−0.21	....	....	.	73	18	22.0	+ 1.1	+ 0.6	7.1	+ 0.5

VENUS—Continued.

Date.		Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
				h	m	s	s	s	s	s		°	′	″	″	″	″	″
1874.																		
July	9	S.	I	9	38	9.50	+ 0.06	−0.03	....	....	.	74	5.4	....	....	....	....	....
	10	Sk.	I	9	42	47.32	+ 0.01	−0.03	....	....	N.	74	29	53.8	+ 2.8	+ 2.1	....	....
	15	E.	I	10	5	36.67	+ 0.06	−0.02	....	....	.	76	36	36.3	+ 2.9	+ 1.7	8.7	+ 0.8
	17	S.	I	10	14	35.27	+ 0.01	−0.05	....	....	.	77	29.6	....	....	....	....	....
	23	E.	I	10	41	2.15	− 0.02	−0.04	....	....	.	80	15	33.6	+ 1.4	− 0.1	7.4	+ 0.1
	30	E.	I	11	11	4.14	− 0.23	−0.25	....	....	N.	83	39	23.2	+ 1.2	− 0.5	....	....
Aug.	26	Sk.	I	13	1	53.30	− 0.15	−0.14	....	....	N.	97	21	42.4	+ 4.1	+ 0.6	....	....
Sept.	21	E.	I	14	46	43.79	− 0.17	−0.20	....	....	N.	109	[illegible]	51.5	+ 3.9	+ 1.6	....	....
	23	S.	.	14	54	47.17	+ 0.07	+0.04	0.97	+0.11	.	109	47	54.3	+ 2.0	− 0.1	11.5	− 0.4
	24	Sk.	I	14	58	48.05	− 0.23	−0.25	....	....	N.	110	9	48.1	+ 0.3	− 1.8	....	....
	25	E.	I	15	2	49.15	+ 0.02	0.00	....	....	N.	110	31	21.4	+ 3.2	+ 1.2	....	....
	26	F.	I	15	6	49.56	− 0.05	−0.06	....	....	.	110	52	25.3	+ 2.5	+ 0.6	12.0	− 0.4
Oct.	1	S.	.	15	26	44.52	− 0.09	−0.08	1.00	+0.02	.	112	31	7.7	+ 2.3	+ 0.8	14.1	+ 1.0
	2	Sk.	I	15	30	41.51	− 0.17	−0.07	....	....	N.	112	49	30.9	+ 4.0	+ 2.5	....	....
	3	E.	I	15	34	37.89	− 0.06	−0.10	....	....	N.	113	7	22.9	+ 3.1	+ 1.5	....	....
	5	S.	.	15	42	27.67	− 0.05	−0.13	1.01	−0.01	.	113	41	40.7	+ 2.1	+ 0.5	14.2	+ 0.5
	15	E.	I	16	20	13.74	− 0.12	−0.19	....	....	.	116	2	51.3	+ 2.4	+ 2.0	....	....
	19	E.	I	16	34	21.18	+ 0.09	−0.04	....	....	.	116	44	29.4	+ 0.1	− 0.3	17.9	+ 1.4
	20	F.	I	16	37	45.71	+ 0.21	+0.06	....	....	.	116	53	32.7	− 0.7	− 0.9	14.5	− 2.3
	23	E.	I	16	47	38.16	+ 0.27	+0.12	....	....	.	117	17	30.3	+ 0.5	+ 0.8	16.7	− 0.8
	27	E.	I	16	59	50.99	− 0.03	−0.14	....	....	.	117	41	51.7	+ 2.6	+ 3.8	....	....
Nov.	4	E.	I	17	20	6.49	+ 0.20	−0.04	....	....	.	118	4	33.8	− 3.5	− 0.9	19.7	− 1.5
	7	Sk.	I	17	25	54.67	+ 0.69	+0.46	....	....	.	118	4	17.8	− 1.8	+ 1.5	22.0	− 0.2
	12	E.	I	17	32	51.20	+ 0.10	−0.10	....	....	.	117	52	49.5	− 5.9	− 1.8	22.8	− 1.4
	14	S.	I	17	34	34.48	+ 0.43	+0.20	....	....	.	117	44	20.8	− 4.0	+ 0.1	24.0	− 1.0
	24	E.	I	17	32	44.74	+ 0.18	−0.01	....	....	.	116	24	38.3	− 7.4	− 0.8	28.7	− 0.3
	27	Sk.	I	17	28	45.99	+ 0.28	+0.08	....	....	.	115	47	36.1	− 9.0	− 2.2	28.4	− 1.8
	30	S.	I	17	23	24.62	+ 0.63	+0.38	....	....	.	115	4	22.9	−10.1	− 3.4	29.8	− 1.2
Dec.	7	F.	I	17	7	16.41	+ 0.61	+0.40	....	....	.	113	3	22.4	−10.8	− 2.8	29.7	− 2.6
	14	F.	II	16	48	18.45	+ 0.84	+0.56	....	....	.	110	33	16.3	− 8.5	− 1.2	31.7	0.0
	17	E.	II	16	42	36.07	+ 0.49	+0.23	....	....	.	109	42	14.4	− 8.9	− 1.7	30.9	− 0.2
	18	F.	II	16	40	58.24	+ 0.55	+0.33	....	....	.	109	26	32.9	− 8.0	− 1.0	30.3	− 0.5
	20	Sk.	II	16	38	9.45	+ 0.55	+0.36	....	....	.	108	57	27.5	− 7.0	+ 0.3	29.9	− 0.2
1875.																		
Jan.	19	F.	.	17	8.1	....	....	....	....	....	.	107	53	59.0	− 2.9	− 0.9	20.2	+ 1.3
Feb.	7	E.	.	18	13.2	....	....	....	....	....	S.	109	25	45.7	+ 0.8	+ 0.1	....	....
	11	E.	II	18	29	16.16	+ 0.23	+0.12	....	....	.	109	35	19.2	+ 0.3	− 0.8	13.8	+ 0.1
	15	E.	II	18	45	55.69	+ 0.11	+0.06	....	...	.	109	39	0.8	+ 0.5	− 0.6	13.7	+ 0.7
	21	S.	II	19	11	47.10	+ 0.15	+0.07	....	....	.	109	31	54.7	+ 1.2	− 0.5	12.2	+ 0.1
	25	S.	.	19	29.5	....	....	....	....	....	.	109	17	53.3	− 0.3	− 2.2	12.6	+ 0.9
Mar.	7	E.	II	20	14	40.81	+ 0.15	+0.05	....	....	.	108	8	17.7	+ 5.9	+ 3.7	12.9	+ 2.3
	9	F.	II	20	23	49.16	+ 0.43	+0.35	....	....	.	107	48	18.6	+ 5.4	+ 3.2	9.8	− 0.6
	10	Sk.	II	20	28	23.14	+ 0.08	0.00	....	....	.	107	37	30.9	+ 1.8	− 0.4	10.5	+ 0.2
	11	E.	II	20	32	57.83	+ 0.30	+0.22	....	....	.	107	26	16.8	+ 1.6	− 0.6	9.9	− 0.3
	22	Sk.	II	21	23	14.37	+ 0.15	+0.06	....	....	.	104	51	11.6	+ 2.7	0.0	8.9	− 0.3
Apr.	4	E.	II	22	21	59.26	+ 0.11	+0.02	....	....	N.	100	40	54.8	+ 3.2	+ 1.0	....	....
	13	F.	II	23	2	0.16	+ 0.09	−0.01	....	....	.	97	14	7.5	+ 0.8	− 1.2	7.8	− 0.1
	21	F.	II	23	37	12.08	+ 0.29	+0.22	....	....	.	93	54.0	....	....	....	....	....
	29	F.	II	0	12	14.13	+ 0.32	+0.28	....	....	.	90	23	50.9	0.0	− 1.3	8.0	+ 0.8
May	10	E.	II	1	0	32.72	+ 0.05	+0.01	....	....	.	85	28.7	....	....	....	....	....
	14	E.	II	1	18	15.93	− 0.01	−0.03	....	....	.	83	42	10.6	0.0	− 0.7	6.5	− 0.2
	18	E.	II	1	36	7.29	− 0.09	−0.11	....	....	.	81	57	9.1	− 0.2	− 0.8	6.3	− 0.2
	27	F.	II	2	16	58.78	− 0.04	−0.03	....	....	N.	78	10	2.4	− 2.5	− 2.3	....	....
	30	E.	II	[illegible]	30	51.08	− 0.06	−0.12	....	....	.	76	58	18.9	− 0.9	− 0.5	6.7	+ 0.5
	31	F.	II	2	35	30.53	− 0.07	−0.03	....	....	.	76	34	58.5	+ 1.4	+ 1.8	6.7	+ 0.6
June	3	E.	II	2	49	34.59	− 0.07	−0.06	....	....	.	75	26	37.4	+ 0.8	+ 1.3	6.5	+ 0.4
July	7	E.	II	5	40	3.00	− 0.05	−0.06	....	....	.	67	8	58.8	− 1.5	− 0.2	5.7	+ 0.3
	25	E.	II	7	15	23.55	− 0.04	−0.05	....	....	.	67	26	6.2	+ 0.2	+ 1.6	5.7	+ 0.5
Aug.	4	E.	II	8	7	44.29	− 0.04	−0.08	....	....	.	69	8	34.8	− 0.3	+ 1.1	6.1	+ 1.0

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1875.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Aug. 8	P.	II	8	28	19.71	+0.19	+0.15	....	....	.	70	6	54.3	+0.4	+1.4	4.8	−0.3
19	P.	.	9	23	36.76	+0.07	+0.01	0.35	0.00	.	73	32	40.1	−0.8	+0.5	5.2	+0.2
25	Sk.	.	9	52	54.66	0.00	−0.07	0.37	+0.02	.	75	49	22.3	−0.7	+0.2	5.4	+0.4
29	P.	.	10	12	7.53	+0.01	+0.12	0.33	−0.01	.	77	28	35.9	+2.2	+2.7	4.6	−0.4
31	P.	.	10	21	38.05	−0.15	−0.23	0.35	+0.01	.	78	20	15.7	−0.8	−0.4	4.2	−0.8
Sept. 2	F.	.	10	31	5.70	+0.02	−0.05	0.34	0.00	.	79	13	15.4	−1.2	−0.8	4.7	−0.3
3	P.	.	10	35	48.15	−0.04	−0.10	0.32	−0.02	.	79	40	14.8	+1.1	+1.5	4.7	−0.3
Oct. 13	Sk.	.	13	35	18.34	+0.05	0.00	0.34	0.00	.	98	53	41.7	+0.6	−0.6	5.0	0.0
20	P.	I	14	8	21.00	+0.19	+0.16	....	....	.	102	10	31.6	−0.4	−1.7	4.6	−0.4
21	Sk.	.	14	13	7.93	+0.21	+0.18	0.35	+0.01	.	102	37	39.0	+2.7	+1.3	5.2	+0.2
25	Sk.	.	14	32	25.96	+0.10	+0.06	0.33	−0.02	.	104	22	46.6	+3.0	+1.6	5.8	+0.8
28	P.	I	14	47	6.20	+0.04	0.00	....	....	.	105	37	53.3	+0.8	−0.6	4.8	−0.3
Nov. 2	P.	I	15	11	57.19	+0.05	+0.02	....	....	.	107	34	59.6	+0.3	−1.1	5.0	−0.1
9	P.	I	15	47	36.22	−0.03	−0.04	....	....	.	109	59	5.1	+2.0	+0.4	4.9	−0.2
11	E.	I	15	57	58.41	−0.05	−0.06	....	...	.	110	35	28.0	+3.4	+1.8	7.1	+1.9
22	Sk.	I	16	56	20.93	−0.26	−0.29	....	....	.	113	11.7	....	....	....	....	....
30	Sk.	.	17	39	55.40	−0.20	−0.22	0.48	−0.10	.	114	13	40.1	+0.7	+0.2	6.8	+1.5
Dec. 13	E.	I	18	51	21.27	−0.11	−0.12	....	....	.	114	13	3.8	+5.5	+4.2	6.2	+0.8
20	P.	I	19	29	25.05	−0.06	−0.07	....	....	.	113	20	22.8	+1.3	+0.2	5.1	−0.4
21	E.	I	19	34	48.20	−0.10	−0.11	....	....	.	113	10	0.9	+3.3	+2.1	5.9	+0.3
25	Sk.	I	19	45	31.72	−0.14	−0.15	....	....	.	112	47	6.7	+2.5	+1.4	6.4	+0.8
27	Sk.	I	20	6	46.14	−0.23	−0.23	....	....	.	111	53	11.8	+3.1	+2.2	6.5	+0.9
1876.																	
Jan. 14	E.	I	21	38	6.83	−0.26	−0.32	....	....	N.	105	53	8.7	+2.3	+2.3	....	....
21	P.	I	22	11	40.04	−0.08	−0.14	....	....	.	102	51	38.8	+3.1	+3.2	6.4	+0.3
24	S.	I	22	25	44.43	+0.05	−0.02	....	....	.	101	28	33.3	+3.1	+3.2	6.9	+0.7
26	E.	I	22	35	1.37	−0.18	−0.24	....	....	S.	100	31	36.8	+0.5	+0.5	....	....
Feb. 5	S.	I	23	20	28.02	−0.21	−0.26	....	....	S.	95	33	7.2	+2.8	+2.9	....	....
7	E.	.	23	29.4	.....	....	....	....	...	.	94	31	17.9	+0.2	+0.3	6.5	0.0
8	F.	I	23	33	50.19	−0.04	−0.09	....	....	S.	94	0	17.9	+4.2	+4.2	....	....
16	F.	I	0	9	4.62	0.00	−0.03	....	....	S.	89	49	3.5	−0.5	−0.6	....	....
17	S.	I	0	13	27.06	−0.11	−0.15	....	....	S.	89	17	32.6	+1.3	+1.4	....	....
18	P.	I	0	17	49.42	−0.06	−0.11	...	....	S.	88	46	0.7	+1.8	+1.9	....	....
19	E.	I	0	22	11.40	−0.17	−0.22	....	....	.	88	14	26.7	−0.9	−0.7	6.8	0.0
23	E.	I	0	39	38.47	−0.12	−0.16	....	....	.	86	8	49.7	+2.0	+2.0	8.0	+1.1
25	S.	I	0	48	21.62	−0.16	−0.19	....	....	S.	85	6	25.1	+2.2	+2.2	....	....
Mar. 6	E.	I	1	32	4.86	−0.17	−0.23	....	....	.	80	[illegible]	28.1	+2.9	+3.1	7.6	+0.2
9	P.	I	1	45	17.10	−0.09	−0.13	....	....	S.	78	35	3.2	+1.2	+1.2	....	....
21	P.	I	2	38	48.16	−0.04	−0.08	....	....	S.	73	11	35.9	+0.1	−0.1	....	....
22	E.	I	2	43	19.23	−0.20	−0.24	....	....	S.	72	46	56.6	+1.9	+1.7	....	....
Apr. 6	P.	I	3	52	12.63	−0.06	−0.11	....	....	.	67	30	28.0	+1.2	+1.2	9.2	+0.1
10	P.	I	4	10	49.26	−0.02	−0.03	....	....	.	66	25	28.5	+0.8	+0.8	9.0	−0.4
11	E.	I	4	15	28.63	−0.08	−0.10	....	...	S.	66	10	36.6	−0.6	−0.5	....	....
12	F.	I	4	20	8.22	−0.03	−0.06	....	....	.	65	56	22.5	+1.3	+1.3	9.5	−0.1
15	E.	.	4	34.1	....	....	....	....	....	S.	65	17	3.6	+0.8	+0.9	....	....
17	S.	I	4	43	24.21	−0.21	−0.27	....	....	.	64	53	51.1	+3.2	+3.3	9.2	−0.8
29	S.	I	5	38	21.76	−0.14	−0.23	....	....	S.	63	25	7.5	+2.3	+2.4	....	....
May 1	E.	I	5	47	16.33	−0.03	−0.11	....	....	.	63	18.8	. . .	....	....	....	....
4	P.	I	6	0	25.47	−0.06	−0.11	....	....	.	63	13	45.5	+2.0	+2.0	12.1	+0.2
13	P.	I	6	37	55.13	−0.07	−0.13	....	....	.	63	28	48.9	+1.0	+1.2	13.4	+0.1
15	P.	I	6	45	45.30	−0.06	−0.13	....	....	.	63	37	53.2	+1.3	+1.5	13.7	+0.1
20	P.	I	7	4	22.37	−0.05	−0.05	....	....	.	64	8	39.6	+1.7	+1.9	14.6	+0.1
23	S.	I	7	14	47.09	−0.32	−0.34	....	....	.	64	32	9.9	+1.2	+1.5	15.9	+0.8
29	E.	I	7	33	37.05	−0.08	−0.19	....	....	N.	65	28	45.0	+3.3	+3.6	....	....
June 1	P.	I	7	41	52.88	0.00	−0.06	....	....	.	66	0	52.4	+1.2	+1.8	17.8	+1.6
2	E.	I	7	44	26.54	−0.16	−0.20	....	....	.	66	12	3.3	+1.3	+2.0	17.8	+0.4
3	F.	.	7	46.9	.....	....	....	....	....	.	66	23	25.0	+0.4	+1.1	17.5	−0.3
27	F.	I	8	7	22.08	+0.08	−0.06	....	....	N.	71	8	31.8	+1.8	+2.2	....	....
29	P.	I	8	5	3.69	+0.04	−0.05	....	....	N.	71	29	12.9	+1.4	+2.1	....	....

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1876.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
July 19	E.	II	7	16	32.10	+ 0.14	−0.01	....	....	N.	73	50	2.6	+ 0.9	+ 1.9	....	....
21	S.	II	7	12	8.10	+ 0.27	+0.08	....	....	N.	73	54	56.5	+ 1.7	+ 2.4	....	....
24	F.	II	7	6	28.44	+ 0.24	+0.12	....	....	.	73	59	18.1	+ 0.3	+ 0.8	26.8	− 1.1
25	S.	II	7	4	52.21	+ 0.16	+0.06	....	....	N.	74	0	1.9	+ 2.1	+ 2.7	....	....
Aug. 8	E.	II	6	59	21.08	+ 0.02	−0.02	....	....	.	73	39.4	....	....	....	....	....
20	E.	II	7	17	29.74	+ 0.01	−0.09	....	....	.	73	8	36.6	− 0.6	− 0.7	19.6	+ 0.2
Sept. 14	F.	II	8	35	38.02	+ 0.06	−0.05	....	....	.	74	2	30.2	− 1.2	− 1.6	13.7	+ 0.2
18	F.	II	8	50	59.73	− 0.02	−0.11	....	....	.	74	35	24.8	− 2.7	− 3.2	12.6	− 0.2
19	S.	II	8	54	54.53	+ 0.04	−0.05	....	....	S.	74	44	51.4	− 0.5	0.0	....	....
26	F.	II	9	22	56.27	+ 0.06	−0.02	....	....	.	76	3	47.8	− 1.8	− 2.3	12.1	+ 0.3
27	S.	II	9	27	1.07	− 0.02	−0.11	....	....	S.	76	16	56.6	− 1.2	− 1.8	....	....
28	P.	II	9	31	6.92	− 0.01	−0.11	....	....	.	76	30	33.1	− 0.5	− 1.0	11.7	+ 0.2
Oct. 1	S.	II	9	43	29.82	+ 0.06	−0.10	....	....	S.	77	14	2.5	− 1.2	− 1.8	....	....
2	P.	II	9	47	38.86	− 0.10	−0.19	....	....	.	77	29	26.8	− 0.4	− 1.0	10.9	− 0.2
5	S.	II	10	0	10.67	− 0.02	−0.19	....	....	S.	78	18	13.7	− 1.0	− 1.5	....	....
6	P.	II	10	4	22.62	+ 0.11	+0.04	....	....	.	78	35	20.5	− 1.1	− 1.6	11.5	+ 0.9
8	P.	II	10	12	47.72	− 0.04	−0.13	....	....	.	79	10	48.0	− 1.9	− 2.4	11.0	+ 0.6
11	P.	II	10	25	29.38	+ 0.18	+0.10	....	....	.	80	6	59.6	− 1.9	− 2.7	10.6	+ 0.4
12	F.	II	10	29	43.91	+ 0.10	−0.01	....	....	.	80	26	31.4	+ 0.1	− 0.7	....	....
13	S.	II	10	33	58.81	+ 0.01	−0.10	....	....	.	80	46	23.7	+ 0.4	− 0.5	....	....
18	P.	II	10	55	18.52	+ 0.11	+0.01	....	....	.	82	30	54.5	− 1.2	− 1.9	10.1	+ 0.5
23	E.	II	11	16	44.58	+ 0.04	−0.05	....	....	.	84	23	15.9	− 0.7	− 1.6	....	....
26	P.	II	11	29	39.16	0.00	−0.08	....	....	.	85	33	54.5	− 1.3	− 2.3	9.9	+ 0.9
31	E.	II	11	51	15.52	− 0.03	−0.09	....	....	.	87	36	14.9	+ 1.1	+ 0.5	....	....
Nov. 1	F.	II	11	55	35.84	+ 0.10	+0.04	....	....	.	88	1	16.9	+ 0.4	− 0.2	....	....
7	P.	II	12	21	44.71	+ 0.11	+0.04	....	....	.	90	34	41.7	− 2.3	− 3.1	8.2	− 0.1
8	E.	II	12	26	7.49	− 0.03	−0.11	....	....	.	91	0	42.5	− 1.2	− 2.1	8.8	+ 0.6
9	S.	II	12	30	30.91	+ 0.03	−0.06	....	....	.	91	26	47.7	− 0.9	− 1.9	8.2	0.0
12	E.	II	12	43	43.96	+ 0.02	−0.07	....	....	.	92	45	28.7	+ 1.1	0.0	8.7	+ 0.7
23	S.	II	13	32	57.55	+ 0.04	−0.03	....	....	.	97	34	8.8	+ 1.0	+ 0.5	8.0	+ 0.5
Dec. 4	S.	II	14	23	48.34	+ 0.22	+0.17	....	....	.	102	10	27.0	+ 1.3	+ 0.9	7.3	+ 0.2
12	S.	II	15	2	6.28	− 0.04	−0.11	....	....	.	105	13	44.1	+ 1.6	+ 1.0	7.4	+ 0.6
19	F.	II	15	36	38.67	+ 0.01	−0.05	....	....	.	107	35	43.5	+ 0.8	+ 0.3	6.5	− 0.1
26	E.	II	16	12	8.79	+ 0.13	+0.07	....	....	.	109	35	54.1	+ 0.4	+ 0.1	6.2	− 0.2
1877.																	
Jan. 24	F.	II	18	46	36.81	+ 0.21	+0.19	....	....	.	112	44	9.0	+ 3.0	+ 2.9	7.3	+ 1.5
26	P.	II	18	57	24.33	+ 0.25	+0.23	....	....	.	112	36	13.4	− 0.6	− 0.7	5.9	+ 0.1
28	F.	II	19	8	10.28	+ 0.08	+0.06	....	....	.	112	25	35.5	− 1.4	− 4.5	7.5	+ 1.8
29	S.	.	19	13	32.73	+ 0.11	+0.09	0.40	−0.01	.	112	19	17.9	1.2	+ 1.2	5.8	+ 0.1
30	E.	II	19	18	54.61	+ 0.08	+0.07	....	....	.	112	12	17.5	+ 1.4	+ 1.5	5.1	− 0.6
Feb. 5	F.	II	19	50	53.24	+ 0.28	+0.27	....	....	.	111	16	13.7	− 0.3	− 0.3	6.2	+ 0.6
6	S.	.	19	56	10.08	− 0.02	−0.03	0.46	+0.06	.	111	4	39.0	+ 1.5	+ 1.5	5.4	− 0.2
7	P.	II	20	1	26.51	+ 0.14	+0.14	....	....	C.	110	52	24.8	+ 1.8	+ 1.8	....	....
9	F.	.	20	11	56.36	+ 0.16	+0.16	....	....	.	110	25	59.8	− 2.7	− 2.4	6.0	+ 0.5
12	E.	II	20	27	33.88	+ 0.20	+0.19	....	....	.	109	42	3.6	+ 2.6	+ 2.8	7.0	+ 1.5
14	S.	.	20	37	53.51	+ 0.05	+0.04	0.37	−0.01	.	109	9	47.0	+ 1.1	+ 1.2	6.1	+ 0.6
15	P.		20	43	1.93	+ 0.20	+0.19	0.39	+0.01	.	108	52	50.1	+ 2.1	+ 2.2	4.8	− 0.7
16	E.	II	20	48	9.08	+ 0.19	+0.18	....	....	.	108	35	17.9	+ 0.4	+ 0.7	5.7	+ 0.3
20	E.	II	21	8	26.40	+ 0.17	+0.15	....	....	.	107	20	2.1	+ 1.3	+ 1.4	5.7	+ 0.3
27	P.	.	21	43	12.62	+ 0.09	+0.08	0.35	−0.02	.	104	49	50.2	+ 0.3	+ 0.4	5.4	+ 0.1
28	P.	II	21	48	6.26	+ 0.19	+0.17	...	....	.	104	26	39.4	+ 0.7	+ 0.7	6.0	+ 0.7
Mar. 5	S.	II	22	12	18.05	+ 0.16	+0.16	...	....	.	102	25	0.1	+ 1.0	+ 1.2	6.6	+ 1.3
14	P.	.	22	54	50.96	+ 0.11	+0.19	0.43	+0.08	C.	98	25	50.1	+ 2.0	+ 2.0	....	....
Apr. 11	S.	II	1	2	49.96	− 0.09	−0.14	....	....	.	84	44	28.5	+ 0.6	+ 0.7	4.2	− 0.8
23	S.	II	1	58	14.10	− 0.03	−0.11	....	....	.	79	3	33.4	+ 0.9	+ 1.2	3.9	− 1.1
June 13	E.	I	6	12	42.48	0.18	−0.33	....	....	.	65	49	2.2	+ 0.6	+ 0.7	5.4	+ 0.4
19	S.	.	6	45	0.22	− 0.02	−0.17	0.37	0.00	.	65	58	59.1	+ 2.4	+ 2.3	5.4	+ 0.3
20	P.	I	6	50	22.32	− 0.08	−0.06	....	....	.	66	3	7.0	+ 0.8	+ 0.7	4.9	− 0.2
23	S.	.	7	6	25.47	+ 0.01	−0.11	0.42	+0.05	.	66	19	51.7	+ 2.4	+ 2.3	6.4	+ 1.3

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1877			h	m	s	s	s	s	s		°	′	″	″	″	″	″
July 30	P.	.	10	12	22.54	− 0.02	−0.13	0.37	−0.01	.	77	16	28.3	+ 0.5	+ 0.1	5.7	+ 0.1
Aug. 10	S.	I	11	2	42.33	+ 0.03	−0.09	....	....	.	82	25	28.0	+ 2.8	+ 2.0	5.9	+ 0.1
Sept. 10	F.	.	13	19.5	.....	....	....	....	....	N.	98	13	52.6	− 4.2	− 4.6	....	....
Oct. 5	S.	I	15	14	28.24	− 0.02	−0.08	....	....	.	109	18	49.9	+ 2.8	+ 2.7	8.0	+ 0.6
13	S.	I	15	53	26.00	− 0.14	−0.21	....	....	N.	111	58	47.5	− 0.5	− 0.7	....	....
Nov. 1	P.	I	17	29	29.07	+ 0.25	+0.24	....	....	.	115	46	43.3	+ 0.4	+ 0.5	7.7	− 1.2
3	F.	I	17	39	43.61	− 0.04	−0.05	....	....	.	115	56	42.3	+ 3.4	+ 3.4	9.9	+ 0.9
7	F.	I	18	0	11.48	− 0.07	−0.10	----	....	.	116	8	1.4	− 0.6	− 0.7	9.8	+ 0.5
12	E.	I	18	25	36.32	+ 0.04	0.00	....	....	.	116	6	20.5	+ 0.5	+ 0.6	10.3	+ 0.6
13	F.	I	18	30	39.00	− 0.03	−0.05	....	....	.	116	3	54.3	+ 1.3	+ 1.4	11.2	+ 1.5
19	P.	I	19	0	32.96	0.00	+0.01	....	....	.	115	34	45.1	− 0.6	− 0.8	9.4	− 0.8
20	E	I	19	5	27.41	− 0.04	−0.02	....	....	.	115	27	33.6	0.0	− 0.2	10.0	− 0.3
Dec. 3	P.	I	20	6	35.51	+ 0.10	+0.13	....	....	.	112	57	48.5	− 0.3	− 0.8	12.0	+ 0.3
8	F.	I	20	28	29.08	+ 0.16	+0.16	....	....	.	111	35	33.5	− 0.2	− 0.7	12.7	+ 0.4
9	P.	I	20	32	43.91	− 0.06	−0.05	....	....	.	111	17	43.0	+ 0.3	− 0.2	12.8	+ 0.3
14	E.	I	20	53	17.40	− 0.19	−0.16	....	....	S.	109	42	19.7	+ 2.1	+ 1.2	....	....
15	F.	I	20	57	15.50	− 0.08	−0.04	....	....	.	109	22	4.6	− 0.6	− 1.4	13.7	+ 0.3
18	E.	I	21	8	50.91	− 0.08	−0.07	....	....	S.	108	19	29.8	− 0.9	− 1.3	....	....
1878.																	
Feb. 4	E.	I	22	37	33.70	− 0.18	−0.11	....	....	S.	92	7	49.7	− 0.2	− 1.3	....	....
6	S.	I	22	35	15.26	− 0.06	+0.03	....	....	S.	91	53	24.7	+ 1.8	+ 0.7	....	....
7	P.	I	22	33	53.02	− 0.05	+0.03	....	....	S.	91	47	51.2	− 0.7	− 2.0	....	....
26	P.	II	21	51	15.38	+ 0.24	+0.27	....	....	S.	93	48	59.9	− 1.0	− 1.3	....	....
27	E.	.	21	49.4	.....	....	....	....	....	S.	94	2	46.8	− 0.4	− 0.6	....	....
Apr. 11	P.	II	22	36	45.27	+ 0.18	+0.10	....	....	N.	96	55	21.8	− 2.1	− 0.8	....	....
12	E.	II	22	39	53.29	+ 0.14	+0.06	....	....	N.	96	45	43.6	− 1.5	− 0.6	....	....
May 21	P.	II	1	3	24.47	+ 0.07	+0.04	....	....	N.	85	19	12.2	− 1.3	− 0.7	....	....
22	E.	II	1	7	26.03	− 0.18	−0.21	....	....	N.	84	56	57.4	− 0.9	− 0.3	....	....
26	E.	II	1	23	42.37	+ 0.04	+0.01	.. .	....	N.	83	27	23.3	− 1.8	− 1.3	....	....
June 3	E.	II	1	56	58.60	− 0.03	−0.09	....	....	N.	80	28	16.0	− 0.9	− 0.2	....	....
11	E.	II	2	31	18.11	− 0.01	−0.07	....	....	N.	77	34	16.6	− 1.1	− 0.4	....	....
12	F.	II	2	35	40.42	+ 0.03	−0.02	....	....	N.	77	13	13.1	+ 0.6	+ 1.2	....	....
19	E.	II	3	6	48.62	− 0.10	−0.19	....	....	N.	74	51	29.0	− 1.1	− 0.6	....	....
24	F.	II	3	29	39.24	− 0.10	−0.16	....	....	.	73	18.2	....	...	...	....	....
Sept. 13	S.	II	10	13	29.44	+ 0.06	+0.01	....	....	.	77	48	9.4	− 0.3	− 0.1	5.2	−0.3
15	E.	II	10	22	58.00	− 0.08	−0.12	....	....	S.	78	38	17.0	+ 0.6	+ 0.2	....	....
18	P.	II	10	37	5.81	+ 0.01	−0.04	....	....	C.	79	55	50.9	− 1.2	− 1.4	....	....
19	E.	II	10	41	47.03	− 0.01	−0.06	....	....	.	80	22	20.5	+ 1.8	+ 1.6	6.2	+ 0.8
27	P.	II	11	18	56.67	+ 0.11	+0.04	....	....	C.	84	3	2.1	− 0.1	− 0.7	....	....
Oct. 9	Pr.	.	12	14.0	.....	....	....	....	....	C.	89	53	59.0	− 0.9	− 1.2	....	...
13	Pr.	.	12	32.3	.....	....	....	....	....	.	91	53	13.9	+ 1.5	+ 1.4	5.2	0.0
15	S.	.	12	41	28.73	+ 0.23	+0.17	0.34	−0.01	.	92	52	48.9	+ 1.4	+ 1.2	6.0	+ 0.8
Nov. 3	S.	.	14	10	22.27	− 0.03	−0.09	0.34	0.00	.	101	56	55.3	− 1.4	− 1.5	5.4	+ 0.3
4	F.	.	14	15.2	.....	....	....	....	....	.	102	23	29.1	− 2.3	− 2.4	5.6	+ 0.5
10	Pr.	C.	14	44	23.40	− 0.21	−0.27	0.34	−0.01	C.	104	56	16.4	+ 0.5	+ 0.4	....	....
Dec. 19	S.	.	18	4	49.02	+ 0.12	+0.07	0.34	−0.02	.	113	56	54.6	+ 0.7	+ 0.6	4.5	− 0.5
23	S.	.	18	26	52.60	− 0.03	−0.11	0.48	+0.11	.	113	57	27.1	− 1.3	− 1.2	5.5	+ 0.5
1879.																	
Jan. 30	Pr.	.	21	46	56.33	+ 0.14	+0.04	0.48	+0.12	C.	104	58	18.0	− 0.7	− 0.5	....	....
Feb. 15	S.	.	23	2	54.11	+ 0.01	−0.08	0.41	+0.05	.	97	38	41.7	− 2.2	− 1.9	5.7	+ 0.4
21	S.	.	23	30	25.27	+ 0.05	−0.01	0.45	+0.09	.	94	37	50.6	− 1.1	− 1.0	5.9	+ 0.5
Mar. 5	S.	.	0	24	38.40	+ 0.13	+0.02	0.39	+0.01	.	88	25	34.8	+ 0.4	+ 0.8	5.6	+ 0.1
7	Pr.	.	0	33	37.90	− 0.03	−0.09	0.50	+0.12	.	87	23	22.6	+ 3.1	+ 3.6	8.1	+ 2.5
12	F.	I	0	56	8.46	− 0.03	−0.10	....	....	.	84	48	48.1	0.0	+ 0.4	6.3	+ 0.7
Apr. 8	Pr.	.	3	1	26.36	− 0.19	−0.26	0.63	+0.20	.	72	21	21.8	0.0	+ 0.4	8.4	+ 2.3
9	F.	I	3	6	16.48	− 0.18	−0.25	....	....	.	71	58	22.9	− 1.5	− 1.2	6.6	+ 0.5
12	Pr.	.	3	20	52.95	− 0.09	−0.15	0.54	+0.10	.	70	52	20.7	+ 2.0	+ 2.1	6.4	+ 0.2
24	Pr.	.	4	20	47.25	− 0.08	−0.12	0.55	+0.08	.	67	14	58.0	+ 1.0	+ 1.0	8.2	+ 1.7
May 3	F.	I	5	6	58.18	− 0.20	−0.29	....	....	.	65	28.8	....	....	....	....	....

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1879.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
May 7	F.	I	5	27	41.40	− 0.20	−0.24	....	....	.	64	58	59.1	+ 0.1	+ 0.2	7.4	+ 0.4
10	Pr.	.	5	43	15.42	− 0.12	−0.15	0.66	+0.13	.	64	43	52.7	+ 1.4	+ 1.3	8.4	+ 1.3
23	F.	I	6	50	14.32	− 0.30	−0.32	....	....	.	64	51	1.4	+ 0.7	+ 0.9	8.8	+ 1.1
24	S.	I	6	55	19.13	− 0.08	−0.13	....	....	.	64	56	24.2	+ 0.5	+ 0.7	7.4	− 0.3
28	S.	I	7	15	26.85	− 0.11	−0.19	....	....	.	65	24	34.9	+ 0.8	+ 0.9	8.4	+ 0.4
June 4	F.	I	7	49	50.58	− 0.16	−0.20	....	....	.	66	38	18.2	− 0.2	0.0	9.1	+ 0.8
5	S.	I	7	54	39.42	− 0.14	−0.18	....	....	.	66	51	13.8	− 0.7	− 0.5	8.6	+ 0.2
7	Pr.	I	8	4	12.05	− 0.23	−0.28	....	....	.	67	18	49.6	+ 0.5	+ 0.7	9.7	+ 1.2
10	P.	I	8	18	18.67	+ 0.09	+0.03	....	....	N.	68	4	16.6	− 1.2	− 0.8	....	....
13	S.	I	8	32	8.79	− 0.07	−0.14	....	....	.	68	54	27.9	+ 0.7	+ 1.1	9.1	+ 0.3
17	S.	I	8	50	9.75	− 0.12	−0.17	....	....	.	70	8	6.0	+ 1.2	+ 1.1	9.5	+ 0.3
21	S.	I	9	7	39.70	− 0.16	−0.20	....	....	.	71	28	48.0	+ 4.2	+ 4.4	9.7	+ 0.1
23	Pr.	I	9	16	12.76	− 0.15	−0.07	....	....	N.	72	11	27.2	+ 1.0	+ 1.3	....	....
28	F.	I	9	36	59.47	− 0.05	−0.12	....	....	.	74	4	19.4	+ 0.1	+ 0.3	10.6	+ 0.4
July 10	F.	I	10	23	14.28	− 0.14	−0.17	....	....	.	79	2	42.1	− 0.1	+ 0.6	11.9	+ 0.4
15	F.	I	10	40	57.61	− 0.07	−0.15	....	....	.	81	14	38.7	+ 0.1	+ 0.5	12.5	+ 0.3
16	P.	I	10	44	23.58	+ 0.03	−0.05	....	....	N.	81	41	23.8	+ 2.9	+ 3.2	....	....
17	Pr.	I	10	47	47.02	− 0.08	−0.16	....	....	N.	82	8	8.3	+ 0.4	+ 0.8	....	....
21	Pr.	I	11	0	57.47	− 0.06	−0.08	....	....	N.	83	55	46.1	+ 0.4	+ 0.7	....	....
22	F.	I	11	4	8.92	− 0.09	−0.20	....	....	.	84	22	44.6	+ 1.0	+ 1.3	14.1	+ 0.8
Aug. 5	P.	I	11	43	54.57	− 0.06	−0.11	....	....	N.	90	33	10.6	+ 0.2	+ 0.9	....	....
Sept. 8	F.	I	12	16	30.20	− 0.05	−0.03	....	....	N.	100	12	49.1	+ 1.5	+ 2.0	....	....
15	Pr.	I	12	6	4.94	+ 0.02	−0.06	....	....	N.	99	53	15.0	− 0.3	− 0.9	....	....
17	S.	I	12	2	12.82	+ 0.17	+0.08	....	....	N.	99	35	1.4	+ 0.6	+ 0.2	....	....
24	S.	II	11	45	12.31	+ 0.14	+0.03	....	....	N.	97	33	13.7	− 1.2	+ 0.3	....	....
25	P.	II	11	43	8.00	+ 0.21	+0.14	....	....	N.	97	13	46.9	− 2.1	− 2.9	....	....
30	Pr.	II	11	33	53.39	+ 0.16	+0.24	....	....	N.	95	30	48.7	− 0.6	− 0.4	....	....
Oct. 1	F.	II	11	32	20.93	+ 0.34	+0.43	....	....	N.	95	9	48.6	....	....	....	....
[illegible]	S.	II	11	30	55.80	+ 0.39	+0.48	....	....	.	94	49	6.3	− 0.6	− 0.2	30.0	+ 0.5
19	P.	II	11	28	54.48	+ 0.14	+0.09	....	....	S.	90	36	37.5	− 0.7	− 1.7	....	....
24	Pr.	II	11	35	49.82	+ 0.07	+0.05	....	....	S.	90	13	8.8	− 0.1	− 0.9	....	....
Nov. 9	P.	II	12	13	51.42	+ 0.13	+0.07	....	....	S.	91	23	49.4	− 1.3	− 2.7	....	....
1880.																	
Jan. 13	E.	.	16	38.7	....	....	....	....	....	S.	109	43	49.9	+ 2.3	+ 2.0	....	....
20	Pr.	II	17	13	34.93	+ 0.00	−0.08	....	....	.	110	55.2	....	....	....	....	....
22	S.	.	17	23	41.77	+ 0.05	−0.02	0.56	−0.03	.	111	10	53.9	+ 1.5	+ 1.4	9.0	+ 0.8
23	P.	II	17	28	46.54	− 0.10	+0.04	....	....	.	111	17	53.9	+ 1.0	+ 0.9	8.5	+ 0.3
Feb. 1	E.	II	18	15	0.60	+ 0.07	−0.10	....	....	N.	111	54	40.2	+ 1.2	+ 1.1	....	....
3	S.	.	18	25	22.83	+ 0.07	+0.04	0.65	+0.11	.	111	56	8.9	+ 0.9	+ 0.8	7.8	+ 0.2
13	E.	II	19	17	19.85	− 0.08	−0.14	....	....	N.	111	25	52.1	+ 2.1	+ 2.2	....	....
15	S.	.	19	27	41.64	+ 0.07	+0.02	0.52	+0.01	.	112	12	12.8	− 1.5	− 1.4	6.9	− 0.2
23	S.	.	20	8	49.40	+ 0.04	−0.03	0.50	+0.02	.	109	53	28.0	− 1.0	− 0.8	7.6	+ 0.7
Mar. 16	E.	II	21	57	37.83	+ 0.17	+0.13	....	....	.	103	19.4	....	....	....	....	....
22	S.	.	22	26	0.72	+ 0.09	+0.02	0.41	−0.01	.	100	56	19.9	+ 1.9	+ 2.3	5.4	− 0.7
24	E.	II	22	35	21.85	+ 0.29	+0.23	....	....	.	100	6	3.5	+ 0.3	+ 0.6	7.9	+ 1.9
30	S.	.	23	3	6.88	+ 0.01	−0.04	0.47	+0.07	.	97	29	0.3	+ 2.2	+ 2.4	6.3	+ 0.4
Apr. 8	P.	II	23	44	6.88	+ 0.07	−0.06	....	....	N.	93	19	52.8	0.0	+ 0.1	....	....
9	E.	II	23	48	38.14	− 0.01	−0.02	....	....	.	92	51	32.6	+ 1.6	+ 1.7	6.3	+ 0.6
27	S.	.	1	9	51.27	− 0.04	−0.07	0.41	+0.04	.	84	15	53.0	− 1.0	− 0.8	6.0	+ 0.6
29	E.	II	1	18	57.00	− 0.02	−0.04	....	....	N.	83	19	35.6	0.0	+ 0.2	....	....
May 2	P.	II	1	32	39.53	+ 0.11	+0.06	....	....	.	81	56.2	....	....	....	....	....
5	S.	.	1	46	27.24	− 0.03	−0.05	0.26	−0.10	.	80	34	15.6	+ 0.5	+ 0.6	4.7	− 0.6
11	E.	II	2	14	22.60	− 0.06	−0.09	....	....	.	77	56	16.8	− 0.9	− 0.8	7.0	+ 1.8
13	S.	.	2	23	47.78	− 0.02	−0.07	0.45	+0.09	.	77	5	45.2	+ 1.1	+ 1.1	5.2	0.0
14	P.	II	2	28	31.78	+ 0.03	−0.02	....	....	.	76	40	52.1	+ 1.1	+ 1.1	5.1	− 0.1
19	E.	II	2	52	26.10	+ 0.01	−0.05	....	....	N.	74	41	39.4	− 0.7	− 0.5	....	....
25	S.	.	3	21	42.03	− 0.09	−0.12	0.39	+0.03	.	72	30	59.7	− 1.8	− 1.5	5.1	0.0
26	P.	II	3	26	38.70	+ 0.01	−0.02	....	....	.	72	10	44.5	+ 0.4	+ 0.6	4.7	− 0.4
30	P.	II	3	46	36.37	+ 0.05	−0.01	....	....	C.	70	54	14.2	− 0.7	− 0.6	....	....

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1880.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
June 2	S.	.	4	1	46.52	+ 0.09	+0.03	0.42	+0.06	.	70	2	6.0	− 0.5	− 0.5	6.1	+ 1.1
Aug. 7	R.	.	9	40	43.24	+ 0.02	−0.10	0.27	−0.07	C.	74	37	22.8	+ 0.5	0.0	....	....
16	W.	I	10	23	43.79	+ 0.31	+0.19	....	....	N.	78	25	30.2	+ 5.0	+ 4.3	....	....
Sept. 4	W.	I	11	50	55.54	− 0.04	−0.25	....	....	N.	87	38	40.2	+ 4.9	+ 4.2	....	....
11	S.	.	12	22	27.84	− 0.02	−0.15	0.39	+0.04	.	91	14	4.7	+ 0.1	− 0.4	5.2	0.0
13	W.	I	12	31	28.45	+ 0.05	−0.08	....	....	N.	92	15	48.4	+ 2.1	+ 1.6	....	....
15	S.	.	12	40	29.48	0.00	−0.11	0.38	+0.02	.	93	17	22.7	+ 2.1	+ 1.7	5.4	+ 0.1
17	W.	I	12	49	31.39	− 0.08	−0.17	....	....	N.	94	18	44.7	+ 2.7	+ 2.5	....	....
20	R.	.	13	3	6.93	+ 0.02	−0.07	0.40	+0.04	.	95	50	8.7	+ 2.1	+ 2.0	5.5	+ 0.1
21	W.	I	13	7	39.51	− 0.05	−0.15	....	....	N.	96	20	26.1	+ 4.1	+ 3.9	....	....
25	W.	I	13	25	55.66	+ 0.12	+0.04	....	....	.	98	20	2.0	+ 2.2	+ 2.0	6.1	+ 0.7
29	W.	I	13	44	22.04	+ 0.01	−0.09	....	....	S.	100	16	50.9	+ 3.2	+ 2.8	....	....
Oct. 2	R.	.	13	58	20.30	+ 0.02	−0.07	0.44	+0.06	C.	101	42	3.9	+ 1.4	+ 1.1	....	....
6	R.	.	14	17	10.77	− 0.09	−0.18	0.39	+0.01	.	103	31	55.2	+ 1.2	+ 1.0	6.3	+ 0.7
7	W.	I	14	21	56.02	+ 0.03	−0.07	....	....	N.	103	58	37.3	+ 1.4	+ 1.2	....	....
11	W.	I	14	41	7.22	− 0.04	−0.14	....	....	.	105	41	58.0	+ 3.3	+ 3.0	5.9	+ 0.3
15	W.	I	15	0	36.66	+ 0.03	−0.06	....	....	N.	107	19	1.3	− 1.5	− 1.6	....	....
18	R.	.	15	15	26.18	+ 0.03	−0.03	0.43	+0.03	C.	108	27	21.6	+ 1.5	+ 1.5	....	....
23	W.	I	15	40	33.22	− 0.01	−0.07	....	....	N.	110	11	28.5	+ 2.5	+ 2.3	....	....
25	S.	.	15	50	44.64	− 0.02	−0.12	0.52	+0.10	.	110	49	25.8	+ 2.9	+ 2.7	6.4	+ 0.5
Nov. 8	W.	I	17	4	9.32	− 0.03	−0.13	....	....	.	114	6	52.0	+ 3.6	+ 3.6	7.0	+ 0.8
11	R.	.	17	20	15.48	− 0.13	−0.22	0.54	+0.08	C.	114	31	59.5	+ 1.0	+ 0.9	....	....
Dec. 2	W.	I	19	13	34.26	− 0.01	−0.04	....	....	.	114	21	38.4	+ 2.1	+ 1.8	7.9	+ 1.0
4	S.	I	19	24	11.58	− 0.02	−0.07	....	....	.	114	3	37.6	+ 1.6	+ 1.5	7.6	+ 0.7
9	R.	I	19	50	26.34	− 0.11	−0.25	....	....	C.	113	6	22.8	− 1.2	− 1.3	....	....
17	R.	I	20	31	19.21	− 0.11	−0.12	....	....	C.	111	1	0.8	− 0.4	− 0.6	....	....
22	W.	I	20	56	3.85	− 0.15	−0.20	....	....	S.	109	23	38.4	+ 4.0	+ 4.0	....	....
31	R.	I	21	38	56.71	+ 0.06	+0.05	....	....	C.	105	56	46.7	+ 2.1	+ 1.8	....	....
1881.																	
Jan. 26	S.	I	23	31	25.37	+ 0.01	+0.02	....	....	.	93	32	52.1	+ 0.9	+ 0.1	9.0	− 0.6
27	R.	I	23	35	27.32	− 0.11	−0.10	....	....	C.	93	1	59.0	− 1.0	− 1.9	....	....
28	W.	I	23	39	28.24	− 0.16	−0.15	....	....	.	92	31	6.9	+ 0.1	+ 0.3	9.5	− 0.3
Feb. 5	W.	I	0	10	57.89	− 0.08	−0.01	....	....	S.	88	23	32.7	+ 1.6	+ 1.2	....	....
6	E.	I	0	14	49.37	− 0.12	−0.13	....	....	.	87	52	42.3	− 0.4	− 0.7	10.2	− 0.8
12	R.	I	0	37	36.90	− 0.09	−0.13	....	....	.	84	49	44.9	− 0.4	− 0.8	12.7	+ 1.5
14	E.	I	0	45	4.43	− 0.06	−0.10	....	....	S.	83	49	44.6	− 1.4	− 1.5	....	....
16	R.	I	0	52	27.65	− 0.08	−0.12	....	....	S.	82	50	27.0	+ 1.7	+ 1.6	....	....
17	W.	.	0	56.1	....	....	....	....	....	S.	82	21	0.6	− 0.3	− 0.6	....	....
24	R.	I	1	21	14.90	− 0.28	−0.27	....	....	S.	79	1	9.6	+ 0.9	+ 0.2	....	....
Mar. 7	S.	I	1	58	22.79	− 0.15	−0.14	....	....	S.	74	14	57.2	+ 0.7	+ 0.5	....	....
11	S.	I	2	10	53.72	− 0.14	−0.18	....	....	S.	72	41	45.4	+ 2.1	+ 2.1	....	....
15	E.	I	2	22	41.60	− 0.17	−0.20	....	....	S.	71	15	26.5	+ 1.4	+ 1.5	....	....
25	W.	I	2	47	57.14	− 0.15	−0.10	....	....	S.	68	14	45.2	+ 0.5	+ 0.3	....	....
28	R.	I	2	53	59.29	− 0.17	−0.12	....	....	S.	67	31	48.7	+ 1.6	+ 1.6	....	....
Apr. 11	E.	I	3	8	12.81	− 0.19	−0.22	....	....	S.	65	40	59.2	+ 2.7	+ 3.4	....	....
23	E.	I	2	57	14.04	− 0.31	−0.23	....	....	.	66	48.0	....	....	....	....	....
30	W.	.	2	42.7	....	....	....	....	....	S.	68	49	45.4	+ 1.1	+ 1.7	....	....
May 24	E.	II	2	10	52.84	− 0.01	+0.06	....	....	N.	77	10	0.0	0.0	+ 0.2	....	....
26	R.	II	2	11	55.49	− 0.07	−0.02	....	....	N.	77	27	32.3	+ 0.4	+ 1.6	....	....
27	W.	II	2	12	38.80	− 0.09	−0.05	....	....	N.	77	34	40.6	+ 0.6	+ 2.0	....	....
30	R.	II	2	15	34.13	+ 0.02	+0.02	....	....	N.	77	49	47.8	+ 0.5	+ 1.7	....	....
June 15	R.	II	2	46	44.29	0.00	−0.01	....	....	N.	77	2	39.2	− 0.3	+ 0.8	....	....
17	E.	.	2	52.1	....	....	....	....	....	N.	76	45	45.5	+ 0.2	+ 1.3	....	....
19	R.	II	2	57	44.46	+ 0.02	0.00	....	....	N.	76	27	15.8	+ 0.6	+ 1.7	....	....
July 5	R.	II	3	50	36.95	+ 0.09	−0.02	....	....	N.	73	27	14.4	+ 1.3	+ 1.9	....	....
7	E.	II	3	58	3.11	+ 0.08	−0.03	....	....	N.	73	3	29.4	0.0	+ 0.4	....	....
13	R.	II	4	21	17.97	− 0.01	−0.08	....	....	N.	71	54	31.6	− 0.8	+ 0.1	....	....
15	E.	II	4	29	20.68	− 0.02	−0.11	....	....	N.	71	32	46.4	+ 0.3	+ 1.0	....	....
17	R.	II	4	37	31.74	− 0.02	−0.13	....	....	N.	71	11	50.7	+ 0.6	+ 1.2	....	....

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1881.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
July 27	E.	II	5	20	19.37	+ 0.03	−0.07	....	....	N.	69	43	55.7	+ 0.4	+ 0.6	....	....
Aug. 2	R.	II	5	47	16.88	+ 0.04	−0.08	....	....	N.	69	8	24.3	− 0.1	− 0.4	....	....
10	R.	II	6	24	23.86	+ 0.03	−0.09	....	....	.	68	46	3.7	− 2.0	− 2.0	9.3	− 0.2
14	R.	II	6	43	21.13	+ 0.06	−0.04	....	....	.	68	46	51.1	− 1.8	− 1.8	9.6	+ 0.8
19	R.	II	7	7	18.40	+ 0.06	−0.07	....	....	.	68	58	49.3	− 0.5	− 0.9	8.8	+ 0.3
22	R.	II	7	21	46.55	+ 0.05	−0.09	....	....	.	69	14	8.0	− 1.0	− 1.2	9.6	+ 1.2
26	R.	II	7	41	7.87	+ 0.06	−0.07	....	....	.	69	40	58.0	− 0.2	− 0.5	8.7	+ 0.6
30	R.	II	8	0	30.75	+ 0.09	−0.05	....	....	.	70	16	37.4	+ 0.2	− 0.3	7.3	− 0.6
Sept. 23	R.	II	9	55	19.25	− 0.01	−0.12	....	....	S.	76	43	41.2	− 0.5	− 1.2	....	....
Oct. 17	R.	II	11	45	45.18	+ 0.04	−0.06	....	....	S.	86	51	36.3	− 0.4	− 1.1	....	....
18	W.	II	11	50	17.78	+ 0.02	−0.07	....	....	S.	87	19	40.2	− 1.1	− 1.7	....	....
19	S.	II	11	54	50.38	+ 0.04	−0.05	....	....	S.	87	47	51.3	− 1.6	− 2.4	....	....
20	S.	II	11	59	22.87	− 0.02	−0.10	....	....	.	88	16	8.3	− 2.8	− 3.6	6.1	0.0
21	R.	II	12	3	55.52	+ 0.07	−0.01	....	....	S.	88	44	33.2	− 1.9	− 2.6	....	....
Nov. 3	W.	II	13	3	14.78	+ 0.09	+0.02	....	....	N.	94	56	57.5	− 0.9	− 1.3	....	....
13	S.	.	13	49	46.26	+ 0.13	+0.06	0.40	+0.02	.	99	36	6.7	+ 0.1	− 0.2	6.3	+ 0.6
14	R.	II	13	54	29.54	+ 0.12	+0.06	....	....	C.	100	3	6.6	− 0.3	− 0.7	....	....
15	W.	II	13	59	13.70	+ 0.09	+0.03	....	....	.	100	29	53.6	− 0.5	0.9	6.3	+ 0.7
16	E.	II	14	3	58.82	+ 0.27	+0.07	....	....	S.	100	56	30.4	+ 3.0	+ 2.6	....	....
24	E.	II	14	42	35.29	+ 0.24	+0.17	....	....	C.	104	18	55.7	− 0.7	− 0.8	....	....
Nov. 27	W.	II	14	57	21.40	− 0.01	−0.06	....	....	.	105	29	23.7	− 1.1	− 1.3	6.4	+ 0.9
Dec. 1	W.	II	15	17	19.35	− 0.04	−0.05	....	....	.	106	57	49.3	+ 0.2	+ 0.2	6.5	+ 1.1
8	R.	II	15	53	1.90	+ 0.14	+0.09	....	....	N.	109	14	50.7	− 3.1	− 2.1	....	....
16	R.	II	16	35	0.09	+ 0.01	0.00	....	....	C.	111	19	22.3	− 0.5	− 0.4	....	....
18	E.	II	16	45	40.08	− 0.12	−0.15	....	....	C.	111	44	30.5	+ 1.3	+ 1.5	....	....
23	S.	.	17	12	35.85	+ 0.03	−0.02	0.46	+0.08	.	112	35	55.8	+ 2.8	+ 2.9	5.2	0.0
1882.																	
Jan. 31	S.	.	20	43	17.96	+ 0.09	....	0.35	0.00	.	109	15	28.0	+ 1.7	....	4.0	− 1.0
Mar. [illegible]	R.	.	23	4	58.43	0.00	....	0.31	−0.02	C.	97	26	55.3	+ 3.2	....	....	....
3	W.	I	23	9	36.67	− 0.06	....	....	....	N.	96	57	43.6	+ 0.6	....	....	....
30	R.	.	1	12.8	....	....	....	....	....	C.	83	21	27.5	+ 2.4	....	....	....
31	W.	I	1	17	24.22	− 0.11	....	....	....	N.	82	51	44.6	− 1.6	....	....	....
Apr. 13	R.	.	2	17	55.41	− 0.04	....	0.37	+0.01	C.	76	45	19.2	+ 0.4	....	....	....
17	E.	I	[illegible]	37	0.93	− 0.16	....	....	....	.	75	2	11.8	+ 0.7	....	5.5	+ 0.3
25	E.	I	3	16	1.58	− 0.30	....	....	....	C.	71	54	32.6	− 0.7	....	...	....
May 1	R.	.	3	46	3.11	− 0.13	....	0.43	+0.05	C.	69	53	15.0	+ 0.3	....	....	....
3	E.	I	3	56	12.23	− 0.18	....	....	....	C.	69	16	59.8	− 0.6	....	....	....
9	R.	.	4	27	4.65	− 0.21	....	....	....	.	67	42	9.0	+ 1.5	....	5.8	+ 0.4
17	R.	.	5	9	5.00	0.00	....	....	....	.	66	10	46.1	+ 0.5	....	4.3	− 1.2
23	E.	.	5	41	0.78	− 0.12	....	....	....	.	65	30	44.4	− 0.6	....	6.2	+ 0.6
24	S.	.	5	46	21.34	− 0.06	....	0.48	+0.07	.	65	26	33.4	+ 0.1	....	5.1	− 0.5
29	R.	I	6	13	5.19	− 0.07	....	....	....	.	65	16	21.4	+ 0.4	....	6.2	+ 0.5
30	W.	I	6	18	25.81	− 0.04	....	....	....	.	65	16	27.9	− 0.4	....	6.1	+ 0.4
June [illegible]	R.	I	6	34	26.06	− 0.08	....	....	....	.	65	21	9.9	0.0	....	6.0	+ 0.2
8	E.	I	7	6	14.54	− 0.12	....	....	....	.	65	49	49.2	− 1.8	....	6.4	+ 0.5
14	R.	I	7	37	36.80	− 0.07	....	....	....	.	66	43	32.1	+ 0.2	....	5.6	− 0.4
21	S.	.	8	13	25.19	− 0.07	....	0.49	+0.05	.	68	15	50.9	+ 0.2	....	6.2	0.0
24	E.	I	8	28	27.17	+ 0.01	....	....	....	.	69	4	30.2	+ 0.6	....	6.3	0.0
26	R.	I	8	38	21.56	− 0.06	....	....	....	.	69	39	44.1	− 0.6	....	6.9	+ 0.6
27	W.	I	8	43	16.81	+ 0.06	....	....	....	.	69	58	10.0	− 1.2	....	7.0	+ 0.6
July 6	E.	I	9	26	28.16	− 0.27	....	....	....	.	73	6	34.8	− 0.2	....	7.6	+ 0.9
10	E.	I	9	45	3.32	− 0.06	....	....	....	N.	74	41	52.1	− 0.5	....	....	....
15	S.	I	10	7	46.45	− 0.20	....	....	....	.	76	49	24.0	+ 0.2	....	7.4	+ 0.4
24	R.	I	10	47	22.10	− 0.12	....	....	....	.	80	57	55.4	+ 0.7	....	8.4	+ 1.0
Sept. 15	W.	I	14	23	10.08	− 0.04	....	....	....	N.	106	48	31.1	+ 1.2	....	....	....
19	S.	I	14	39	7.82	+ 0.04	....	....	....	N.	108	25	29.5	+ 1.8	....	....	....
29	W.	I	15	18	38.79	− 0.10	....	....	....	N.	112	0	17.2	− 0.3	....	....	....
Oct. 3	S.	I	15	34	8.74	− 0.03	....	....	....	N.	113	13	51.6	+ 1.2	....	....	....
9	W.	I	15	56	48.00	0.00	....	....	....	N.	114	49	36.0	+ 1.8	....	....	....

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1882.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Oct. 14	W.	I	16	14	52.25	+ 0.03	....	....	....	N.	115	55	16.4	— 0.7	....	....	....
31	W.	I	17	5	39.42	— 0.15	....	....	....	.	117	58	18.8	— 0.6	....	20.4	— 0.3
Nov. 3	W.	I	17	11	57.44	+ 0.08	....	....	....	.	118	3	34.9	+ 0.1	....	21.9	+ 0.2
15	W.	I	17	24	45.32	+ 0.08	....	....	....	.	117	32.3	....	....	....	....	....
27	W.	I	17	13	22.08	+ 0.08	....	....	....	N.	115	24	6.9	+ 1.2	....	....	....
30	W.	I	17	7	6.63	+ 0.17	....	....	....	.	114	35.5	....	....	....	....	....
Dec. 5	W.	.	16	52	39.76	+ 0.28	....	2.26	—0.08	.	112	43	40.6	+ 1.2	....	31.6	— 0.7
11	W.	II	16	38	38.72	+ 0.22	....	....	....	S.	110	46	25.5	— 0.4	....	....	....
1883.																	
Feb. 20	S.	.	19	8.0	....	....	....	....	....	.	109	40	29.7	+ 0.1	....	11.7	— 0.2
27	E.	II	19	39	21.04	— 0.03	....	....	....	N.	109	12	19.0	+ 1.1	....	....	....
28	S.	II	19	43	53.74	+ 0.03	....	....	....	.	109	6	18.5	+ 1.7	....	10.8	— 0.2
Mar. 3	W.	II	19	57	35.26	0.00	....	....	....	.	108	45	11.9	+ 0.9	....	11.1	+ 0.5
4	S.	II	20	2	10.17	+ 0.06	....	....	....	.	108	37	9.4	+ 1.4	....	....	....
Apr. 2	R.	II	22	14	50.37	— 0.03	....	....	....	N.	101	16	39.9	+ 1.8	....	....	....
3	W.	II	22	19	20.18	— 0.13	....	....	....	N.	100	55	13.3	+ 0.5	....	....	....
26	R.	II	0	1	7.47	+ 0.22	....	....	....	N.	91	31	24.4	— 0.3	....	....	....
May 2	E.	II	0	27	26.39	+ 0.08	....	....	....	N.	88	50	49.4	+ 1.1	....	....	....
6	E.	II	0	45	1.64	+ 0.07	....	....	....	N.	87	2	57.4	— 1.6	....	....	....
8	R.	II	0	53	50.89	+ 0.22	....	....	....	N.	86	9	8.9	+ 2.1	....	....	....
9	W.	II	0	58	15.86	+ 0.17	....	....	....	N.	85	42	13.9	+ 0.2	....	....	....
11	S.	.	1	7	6.87	+ 0.07	....	0.54	+0.10	.	84	48	36.6	+ 0.1	....	6.9	+ 0.3
15	S.	.	1	24	54.39	+ 0.07	....	0.48	+0.05	.	83	2	16.3	— 1.0	....	6.7	+ 0.2
18	E.	II	1	38	20.81	+ 0.15	....	....	....	N.	81	43	41.4	— 0.6	....	....	....
23	S.	.	2	0	58.02	— 0.06	....	0.49	+0.07	.	79	35	48.0	0.0	....	6.7	+ 0.4
June 1	R.	II	2	42	34.45	+ 0.03	....	....	....	.	75	59	25.0	+ 1.2	....	7.7	+ 1.7
4	S.	.	2	56	44.07	+ 0.03	....	0.42	+0.01	.	74	52	22.3	— 1.9	....	6.0	0.0
13	R.	.	3	40	10.67	— 0.08	....	0.48	+0.07	.	71	51	18.6	— 0.3	....	6.0	+ 0.2
14	W.	.	3	45	5.89	— 0.01	....	0.40	0.00	.	71	33	17.4	+ 0.8	....	5.9	+ 0.1
18	W.	.	4	4	57.69	+ 0.02	....	0.40	0.00	.	70	25	52.4	+ 1.0	....	6.2	+ 0.5
20	S.	.	4	15	0.16	— 0.01	....	0.44	+0.04	.	69	55	7.3	+ 0.4	....	5.3	— 0.3
21	R.	.	4	20	2.95	— 0.09	....	0.42	+0.02	.	69	40	32.4	+ 0.9	....	5.8	+ 0.2
22	W.	.	4	25	6.95	— 0.01	....	0.39	—0.01	.	69	26	28.3	+ 0.3	....	6.1	+ 0.5
29	R.	.	5	1	2.05	— 0.14	....	0.45	+0.06	.	68	3	48.5	+ 1.8	....	5.9	+ 0.4
July 1	E.	II	5	11	26.00	— 0.01	....	....	....	.	67	45	29.1	+ 0.9	....	5.5	0.0
2	S.	.	5	16	39.03	— 0.05	....	0.42	+0.03	.	67	37	14.4	— 0.1	....	5.0	— 0.5
5	E.	II	5	32	22.50	+ 0.08	....	....	....	C.	67	16	20.3	— 0.4	....	....	....
6	S.	.	5	37	38.14	+ 0.05	....	0.46	+0.07	.	67	10	40.8	+ 1.1	....	5.1	— 0.3
11	R.	.	6	4	3.29	— 0.07	....	0.47	+0.08	.	66	52	4.2	— 1.3	....	5.4	+ 0.1
15	R.	.	6	25	16.82	— 0.03	....	0.45	+0.07	.	66	49	17.5	+ 2.5	....	6.4	+ 1.1
17	E.	II	6	35	54.25	+ 0.04	....	....	....	C.	66	51	54.1	+ 0.6	....	....	....
19	R.	II	6	46	31.42	— 0.01	....	....	....	C.	66	57	13.9	— 1.0	....	....	....
31	R.	II	7	49	49.16	+ 0.02	....	....	....	C.	68	25	35.5	+ 0.5	....	....	....
Aug. 6	E.	II	8	20	54.84	— 0.02	....	....	....	C.	69	44	19.5	— 0.2	....	....	....
10	R.	II	8	41	21.07	+ 0.07	....	....	....	C.	70	48	40.8	+ 2.8	....	....	....
20	R.	II	9	31	16.35	+ 0.08	....	....	....	C.	74	6	27.2	+ 1.7	....	....	....
Sept. 5	R.	.	10	47	46.57	— 0.14	....	0.49	+0.15	C.	80	50	22.6	— 0.3	....	....	....
Oct. 25	W.	.	14	35	4.38	+ 0.04	....	0.32	—0.03	.	104	37	12.4	+ 2.1	....	5.3	+ 0.2
Nov. 15	E.	I	16	21	47.42	0.02	....	....	....	C.	111	49	50.4	— 1.2	....	....	....
17	P.	I	16	32	24.44	0.03	....	....	....	C.	112	18	19.7	+ 0.6	....	....	....
19	E.	I	16	43	5.60	— 0.03	....	....	....	C.	112	44	11.9	+ 1.4	....	....	....
27	E.	I	17	26	25.14	— 0.03	....	....	....	C.	114	0	11.7	+ 3.5	....	....	....
Dec. 3	P.	I	17	59	19.58	+ 0.14	....	....	....	C.	114	26	45.8	+ 3.0	....	....	....
5	E.	I	18	10	19.44	— 0.07	....	....	....	C.	114	29	35.7	+ 0.7	....	....	....
6	S.	.	18	15	49.56	— 0.03	....	0.37	—0.02	.	114	29	53.6	+ 0.4	....	4.8	— 0.6
10	S.	.	18	37	48.62	— 0.11	....	0.41	+0.01	.	114	23	33.2	+ 0.9	....	5.6	+ 0.2
11	P.	I	18	43	18.00	+ 0.13	....	....	....	C.	114	20	5.8	+ 1.8	....	....	....
13	E.	I	18	54	14.76	— 0.15	....	....	....	.	114	10	53.4	+ 0.9	....	5.9	+ 0.4
28	W.	I	20	14	46.23	— 0.20	....	....	....	.	111	30	21.8	+ 2.8	....	6.4	+ 0.7
29	E.	I	20	20	0.13	— 0.06	....	....	....	.	111	14	13.7	+ 0.3	....	5.2	— 0.5

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1884.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Jan. 26	E.	I	22	37	20.65	− 0.21	....	....	....	C.	100	16	54.9	− 0.5	....	....	....
Feb. 1	P.	I	23	4	43.18	+ 0.05	....	....	....	.	97	19	31.8	+ 1.6	....	6.2	− 0.2
2	W.	I	23	9	13.55	− 0.08	....	....	....	S.	96	49	13.6	+ 0.8	....	....	....
15	E.	I	0	6	47.60	− 0.23	....	....	....	S.	90	4	31.0	− 0.5	....	....	....
21	P.	I	0	32	58.15	+ 0.04	....	....	....	S.	86	55	32.6	+ 0.7	....	....	....
Mar. 22	E.	I	2	45	7.12	− 0.10	....	....	....	S.	72	34	29.7	− 1.0	....	....	....
30	E.	I	3	21	30.87	− 0.29	....	....	....	S.	69	34	2.0	+ 0.3	....	....	....
31	S.	.	3	26	6.43	+ 0.02	....	0.65	+0.02	.	69	13	32.4	− 0.4	....	9.0	+ 0.1
Apr. 5	P.	I	3	49	8.36	0.00	....	....	....	C.	67	38	45.4	+ 2.4	....	....	
29	P.	I	5	38	59.53	+ 0.10	....	....	....	.	63	20	49.9	+ 0.3	....	11.5	− 0.1
30	E.	.	5	43.4	.....	....	....	....	....	S.	63	17	30.8	− 0.4	....	....	...
May 1	W.	I	5	47	46.26	+ 0.04	....	....	....	S.	63	14	49.4	+ 1.5	....	....	....
3	P.	I	5	56	25.96	+ 0.04	....	....	....	.	63	11	6.2	+ 0.5	....	11.8	− 0.3
12	W.	I	6	33	31.52	− 0.10	....	....	....	.	63	21	50.5	+ 0.8	....	13.8	+ 0.4
15	P.	I	6	45	2.44	+ 0.03	....	....	....	.	63	34	40.0	+ 0.8	....	13.8	− 0.2
16	W.	I	6	48	45.94	+ 0.02	....	....	....	.	63	39	52.9	+ 1.0	....	14.8	+ 0.6
17	E.	I	6	52	25.80	− 0.04	....	....	....	C.	63	45	32.1	+ 0.5	....	....	....
21	E.	I	7	6	26.84	− 0.10	....	....	....	C.	64	12	24.2	+ 0.1	....	....	....
23	P.	I	7	13	2.37	+ 0.02	....	....	....	.	64	28	11.7	+ 1.0	....	15.5	− 0.2
29	E.	I	7	30	52.45	− 0.08	....	....	....	C.	65	23	24.8	+ 0.5	....	....	....
June 2	E.	I	7	40	54.77	− 0.06	....	....	....	C.	66	5	28.4	+ 0.8	....	....	....
4	P.	I	7	45	17.89	− 0.03	....	....	....	.	66	27	39.6	+ 1.0	....	18.1	− 0.6
5	W.	I	7	47	19.21	0.00	....	....	....	.	66	38	58.9	+ 1.1	....	18.7	− 0.3
7	S.	I	7	51	0.28	+ 0.06	....	....	....	.	67	1	58.4	+ 0.7	....	19.7	0.0
9	W.	I	7	54	11.03	− 0.01	....	....	....	.	67	25	21.3	+ 1.7	....	20.3	0.0
16	P.	I	8	0	57.02	+ 0.09	....	....	....	.	68	47	59.4	+ 2.3	....	22.4	− 0.3
17	W.	I	8	1	18.84	− 0.15	....	....	....	.	68	59	40.9	+ 2.6	....	23.1	0.0
18	E.	I	8	1	31.39	− 0.14	....	....	....	N.	69	11	16.4	+ 1.6	....	....	....
20	P.	I	8	1	27.45	+ 0.01	....	....	....	.	69	34	11.6	+ 1.6	....	24.0	− 0.2
July 13	S.	II	7	16	54.80	− 0.10	....	....	....	N.	73	4	20.9	+ 2.1	....	....	....
14	W.	II	7	14	20.10	− 0.03	....	....	....	N.	73	9	20.2	− 0.1	....	....	....
16	S.	II	7	9	23.40	− 0.07	....	....	....	N.	73	18	15.2	+ 1.7	....	....	....
18	W.	II	7	4	49.40	+ 0.01	....	....	....	N.	73	25	32.9	+ 1.8	....	....	....
21	P.	II	6	58	52.58	+ 0.10	....	....	....	N.	73	33	26.9	+ 1.7	....	....	....
22	W.	II	6	57	10.15	+ 0.05	....	....	....	N.	73	35	17.2	+ 2.5	....	....	....
23	E.	II	6	55	36.74	+ 0.05	....	....	....	N.	73	36	41.2	+ 0.9	....	....	....
31	E.	II	6	48	56.87	+ 0.06	....	....	....	.	73	35	14.6	− 0.4	....	24.6	+ 0.1
Aug. 11	W.	II	6	56	18.12	− 0.15	....	....	....	.	73	10	5.7	− 0.2	....	21.1	+ 0.4
12	E.	II	6	57	48.70	− 0.04	....	....	....	.	73	7	26.3	− 0.5	....	20.0	− 0.4
18	P.	II	7	9	17.83	+ 0.08	....	....	....	.	72	53	16.0	− 1.0	....	18.8	+ 0.2
19	W.	II	7	11	34.76	+ 0.07	....	....	....	.	72	51	24.7	− 0.1	....	18.9	+ 0.6
20	E.	II	7	13	57.31	− 0.04	....	....	....	.	72	49	42.8	− 1.4	....	17.9	− 0.2
26	P.	II	7	30	1.66	+ 0.21	....	....	....	.	72	44	42.8	− 2.1	....	16.1	− 0.4
Sept. 2	S.	II	7	52	2.26	+ 0.03	....	....	....	.	72	53	8.7	− 1.1	....	15.5	+ 0.5
14	S.	II	8	35	37.59	− 0.01	....	....	....	.	73	53	53.2	− 1.8	....	12.8	− 0.2
18	S.	II	8	51	17.88	− 0.07	....	....	....	.	74	28	43.0	− 0.6	....	12.0	− 0.4
22	S.	II	9	7	21.74	+ 0.05	....	....	....	.	75	11	2.7	− 0.3	....	11.7	− 0.2
25	S.	II	9	19	36.79	+ 0.02	....	....	....	.	75	47	41.8	0.0	....	12.0	+ 0.5
Oct. 5	P.	II	10	1	21.23	+ 0.11	....	....	....	.	78	19.2	....	....	....	....	....
9	P.	II	10	18	19.31	+ 0.09	....	....	....	.	79	31	47.0	− 0.4	....	9.2	− 0.9
13	P.	II	10	35	23.62	+ 0.16	....	....	....	C.	80	50	28.7	− 2.0	....	....	....
21	S.	II	11	9	44.90	+ 0.04	....	....	....	.	83	44	19.5	+ 1.2	....	9.4	+ 0.3
22	P.	II	11	14	3.57	+ 0.07	....	....	....	C.	84	7	21.6	− 1.1	....	....	....
24	S.	II	11	22	41.41	+ 0.03	....	....	....	.	84	54	17.3	− 1.3	....	9.0	+ 0.1
31	E.	II	11	53	1.31	+ 0.17	....	....	....	S.	87	45	45.1	− 2.2	....	....	....
Nov. 2	P.	II	12	1	43.69	+ 0.12	....	....	....	C.	88	36	25.7	− 3.6	....	....	....
4	E.	II	12	10	27.37	+ 0.01	....	....	....	S.	89	27	46.8	− 0.5	....	....	....
9	S.	II	12	32	23.71	− 0.05	....	....	....	.	91	38	2.8	0.0	....	7.8	− 0.1
10	P.	II	12	36	48.49	+ 0.11	....	....	....	C.	92	4	18.3	− 2.6	....	....	....

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1884.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Nov. 11	W.	II	12	41	13.49	− 0.01	....	....	....	S.	92	30	41.6	− 0.6	....	....	....
12	E.	II	12	45	39.17	+ 0.03	....	....	....	S.	92	57	4.6	− 1.4	....	....	....
13	S.	II	12	50	5.31	0.00	....	....	....	.	93	23	31.9	− 0.6	....	7.5	− 0.3
14	P.	II	12	54	32.16	+ 0.12	....	....	....	C.	93	49	56.9	− 1.3	....	....	....
16	E.	II	13	3	27.46	+ 0.19	....	....	....	S.	94	42	49.3	− 2.3	....	....	....
21	S.	II	13	25	56.74	+ 0.03	....	....	....	.	96	54	30.5	+ 1.4	....	7.3	− 0.1
23	W.	II	13	35	1.60	+ 0.05	....	....	....	S.	97	46	38.5	+ 0.7	....	....	....
Dec. 1	W.	II	14	11	55.21	+ 0.04	....	....	....	S.	101	9	44.1	− 0.1	....	....	....
3	S.	II	14	21	18.36	+ 0.15	....	....	....	.	101	58	38.0	+ 0.3	....	6.7	− 0.3
4	P.	II	14	26	1.37	+ 0.07	....	....	....	C.	102	22	42.8	− 0.3	....	....	....
8	P.	II	14	45	4.84	+ 0.13	....	....	....	C.	103	56	22.3	− 1.4	....	....	....
9	W.	II	14	49	53.45	+ 0.05	....	....	....	S.	104	19	3.7	− 0.9	....	....	....
15	S.	.	15	19	10.21	+ 0.03	....	0.45	−0.01	.	106	27	57.3	+ 1.6	....	6.2	− 0.4
18	E.	II	15	34	4.82	+ 0.20	....	....	....	.	107	27.1	....	....	....	....	....
1885.																	
Jan. 8	S.	.	17	23	3.44	+ 0.05	....	0.42	−0.01	C.	112	12	32.9	+ 0.9	....	....	....
12	S.	.	17	44	32.03	+ 0.09	....	0.41	−0.02	C.	112	36	38.2	+ 1.5	....	....	....
20	S.	.	18	27	45.92	− 0.10	....	0.44	+0.02	C.	112	52	5.6	+ 0.9	....	....	....
25	P.	.	18	54	48.14	+ 0.25	....	0.37	−0.04	C.	112	39	12.9	+ 0.9	....	....	....
26	W.	II	19	0	11.74	+ 0.23	....	....	....	.	112	34	33.9	+ 1.1	....	5.3	− 0.4
28	S.	.	19	10	57.67	+ 0.11	....	0.32	−0.09	C.	112	23	10.9	+ 0.2	....	....	....
Feb. 1	S.	.	19	32	23.46	− 0.01	....	0.33	−0.07	C.	111	52	19.3	+ 0.6	....	....	....
11	E.	II	20	25	5.92	+ 0.06	....	....	....	N.	109	49	52.2	0.0	....	....	....
16	E.	II	20	50	50.53	+ 0.13	....	....	....	N.	108	26	19.8	+ 1.8	....	....	....
19	W.	II	21	6	3.71	− 0.05	....	....	....	.	107	29	45.0	+ 2.3	....	6.0	+ 0.6
27	W.	.	21	45	48.80	+ 0.02	....	0.31	−0.05	.	104	37	49.5	+ 0.5	....	5.6	+ 0.3
Mar. 15	W.	II	23	1	59.79	− 0.01	....	....	....	N.	97	42	58.4	+ 3.6	....	....	....
17	S.	.	23	11	16.29	+ 0.14	....	0.29	−0.05	C.	96	46	17.1	− 0.9	....	....	....
23	W.	.	23	38	51.24	+ 0.13	....	0.28	−0.06	.	93	52	30.3	+ 1.7	....	5.4	+ 0.3
25	S.	.	23	47	59.04	− 0.03	....	0.29	−0.05	C.	92	53	33.2	+ 1.0	....	....	....
29	S.	.	0	6	11.39	− 0.02	....	0.31	−0.03	C.	90	54	43.1	− 0.2	....	....	....
Apr. 2	S.	.	0	24	21.26	− 0.01	....	0.29	−0.05	C.	88	55	19.3	+ 2.3	....	....	....
19	P.	.	1	42	7.92	+ 0.19	....	0.29	−0.04	C.	80	38	25.5	− 1.9	....	....	....
June 9	W.	.	5	54	6.86	+ 0.03	....	0.40	+0.03	.	65	54	32.5	+ 1.1	....	5.4	+ 0.4
11	P.	I	6	4	53.01	+ 0.09	....	....	....	C.	65	50	0.8	+ 0.1	....	....	....
12	P.	I	6	10	16.25	+ 0.10	....	....	....	C.	65	48	49.0	+ 0.2	....	....	....
16	W.	.	6	31	48.81	+ 0.05	....	0.36	−0.01	.	65	51	18.2	+ 1.3	....	5.5	+ 0.4
18	S.	.	6	42	34.03	+ 0.02	....	0.39	+0.02	.	65	56	48.9	+ 0.1	....	4.2	− 0.9
19	P.	I	6	47	56.31	+ 0.15	....	....	....	C.	66	0	38.4	− 0.7	....	....	....
20	W.	I	6	53	18.00	+ 0.10	....	....	....	.	66	5	13.9	+ 1.8	....	5.4	+ 0.3
22	S.	.	7	3	59.94	+ 0.01	....	0.33	−0.04	.	66	16	24.9	− 0.5	....	5.2	+ 0.1
July 1	P.	I	7	51	34.72	− 0.13	....	....	....	C.	67	40	58.6	− 0.5	....	....	....
8	S.	.	8	27	42.46	− 0.04	....	0.37	−0.01	.	69	23	2.7	+ 0.7	....	4.9	− 0.4
9	P.	I	8	32	47.72	+ 0.07	....	....	....	C.	69	40	1.5	+ 1.0	....	....	....
15	E.	I	9	2	52.91	− 0.04	....	....	....	N.	71	33	26.9	+ 0.2	....	....	....
18	W.	I	9	17	38.57	− 0.06	....	....	....	.	72	37	8.4	+ 2.3	....	5.3	− 0.1
20	S.	.	9	27	22.80	+ 0.06	....	0.41	+0.03	.	73	21	54.1	+ 0.3	....	4.9	− 0.5
22	W.	I	9	37	1.90	+ 0.06	....	....	....	.	74	8	28.6	+ 0.7	....	5.7	+ 0.2
24	S.	.	9	46	35.85	− 0.15	....	0.39	+0.01	.	74	56	42.3	− 0.4	....	5.5	0.0
25	P.	I	9	51	21.27	+ 0.01	....	....	....	C.	75	21	26.2	+ 0.1	....	....	....
31	E.	I	10	19	28.76	+ 0.01	....	....	....	N.	77	57	24.1	− 0.4	....	....	....
Aug. 4	E.	I	10	37	52.56	− 0.17	....	....	....	N.	79	47	46.9	+ 0.1	....	....	....
11	W.	I	11	9	31.02	+ 0.06	....	....	....	.	83	10	38.7	+ 1.7	....	6.2	+ 0.4
12	E.	I	11	13	59.03	− 0.13	....	....	....	N.	83	40	23.7	− 0.5	....	....	....
20	E.	I	11	49	24.57	− 0.07	....	....	....	N.	87	43	44.6	+ 0.5	....	....	....
27	W.	.	12	20.1	....	....	....	....	....	N.	91	20	41.1	0.0	....	....	....
28	E.	.	12	24.5	....	....	....	....	....	N.	91	51	45.0	+ 0.5	....	....	....
31	W.	I	12	37	36.94	− 0.02	....	....	....	.	93	24	46.7	+ 1.5	....	6.5	+ 0.2
Sept. 4	W.	I	12	55	9.77	+ 0.04	....	....	....	N.	95	27	58.4	+ 0.5	....	....	....

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1885.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Sept. 17	W.	I	13	52	56.92	− 0.09	....	....	....	N.	101	53	31.5	+ 0.3	....	....	....
19	P.	I	14	1	59.95	+ 0.07	....	....	....	C.	102	49	41.5	+ 1.1	....	....	....
24	W.	I	14	24	51.61	+ 0.03	....	....	....	N.	105	4	57.4	+ 0.8	....	....	....
Oct. 10	W.	I	15	40	46.79	− 0.03	....	....	....	.	111	13	8.6	+ 0.9	....	8.2	+ 0.4
16	S.	I	16	10	22.73	− 0.02	....	....	....	.	112	58	47.1	+ 1.2	....	8.0	− 0.1
17	P.	I	16	15	22.01	+ 0.12	....	....	....	C.	113	14	19.8	− 1.3	....	....	....
22	W.	I	16	40	29.01	+ 0.05	....	....	....	.	114	23	4.5	+ 1.7	....	8.7	+ 0.3
26	E.	I	17	0	45.59	+ 0.05	....	....	....	.	115	6	27.6	+ 2.3	....	9.0	+ 0.4
27	E.	I	17	5	50.61	− 0.17	....	....	....	.	115	15	35.9	0.0	....	8.7	0.0
Nov. 4	E.	I	17	46	38.75	− 0.14	....	....	....	.	116	4	12.9	− 0.2	....	9.6	+ 0.3
5	S.	I	17	51	44.78	+ 0.14	....	....	....	.	116	7	10.7	+ 1.7	....	9.5	+ 0.2
12	E.	I	18	27	11.32	− 0.11	....	....	....	.	116	8	0.0	+ 1.8	....	9.9	0.0
16	E.	I	18	47	8.29	− 0.27	....	....	....	.	115	53	9.1	+ 0.3	....	9.8	− 0.4
17	S.	I	18	52	4.86	− 0.05	....	....	....	.	115	47	46.9	+ 2.2	....	10.1	− 0.2
20	E.	I	19	6	45.49	− 0.09	....	....	....	.	115	27	34.6	+ 1.0	....	11.1	+ 0.5
Dec. 11	S.	I	20	41	12.00	− 0.12	....	....	....	.	110	39	22.8	+ 1.9	....	13.3	+ 0.2
12	P.	I	20	45	14.35	+ 0.01	....	....	....	C.	110	20	17.8	− 1.8	....	....	....
15	S.	I	20	57	2.61	− 0.09	....	....	....	.	109	21	7.4	+ 1.1	....	14.4	+ 0.7
16	P.	I	21	0	52.60	+ 0.09	....	....	....	C.	109	0	44.0	+ 2.1	....	....	....
17	W.	I	21	4	39.16	+ 0.11	....	....	....	.	108	40	0.2	+ 1.0	....	14.6	+ 0.5
18	E.	I	21	8	22.11	− 0.13	....	....	....	S.	108	18	59.9	+ 0.6	....	....	...
21	W.	I	21	19	11.00	− 0.12	....	....	....	.	107	14	26.6	+ 0.9	....	16.1	+ 1.3
26	E.	I	21	35	59.16	− 0.19	....	....	....	S.	105	22	41.3	+ 0.1	....	....	....
29	W.	I	21	45	16.98	− 0.01	....	....	....	S.	104	13	55.1	− 1.7	....	....	....
1886.																	
Jan. 20	S.	I	22	29	52.82	+ 0.03	....	....	....	S.	96	11	6.6	− 2.0	....	....	....
22	W.	I	22	31	16.02	0.00	....	....	....	S.	95	35	4.0	+ 0.6	....	....	....
Feb. 8	E.	I	22	19	33.74	− 0.14	....	....	....	S.	92	39	47.5	− 3.9	....	....	....
9	S.	I	22	17	37.56	+ 0.04	....	....	....	S.	92	39	0.6	− 1.2	....	....	....
15	W.	.	22	4	11.95	+ 0.11	....	2.01	−0.07	S.	92	58	22.4	− 2.5	....	....	....
18	W.	II	21	56	56.83	− 0.05	....	....	....	S.	93	22	16.6	− 0.1	....	....	....
23	E.	II	21	43	28.36	+ 0.09	....	....	....	S.	94	29	39.4	− 3.7	....	....	....
26	W.	II	21	38	0.50	+ 0.20	....	....	....	.	95	8	43.6	− 2.4	....	29.9	+ 0.2
Mar. 2	W.	II	21	32	38.99	+ 0.12	....	....	....	.	96	1	18.3	− 1.0	....	29.9	+ 1.5
3	E.	II	21	31	41.63	+ 0.10	....	....	....	S.	96	14	3.9	− 0.4	....	....	....
4	S.	II	21	30	53.86	+ 0.08	....	....	....	.	96	26	31.5	− 1.1	....	27.9	+ 0.2
5	P.	II	21	30	15.78	+ 0.06	....	....	....	.	96	38	39.0	− 2.0	....	27.2	− 0.1
10	W.	II	21	29	30.31	+ 0.18	....	....	....	.	97	32	53.2	− 1.5	....	25.9	+ 0.5
16	S.	II	21	33	38.02	+ 0.18	....	....	....	N.	98	19	43.8	− 1.9	....	....	....
23	E.	II	21	44	25.88	+ 0.19	....	....	....	N.	98	44	55.2	− 1.5	....	....	....
Apr. 1	S.	II	22	5	32.53	− 0.02	....	....	....	N.	98	29	20.2	− 2.8	....	....	....
8	E.	II	22	25	55.35	+ 0.07	....	....	....	N.	97	42	15.7	− 2.2	....	....	....
13	S.	II	22	41	58.08	+ 0.06	....	....	....	N.	96	51	44.0	− 0.4	....	....	....
19	W.	II	23	2	26.85	+ 0.05		....	....	N.	95	34	19.3	− 3.3	....	....	....
21	S.	II	23	9	30.98	+ 0.05	....	....	....	N.	95	4	53.5	− 0.8	....	....	....
May 4	P.	II	23	57	37.30	+ 0.08	....	....	....	N.	91	16	19.8	+ 1.4	....	....	....
16	P.	II	0	44	26.17	+ 0.13	....	....	....	N.	87	4	36.8	− 0.6	....	....	....
29	W.	II	1	37	24.64	− 0.02	....	....	....	N.	82	12	9.8	− 0.9	....	....	....
June 4	S.	II	2	2	42.79	+ 0.15	....	....	....	N.	79	57	18.0	− 1.0	....	....	....
11	E.	II	2	32	58.57	− 0.07	....	....	....	N.	77	24	49.1	− 2.8	....	....	....
18	W.	II	3	4	8.41	− 0.03	....	....	....	N.	75	1	32.1	− 0.8	....	....	....
24	S.	II	3	31	37.47	0.00	....	....	....	N.	73	9	3.6	− 0.3	....	....	....
28	S.	II	3	50	21.09	- 0.06	....	....	....	N.	72	0	42.8	− 1.5	....	....	....
July 5	E.	II	4	23	53.25	− 0.03	....	....	....	N.	70	16	29.9	− 1.6	....	....	....
6	S.	II	4	28	45.25	− 0.06	....	....	....	N.	70	3	26.9	+ 2.3	....	....	....
11	P.	II	4	53	21.59	+ 0.04	....	....	....	N.	69	5	8.8	+ 0.1	....	....	....
16	W.	II	5	18	22.64	0.00	....	....	....	.	68	19	54.4	− 1.1	....	7.0	+ 0.3
18	S.	II	5	28	29.16	− 0.09	....	....	....	.	68	5	41.9	− 1.6	....	6.5	− 0.1
19	P.	II	5	33	33.73	- 0.02	....	....	....	C.	67	59	28.8	− 0.5	....	....	....

VENUS—Continued.

Date.		Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1886.				h	m	s	s	s	s	s		°	′	″	″	″	″	″
July	21	E.	II	5	43	44.89	− 0.04	....	....	....	N.	67	48	45.9	− 0.5	....	....	....
	25	E.	II	6	4	14.71	− 0.04	....	....	....	N.	67	34	32.2	− 0.3	....	....	....
	27	P.	II	6	14	32.62	− 0.01	....	....	....	C.	67	31	5.7	− 0.5	....	....	....
Aug.	2	E.	II	6	45	33.31	+ 0.03	....	....	....	.	67	35	47.6	− 2.3	....	6.4	+ 0.2
	3	E.	II	6	50	43.98	+ 0.11	....	....	....	.	67	38	48.7	− 1.4	....	6.4	+ 0.4
	4	P.	II	6	55	54.50	+ 0.04	....	....	....	C.	67	42	28.7	+ 0.4	....	....	....
	10	E.	II	7	26	55.34	− 0.01	....	....	....	.	68	17	33.0	− 2.6	....	6.4	+ 0.4
	31	S.	I	9	13	9.90	− 0.09	....	....	....	.	73	9	49.8	− 0.8	....	5.4	− 0.2
Sept.	16	S.	.	10	30	12.23	+ 0.05	....	0.43	+0.06	.	79	17	24.6	+ 0.1	....	6.0	+ 0.6
	20	S.	.	10	48	57.29	0.00	....	0.41	+0.05	.	81	3	21.7	+ 0.5	....	5.2	− 0.2
	27	E.	II	11	21	24.69	− 0.01	....	....	....	.	84	18	17.1	− 1.5	....	5.7	+ 0.4
	29	P.	II	11	30	37.25	+ 0.06	....	....	....	C.	85	15	46.3	− 0.2	....	....	....
	30	W.	II	11	35	12.98	+ 0.05	....	....	....	.	85	44	44.2	− 0.2	....	5.1	− 0.2
Oct.	1	E.	II	11	39	48.46	+ 0.06	....	....	....	.	86	13	51.0	+ 0.3	....	5.5	+ 0.2
	6	S.	.	12	2	42.65	− 0.11	....	0.39	+0.04	.	88	41	2.8	+ 1.0	....	6.3	+ 1.1
	8	W.	.	12	11	51.91	+ 0.08	....	0.29	−0.06	.	89	40	28.7	+ 1.6	....	6.2	+ 1.0
	10	S.	.	12	21	1.09	+ 0.09	....	0.34	0.00	.	90	40	3.0	+ 0.4	....	4.6	− 0.6
	11	P.	.	12	25	35.83	+ 0.09	....	0.31	−0.03	C.	91	9	53.2	+ 0.8	....	...	....
	12	W.	.	12	30	10.69	+ 0.05	....	0.29	−0.05	.	91	39	43.2	+ 0.8	....	5.0	− 0.2
	21	S.	.	13	11	38.46	+ 0.10	....	0.39	−0.05	.	96	6	24.1	+ 0.1	....	5.5	+ 0.4
Nov.	4	P.	II	14	17	46.61	+ 0.24	....	....	....	C.	102	38	16.0	+ 1.0	....	....	....
	15	S.	.	15	11	58.02	+ 0.05	....	0.31	−0.04	.	107	5	50.7	+ 1.5	....	4.6	− 0.4
Dec.	14	W.	I	17	40	15.30	+ 0.20	....	....	....	C.	113	42	48.8	− 0.7	....	....	....
	20	W.	I	18	13	17.92	+ 0.21	....	....	....	C.	113	59	6.9	+ 1.2	....	....	....
1887.																		
Jan.	11	S.	C.	20	12	54.01	+ 0.17	....	....	....	C.	111	13	23.3	+ 1.3	....	....	....
	12	P.	.	20	18	10.50	+ 0.24	....	0.32	−0.04	C.	110	57	55.6	− 0.6	....	....	....
	18	W.	I	20	49	23.73	+ 0.20	....	....	....	C.	109	12	42.2	+ 0.3	....	....	....
	27	S.	.	21	34	47.59	− 0.02	....	0.41	+0.05	.	105	58.4	....	....	....	....	....
Feb.	17	W.	I	23	14	32.39	+ 0.05	....	....	....	.	96	23	4.4	+ 0.1	....	6.6	+ 1.2
	24	S.	.	23	46	25.43	− 0.01	....	0.36	0.00	.	92	49	4.8	+ 1.8	....	5.5	+ 0.1
	28	S.	.	0	4	29.07	+ 0.01	....	0.43	+0.06	.	90	44	44.4	− 0.1	....	5.6	+ 0.1
Mar.	1	P.	.	0	9.0	....	....	....	....	....	C.	90	13	33.8	0.0	....	....	....
	8	S.	I	0	40	27.77	− 0.04	....	....	....	.	86	35	33.8	+ 0.8	....	6.4	+ 0.8
	11	E.	I	0	53	57.71	− 0.20	....	....	....	.	85	2	55.9	+ 0.9	....	6.3	+ 0.7
	16	S.	.	1	16	33.28	− 0.10	....	0.37	−0.01	.	82	30	48.2	− 0.3	....	5.1	− 0.6
	24	S.	.	1	53	6.91	0.00	....	0.36	−0.04	.	78	36	43.2	+ 0.2	....	5.4	− 0.4
	25	E.	I	1	57	43.87	− 0.12	....	....	....	S.	78	8	31.1	0.0	....	....	....
	26	W.	I	2	2	21.89	+ 0.08	....	....	....	S.	77	40	37.1	+ 1.2	....	....	....
	30	W.	I	2	21	0.94	− 0.05	....	....	....	.	75	51	57.5	+ 0.9	....	6.7	+ 0.7
Apr.	2	P.	I	2	35	9.33	+ 0.02	....	....	....	C.	74	33	57.9	− 1.0	....	....	....
	4	E.	I	2	44	39.26	− 0.14	....	....	....	S.	73	43	52.1	− 0.5	....	....	....
	8	E.	I	3	3	50.80	− 0.23	....	....	....	.	72	8	34.6	− 0.4	....	5.6	− 0.6
	11	W.	I	3	18	25.22	+ 0.12	....	....	....	S.	71	1	46.4	− 1.3	....	....	....
	12	E.	I	3	23	18.18	− 0.29	....	....	....	.	70	40	29.4	+ 0.2	....	6.0	− 0.3
May	12	P.	I	5	55	59.60	− 0.14	....	....	....	C.	64	34	37.4	− 0.1	....	....	....
	14	E.	I	6	6	19.55	− 0.15	....	....	....	N.	64	31	31.4	+ 1.4	....	....	....
June	16	E.	I	8	47	10.23	− 0.06	....	....	....	N.	69	54	53.9	+ 0.6	....	....	....
	18	P.	I	8	55	58.52	+ 0.15	....	....	....	.	70	33	47.3	+ 1.6	....	10.0	+ 0.5
	21	S.	I	9	8	55.31	− 0.15	....	....	....	N.	71	35	6.7	+ 0.4	....	....	....
	28	S.	I	9	37	56.03	− 0.11	....	....	....	N.	74	10	53.5	− 0.8	....	....	....
	30	S.	I	9	45	54.11	− 0.11	....	....	....	N.	74	58	13.5	+ 0.7	....	....	....
July	2	S.	I	9	53	43.42	− 0.09	....	....	....	N.	75	46	35.7	+ 1.4	....	....	....
	11	E.	I	10	27	4.22	− 0.10	....	....	....	N.	79	34	30.0	− 0.4	....	....	....
	12	S.	I	10	30	35.10	− 0.07	....	....	....	N.	80	0	34.8	− 2.5	....	....	....
	13	P.	I	10	34	3.82	+ 0.14	....	....	....	.	80	26	52.6	+ 1.6	....	11.6	− 0.7
	14	W.	I	10	37	29.86	+ 0.03	....	....	....	.	80	53	12.6	+ 1.8	....	13.2	+ 0.8
	16	S.	I	10	44	14.82	− 0.13	....	....	....	N.	81	46	7.3	+ 2.3	....	....	....
	30	W.	I	11	26	35.71	− 0.15	....	....	....	N.	82	57	12.2	+ 0.4	....	....	....

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1887.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Aug. 11	W.	I	11	54	17.55	+ 0.15	....	....	....	N.	92	54	10.1	+ 0.9	....	....	....
19	W.	I	12	6	37.44	+ 0.19	....	....	....	N.	95	44	19.5	+ 0.3	....	....	....
25	W.	I	12	11	35.98	+ 0.06	....	....	....	N.	97	27	40.7	+ 0.7	....	....	....
Sept. 8	S.	I	12	5	12.62	− 0.12	....	....	....	N.	99	16	23.4	+ 0.4	....	....	....
9	W.	.	12	3.8	....	....	....	....	....	N.	99	14	53.0	+ 1.4	....	....	....
Oct. 5	P.	II	11	16	54.32	+ 0.24	....	....	....	.	92	20	17.8	+ 0.1	....	27.5	− 0.1
6	W.	II	11	16	23.25	+ 0.27	....	....	....	.	92	3	7.6	+ 1.9	....	28.6	+ 1.3
11	S.	II	11	16	4.56	+ 0.14	....	....	....	S.	90	49	23.5	+ 1.0	....	....	....
12	P.	II	11	16	27.70	+ 0.15	....	....	....	.	90	37	19.8	− 0.2	....	25.0	− 0.2
13	P.	II	11	16	59.44	+ 0.16	....	....	....	.	90	26	14.7	+ 0.1	....	24.4	− 0.4
16	P.	II	11	19	24.28	+ 0.20	....	....	....	.	89	58	47.0	+ 0.3	....	23.8	+ 0.1
20	E.	II	11	24	24.51	+ 0.05	....	....	....	S.	89	35	42.2	− 0.7	....	....	....
Nov. 1	E.	II	11	49	21.86	+ 0.12	....	....	....	.	89	52	49.0	− 0.4	....	19.0	+ 0.5
3	P.	II	11	54	40.74	+ 0.06	....	....	....	S.	90	6	50.4	− 0.5	....	....	....
4	S.	II	11	57	26.30	+ 0.09	....	....	....	S.	90	14	54.2	− 0.5	....	....	....
11	E.	II	12	18	23.67	+ 0.02	....	....	....	S.	91	29	2.3	− 0.5	....	....	....
28	S.	II	13	18	9.20	+ 0.14	....	....	....	.	96	3	34.4	− 3.9	....	....	....
29	P.	II	13	21	58.33	+ 0.23	....	....	....	.	96	22	31.5	− 2.0	....	....	....
Dec. 5	P.	II	13	45	28.73	+ 0.12	....	....	....	.	98	19	36.1	− 2.2	....	....	....
6	S.	II	13	49	29.54	+ 0.01	....	....	....	.	98	39	34.6	− 0.6	....	....	....
8	S.	II	13	57	36.23	+ 0.08	....	....	....	.	99	19	40.9	− 1.4	....	....	....
12	P.	II	14	14	8.40	+ 0.21	....	....	....	.	100	40	19.1	− 2.1	....	....	....
15	P.	II	14	26	48.48	+ 0.22	....	....	....	.	101	40	36.5	− 3.7	....	....	....
18	P.	II	14	39	41.96	+ 0.13	....	....	....	.	102	40	21.6	− 0.1	....	....	....
22	P.	II	14	57	14.06	+ 0.09	....	....	....	.	103	58	11.8	− 2.6	....	....	....
23	S.	II	15	1	40.88	+ 0.17	....	....	....	.	104	17	18.3	+ 0.2	....	....	....
1888.																	
Jan. 3	S.	II	15	52	12.14	+ 0.02	....	....	....	S.	107	31	1.5	0.0	....	....	....
10	S.	.	16	25	50.63	+ 0.06	....	0.62	0.00	S.	109	13	23.8	+ 0.7	....	....	....
11	W.	II	16	30	44.31	+ 0.17	....	....	....	.	109	26	22.2	+ 2.2	....	9.3	+ 0.6
13	S.	.	16	40	34.93	+ 0.02	....	0.64	+0.03	S.	109	50	52.2	+ 1.0	....	....	....
15	W.	II	16	50	30.52	+ 0.20	....	....	....	.	110	13	27.5	+ 0.2	....	9.4	+ 1.0
19	S.	.	17	10	34.02	+ 0.10	....	0.61	+0.02	S.	110	52	32.5	− 0.5	....	....	....
27	W.	II	17	51	24.18	+ 0.21	....	....	....	.	111	44.3	....	....	....	....	....
Feb. 17	P.	II	19	40	26.84	+ 0.18	....	....	....	C.	110	53	39.0	− 1.4	....	....	....
Mar. 2	E.	II	20	51	39.36	+ 0.09	....	....	....	N.	107	50	47.7	− 0.6	....	....	....
6	E.	II	21	11	30.47	+ 0.23	....	....	....	.	106	39.2	....	....	....	....	....
7	S.	.	21	16	25.66	+ 0.02	....	0.49	+0.05	.	106	20	4.5	− 0.5	....	7.0	+ 0.6
8	P.	II	21	21	20.30	+ 0.22	....	....	....	C.	106	0	29.7	− 1.1	....	....	....
9	W.	II	21	26	13.79	+ 0.23	....	....	....	.	105	40	29.3	− 0.2	....	8.1	+ 1.8
14	E.	II	21	50	26.68	+ 0.20	....	....	....	N.	103	53	59.3	− 0.9	....	....	....
Aug. 2	W.	.	9	18	53.59	+ 0.01	....	0.26	−0.09	.	72	56	12.9	+ 1.8	....	5.3	+ 0.3
16	W.	.	10	26	16.19	0.00	....	0.27	−0.07	.	78	39	58.4	+ 1.4	....	5.3	+ 0.3
25	E.	I	11	7	56.95	− 0.13	....	....	....	.	82	54	25.8	+ 1.6	....	5.4	+ 0.3
28	S.	.	11	21	38.38	− 0.04	....	0.40	+0.06	.	84	23	10.3	+ 1.4	....	5.8	+ 0.7
30	S.	.	11	30	43.44	− 0.02	....	0.36	+0.01	.	85	23	10.1	+ 2.8	....	4.9	− 0.2
Sept. 12	S.	.	12	29	20.68	+ 0.02	....	0.34	−0.01	.	92	1	43.8	+ 1.8	....	5.2	− 0.1
13	P.	I	12	33	51.09	+ 0.19	....	....	....	C.	92	32	32.5	+ 0.5	....	....	....
14	W.	I	12	38	21.35	+ 0.06	....	....	....	C.	93	3	22.0	+ 2.3	....	....	....
20	W.	I	13	5	29.39	− 0.09	....	....	....	S.	96	6	41.7	+ 3.2	....	....	....
21	S.	.	13	10	2.28	+ 0.06	....	0.36	0.00	.	96	36	50.8	+ 0.7	....	5.0	− 0.4
26	W.	I	13	32	54.37	+ 0.01	....	....	....	.	99	5	32.6	+ 0.5	....	5.5	+ 0.1
Oct. 4	S.	.	14	10	8.87	0.00	....	0.40	+0.02	.	102	52	35.5	+ 0.9	....	6.0	+ 0.4
10	S.	.	14	38	45.20	0.00	....	0.30	−0.09	C.	105	30	38.3	+ 0.5	....	....	....
31	E.	I	16	24	23.36	− 0.03	....	....	....	C.	112	37	53.0	0.0	....	....	....
Nov. 6	W.	I	16	56	5.99	+ 0.02	....	...	....	.	113	53	6.4	+ 1.0	....	6.7	+ 0.5
20	W.	I	18	11	33.05	+ 0.13	....	....	....	.	115	9	32.7	+ 3.6	....	8.0	+ 1.4
22	E.	I	18	22	22.19	− 0.11	....	....	....	C.	115	8	33.2	+ 2.9	....	....	....
Dec. 5	E.	I	19	31	56.14	0.00	....	....	....	.	113	49	47.3	+ 1.5	....	7.2	+ 0.2

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1888.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Dec. 7	W.	I	19	42	25.62	+ 0.13	....	....	....	S.	113	26	58.0	+ 3.5	....	....	....
12	S.	.	20	8	17.15	− 0.16	....	0.45	−0.08	.	112	18	6.1	− 0.2	....	7.1	− 0.2
13	W.	I	20	13	23.61	0.00	....	....	....	.	112	2	27.3	+ 1.9	....	8.7	+ 1.4
14	S.	.	20	18	28.47	+ 0.01	....	0.63	+0.10	.	111	46	8.2	+ 0.6	....	8.0	+ 0.6
15	W.	I	20	23	31.86	+ 0.02	....	....	....	.	111	29	16.1	+ 2.6	....	8.6	+ 1.2
18	S.	.	20	38	32.74	− 0.16	....	0.56	+0.02	.	110	35	1.4	+ 1.2	....	7.8	+ 0.3
20	E.	I	20	48	25.63	− 0.20	....	....	....	S.	109	56	4.0	+ 1.2	....	....	....
22	S.	.	20	58	12.30	− 0.11	....	0.55	+0.01	.	109	14	59.5	+ 1.9	....	8.6	+ 0.9
24	E.	I	21	7	52.55	− 0.02	....	....	....	S.	108	31	52.9	+ 2.3	....	....	....
28	E.	I	21	26	53.35	− 0.20	....	....	....	S.	106	59	57.7	+ 2.4	....	....	....
29	W.	I	21	31	34.55	− 0.22	....	....	....	S.	106	35	52.9	+ 3.0	....	....	....
1889.																	
Jan. 2	S.	.	21	50	3.65	− 0.04	....	0.57	0.00	.	104	55	28.1	+ 1.8	....	8.6	+ 0.4
3	E.	I	21	54	36.91	− 0.04	....	....	....	S.	104	29	25.1	+ 1.5	....	....	....
7	W.	I	22	12	34.35	− 0.08	....	....	....	S.	102	41	53.0	+ 1.1	....	....	....
8	E.	I	22	16	59.81	− 0.14	....	....	....	S.	102	14	13.0	+ 0.3	....	....	....
10	W.	I	22	25	46.35	− 0.11	....	....	....	S.	101	18	7.0	+ 2.7	....	....	....
18	W.	I	22	59	54.64	− 0.03	....	....	....	S.	97	24	22.7	+ 1.9	....	....	....
19	S.	.	23	4	4.47	− 0.05	....	0.58	−0.04	.	96	54	20.1	+ 1.2	....	9.5	+ 0.2
22	S.	.	23	16	26.39	0.00	....	0.67	+0.03	.	95	23	27.2	+ 1.2	....	10.4	+ 0.9
23	E.	I	23	20	31.08	− 0.11	....	....	....	S.	94	52	56.5	+ 1.4	....	....	....
30	S.	.	23	48	31.83	− 0.15	....	0.69	+0.01	.	91	17	26.8	+ 1.2	....	10.4	+ 0.2
Feb. 1	E.	I	23	56	21.92	− 0.18	....	....	....	S.	90	15	39.7	+ 3.1	....	....	....
2	S.	.	0	0	15.52	− 0.01	....	0.75	+0.05	.	89	44	44.8	+ 1.5	....	10.5	+ 0.1
7	S.	.	0	19	26.25	− 0.11	....	0.75	+0.02	.	87	10	58.0	+ 0.6	....	12.1	+ 0.2
12	W.	I	0	38	9.71	0.00	....	....	....	S.	84	39	25.8	+ 1.6	....	....	....
13	E.	I	0	41	50.91	− 0.07	....	....	....	S.	84	9	30.7	+ 1.4	....	....	....
20	S.	I	1	7	6.32	− 0.14	....	....	....	S.	80	45	9.1	0.0	....	....	....
25	E.	I	1	24	29.42	− 0.24	....	....	....	S.	78	26	1.4	+ 1.1	....	....	....
Mar. 6	E.	.	1	54.0	....	....	....	....	....	S.	74	34	31.2	+ 0.2	....	....	....
9	E.	I	2	3	15.29	− 0.20	....	....	....	S.	73	23	56.7	+ 1.7	....	....	....
11	W.	I	2	9	10.36	− 0.08	....	....	....	S.	72	38	59.9	+ 3.4	....	....	....
12	S.	I	2	12	3.25	− 0.20	....	....	....	S.	72	17	7.9	+ 0.4	....	....	....
13	E.	I	2	14	53.13	− 0.16	....	....	....	S.	71	55	47.3	+ 1.5	....	....	....
26	W.	I	2	45	30.01	− 0.13	....	....	....	S.	68	6	12.2	+ 2.0	....	....	....
27	E.	I	2	47	15.40	− 0.15	....	....	....	S.	67	52	45.0	+ 1.0	....	....	....
30	E.	I	2	51	52.65	− 0.12	....	....	....	S.	67	16	40.7	+ 0.3	....	....	....
Apr. 8	E.	I	2	58	49.64	− 0.14	....	....	....	S.	66	13	1.5	+ 1.4	....	....	....
10	S.	I	2	58	45.23	− 0.10	....	....	....	S.	66	9	37.4	+ 2.4	....	....	....
22	W.	I	2	45	25.47	− 0.04	....	....	....	S.	67	32	28.7	+ 1.9	....	....	....
23	E.	I	2	43	28.07	− 0.18	....	....	....	S.	67	47	52.3	+ 2.1	....	....	....
May 5	S.	II	2	15	25.76	+ 0.04	....	....	....	S.	72	30	17.7	+ 1.1	....	....	....
6	W.	II	2	13	34.60	+ 0.15	....	....	....	S.	72	54	32.0	+ 2.3	....	....	....
16	E.	II	2	2	3.97	+ 0.06	....	....	....	N.	76	24	8.0	+ 3.5	....	....	....
17	S.	II	2	1	42.74	0.00	....	....	....	N.	76	40	2.8	+ 3.2	....	....	....
28	E.	II	2	7	10.31	− 0.04	....	....	....	N.	78	21	21.7	+ 2.5	....	....	....
June 5	S.	II	2	20	11.86	+ 0.10	....	....	....	N.	78	19	8.2	− 0.2	....	....	....
July 7	S.	II	3	57	59.54	+ 0.02	....	....	....	N.	72	59	37.3	+ 1.2	....	....	....
8	E.	II	4	1	50.77	+ 0.06	....	....	....	N.	72	47	31.4	− 1.2	....	....	....
9	S.	II	4	5	44.16	+ 0.02	...	....	....	N.	72	35	35.8	+ 0.1	....	....	....
11	S.	II	4	13	37.65	+ 0.08	....	....	....	N.	72	12	6.9	+ 0.8	....	....	....
Aug. 16	H.	II	6	54	43.77	− 0.11	....	....	....	S.	68	48	17.7	− 1.3	....	....	....
Nov. 3	E.	II	13	5	35.65	− 0.02	....	....	....	S.	95	12	4.3	+ 0.7	....	....	....
5	H.	II	13	14	49.47	− 0.05	....	....	....	S.	96	8	52.4	0.0	....	....	....
15	E.	II	14	1	40.05	− 0.03	....	....	....	S.	100	44	22.9	+ 0.9	....	...	....
25	S.	.	14	50	2.32	+ 0.16	....	0.45	+0.07	.	104	55	56.8	0.0	....	5.8	+ 0.3
Dec. 1	H.	.	15	19	56.57	+ 0.07	....	0.42	+0.04	.	107	9	48.1	+ 0.5	....	5.4	0.0
5	E.	II	15	40	16.45	+ 0.01	....	....	....	.	108	30	8.8	+ 1.0	....	5.3	− 0.1
6	H.	.	15	45	24.55	+ 0.03	....	0.41	+0.03	.	108	48	58.1	− 0.9	....	5.2	− 0.1

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1889.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Dec. 11	E.	II	16	11	22.06	+ 0.09	....	....	....	.	110	15	18.0	+ 1.4	....	5.8	+ 0.5
12	H.	.	16	16	37.01	+ 0.09	....	0.34	−0.04	.	110	30	53.7	+ 2.3	....	4.6	− 0.7
20	H.	.	16	59	13.76	+ 0.03	....	0.41	+0.03	.	112	13	34.3	+ 2.5	....	5.0	− 0.2
22	H.	.	17	10	2.02	+ 0.10	....	0.40	+0.03	.	112	32	46.2	+ 1.8	....	5.0	− 0.2
23	E.	II	17	15	27.09	− 0.02	....	....	....	.	112	41	20.8	+ 1.1	....	5.6	+ 0.4
25	H.	.	17	26	19.66	+ 0.22	....	0.50	+0.13	.	112	56	27.7	+ 1.3	....	5.0	− 0.2
27	H.	.	17	37	14.05	+ 0.06	....	0.45	+0.08	.	113	8	48.2	+ 2.8	....	5.4	+ 0.2
1890.																	
Apr. 2	S.	.	1	29	4.11	− 0.04	....	0.43	+0.09	.	81	36	35.7	− 0.2	....	6.8	+ 1.7
3	H	.	1	33	40.88	− 0.01	....	0.34	0.00	.	81	7	34.6	+ 1.4	....	5.9	+ 0.8
5	S.	.	1	42	56.14	− 0.10	....	0.38	+0.04	.	80	10	5.9	+ 0.6	....	5.5	+ 0.4
11	S.	.	2	10	59.76	− 0.08	....	0.40	+0.05	.	77	23	35.2	+ 1.4	....	6.6	+ 1.5
12	H.	.	2	15	43.41	− 0.07	....	0.37	+0.02	.	76	56	49.7	+ 2.0	....	5.5	+ 0.4
18	H.	.	2	44	24.56	− 0.18	....	0.34	−0.02	.	74	23	15.2	+ 1.2	....	5.4	+ 0.2
19	S.	.	2	49	15.02	− 0.15	....	0.40	+0.04	.	73	58	57.0	+ 1.1	....	4.6	− 0.6
21	H.	.	2	58	59.07	− 0.13	....	0.45	+0.09	.	73	11	32.2	− 0.9	....	6.1	+ 0.9
28	S.	.	3	33	37.55	− 0.09	....	0.49	+0.12	.	70	39	52.5	+ 1.0	....	5.8	+ 0.5
29	E.	I	3	38	38.99	+ 0.03	....	....	....	.	70	20	9.4	+ 0.6	....	5.2	− 0.1
May 1	E.	I	3	48	44.75	− 0.11	....	....	....	.	69	42	18.1	− 0.3	....	5.2	− 0.1
2	S.	.	3	53	49.27	− 0.15	....	0.37	- 0.01	.	69	24	12.2	0.0	....	5.7	+ 0.4
12	S.	.	4	45	30.09	− 0.14	....	0.44	+0.04	.	66	55	32.4	+ 0.6	....	5.6	+ 0.1
13	E.	I	4	50	45.08	− 0.16	....	....	....	S.	66	44	7.0	+ 0.6	....	....	....
17	E.	I	5	11	52.33	− 0.06	....	....	....	C.	66	5	6.8	+ 1.2	....	5.9	+ 0.2
28	H.	.	6	10	31.74	− 0.14	....	0.46	+0.04	.	65	15	23.5	− 0.7	....	6.1	+ 0.3
June 2	H.	.	6	37.2	.....	....	....	....	....	.	65	21	31.6	− 0.5	....	5.2	− 0.6
4	H.	.	6	47	49.43	0.00	....	0.49	+0.06	.	65	28	59.7	− 1.0	....	7.5	+ 1.3
19	E.	I	8	5	50.99	0.00	....	....	....	.	67	52	39.8	− 0.5	....	6.1	− 0.1
20	S.	.	8	10	54.55	− 0.02	....	0.55	+0.10	.	68	7	25.7	+ 0.5	....	7.7	+ 1.0
July 5	H.	I	9	24	2.46	+ 0.08	....	....	....	.	72	54	18.1	− 1.2	....	....	....
7	E.	I	9	33	22.95	− 0.11	....	....	....	N.	73	40	43.1	− 0.4	....	....	....
10	E.	I	9	47	13.36	− 0.21	....	....	....	N.	74	53	21.5	+ 0.9	....	7.1	+ 0.2
11	S.	.	9	51	47.51	− 0.14	....	0.58	+0.10	.	75	18	18.7	+ 0.4	....	8.1	+ 0.8
19	H.	I	10	27	33.33	− 0.21	....	....	....	.	78	49	56.5	+ 2.0	....	....	....
21	E.	I	10	36	17.64	− 0.11	....	....	....	N.	79	45	41.9	+ 1.1	....	7.2	− 0.2
22	S.	.	10	40	38.06	− 0.07	....	0.53	+0.03	.	80	13	56.7	+ 0.8	....	....	....
31	E.	I	11	18	54.51	− 0.10	....	....	....	N.	84	37	5.6	+ 2.6	....	....	....
Aug. 2	E.	I	11	27	14.74	− 0.05	....	....	....	N.	85	37	11.3	+ 0.1	....	....	....
13	H.	I	12	12	16.68	− 0.06	....	....	....	N.	91	13	7.5	+ 0.2	....	....	....
14	E.	I	12	16	19.03	− 0.13	....	....	....	N.	91	43	49.6	+ 1.1	....	....	....
15	H.	I	12	20	21.13	− 0.03	....	....	....	N.	92	14	28.6	+ 0.2	....	....	....
23	E.	I	12	52	25.12	− 0.07	....	....	....	N.	96	17	47.4	+ 0.6	....	....	....
30	E.	I	13	20	16.29	− 0.13	....	....	....	N.	99	44	44.3	− 1.0	....	....	....
Sept. 1	S.	I	13	28	12.42	− 0.20	....	....	....	.	100	42	21.4	+ 0.5	....	10.0	− 0.1
3	H.	I	13	36	8.20	− 0.23	....	....	....	N.	101	39	6.0	− 0.9	....	....	....
17	H.	I	14	31	30.18	− 0.11	....	....	....	N.	107	46	53.6	+ 1.0	....	....	....
18	H.	I	14	35	26.25	− 0.20	....	....	....	N.	108	10	45.0	− 0.5	....	....	....
19	S.	I	14	39	22.18	− 0.12	....	....	....	N.	108	34	17.6	+ 1.2	....	....	....
Oct. 8	H.	I	15	51	44.30	− 0.12	....	....	....	N.	114	39	49.5	− 1.0	....	....	....
15	E.	I	16	16	2.43	− 0.24	....	....	....	N.	116	10	24.6	− 0.1	....	....	....
17	E.	I	16	22	33.69	− 0.18	....	....	....	N.	116	31	33.1	+ 0.5	....	....	....
18	S.	I	16	25	44.27	+ 0.02	....	....	....	N.	116	41	19.0	+ 1.0	....	....	....
Nov. 5	S.	I	17	8	1.00	+ 0.06	....	....	....	N.	118	1	34.3	− 1.4	....	....	....
15	H.	I	17	13	11.57	+ 0.19	....	....	....	N.	117	21	13.2	− 0.5	....	....	....
18	E.	I	17	11	23.40	− 0.01	....	....	....	N.	116	55	0.2	− 2.3	....	....	....
19	H.	I	17	10	26.38	+ 0.12	....	....	....	N.	116	44	43.2	0.0	....	....	....
21	S.	I	17	8	1.27	+ 0.06	....	....	....	N.	116	21	36.2	− 0.9	....	....	....
22	H.	I	17	6	33.71	− 0.20	....	....	....	N.	116	8	48.1	− 1.5	....	....	....
24	S.	I	17	3	12.11	+ 0.07	....	....	....	N.	115	40	43.9	− 2.3	....	....	....
28	H.	I	16	54	56.81	− 0.10	....	....	....	.	114	35.3	....	....	....	....	....

VENUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1890.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Nov. 29	E.	I	16	52	38.86	+ 0.13	....	....	....	.	114	17.2	....	....	....	....	....
Dec. 8	H.	II	16	28	54.35	+ 0.21	....	....	....	S.	110	58	15.6	− 2.2	....	....	....
10	S.	II	16	24	51.32	+ 0.22	....	....	....	S.	110	19	35.0	+ 0.4	....	....	....
11	H.	II	16	23	0.45	+ 0.27	....	....	....	S.	110	0	56.4	− 2.6	....	....	....
14	S.	II	16	18	16.61	+ 0.22	....	....	....	S.	109	9	13.1	− 0.1	....	....	....
18	H.	II	16	14	5.94	+ 0.17	....	....	....	S.	108	11	47.2	− 0.7	....	....	....
19	E.	II	16	13	27.40	+ 0.08	....	....	....	S.	107	59	45.2	− 1.3	....	....	....
21	H.	II	16	12	40.13	+ 0.16	....	....	....	S.	107	38	39.5	0.0	....	....	....
23	S.	II	16	12	32.02	+ 0.27	....	....	....	S.	107	21	26.3	− 1.2	....	....	....
1891.																	
Jan. 2	H.	II	16	20	57.85	+ 0.16	....	....	....	S.	106	49	6.8	+ 1.4	....	....	....
6	H.	II	16	28	3.27	+ 0.06	....	....	....	S.	106	56	25.2	+ 0.5	....	....	....
7	E.	II	16	30	6.65	+ 0.11	....	....	....	S.	106	59	34.0	+ 0.6	....	....	....
9	H.	II	16	34	32.00	+ 0.05	....	....	....	S.	107	7	9.1	+ 2.1	....	....	....
14	H.	II	16	47	15.20	+ 0.13	....	....	....	S.	107	32	10.3	+ 0.1	....	....	....
29	E.	II	17	36	42.53	− 0.13	....	....	....	S.	109	3	8.9	+ 1.4	....	....	....
Feb. 4	H.	II	18	0	4.29	− 0.01	....	....	....	.	109	31	48.5	+ 1.7	....	13.9	0.0
Mar. 4	S.	II	20	3	23.08	+ 0.06	....	....	....	N.	108	39	49.7	+ 0.6	....	....	....
9	H.	II	20	26	32.38	+ 0.13	....	....	....	.	107	50	16.4	+ 0.9	....	10.8	+ 1.0
13	H.	II	20	45	4.55	+ 0.06	....	....	....	.	107	1	36.7	0.0	....	9.7	− 0.2
15	S.	.	20	54	20.11	+ 0.20	....	0.78	+0.13	.	106	34	21.9	− 1.5	....	9.8	+ 0.4
Apr. 6	H.	II	22	34	40.00	+ 0.02	....	....	....	N.	99	41	0.2	+ 0.2	....	....	....
12	S.	II	23	1	25.75	+ 0.30	....	....	....	N.	97	19	10.0	+ 1.4	....	....	....
19	S.	II	23	32	22.51	+ 0.14	....	....	....	N.	94	23	13.1	0.0	....	....	....
20	H.	II	23	36	46.64	+ 0.09	....	....	....	N.	93	57	21.8	− 1.1	....	....	....
24	S.	.	23	54	21.74	+ 0.08	....	0.55	+0.07	.	92	12	27.2	− 1.4	....	7.4	+ 0.3
30	S.	.	0	20	42.69	− 0.02	....	0.46	0.00	.	89	31	56.7	− 0.6	....	6.5	− 0.4
May 11	S.	.	1	9	15.35	+ 0.10	....	0.41	−0.03	.	84	35	4.1	+ 1.4	....	5.8	− 0.7
17	S.	.	1	36	3.25	− 0.10	....	0.48	+0.05	.	81	56	8.3	+ 0.8	....	6.3	− 0.1
June 1	S.	.	2	44	56.89	− 0.05	....	0.41	0.00	.	75	46	44.5	+ 1.3	....	5.9	− 0.1
9	H.	.	3	23	10.30	− 0.04	....	0.46	+0.06	.	72	56	21.4	+ 1.2	....	6.2	+ 0.4
10	E.	II	3	28	1.80	− 0.10	....	....	....	N.	72	36	47.5	+ 0.7	....	....	....
14	S.	.	3	47	39.21	− 0.05	....	0.39	−0.01	.	71	22	50.4	+ 0.7	....	6.0	+ 0.3
15	E.	II	3	52	36.36	− 0.02	....	....	....	N.	71	5	30.5	− 0.1	....	....	....
16	S.	.	3	57	34.60	− 0.01	....	0.38	−0.02	.	70	48	39.7	− 1.4	....	5.1	− 0.6
22	S.	.	4	27	46.88	+ 0.10	....	0.38	−0.02	.	69	18	3.3	− 0.1	....	4.3	− 1.3
23	E.	II	4	32	52.53	+ 0.04	....	....	....	N.	69	4	48.8	+ 0.3	....	....	....
24	S.	.	4	37	59.07	− 0.12	....	0.48	+0.08	.	68	52	8.6	− 0.2	....	6.1	+ 0.5
25	E.	II	4	43	6.89	+ 0.02	....	....	....	.	68	40	3.5	− 1.6	....	5.8	+ 0.3

OBSERVATIONS OF MARS.

1866–1891.

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MARS.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1866.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Nov. 26	T.	.	8	11	25.61	− 0.72	−0.04	0.45	− 0.02	.	67	30	24.8	− 0.1	+ 1.1	6.1	− 0.3
30	H.	.	8	12	10.34	− 0.81	−0.09	0.49	+ 0.01	.	67	21	30.0	− 0.2	+ 0.9	7.2	+ 0.6
Dec. 4	R.	II	8	12	1.08	− 0.73	+0.05	....	....	S.	67	9	34.8	− 0.1	+ 1.2	....	....
5	N.	.	8	11	49.94	− 0.77	+0.02	0.45	− 0.08	.	67	6	7.1	− 0.8	+ 0.5	6.2	− 0.7
8	T.	.	8	10	54.94	− 1.01	−0.18	0.55	+ 0.04	.	66	54	40.2	− 1.1	+ 0.3	8.6	+ 1.6
10	R.	.	8	10.0	....	....	....	....	....	.	66	46	9.5	− 1.1	+ 0.3	7.6	+ 0.5
12	R.	.	8	8.9	....	....	....	....	....	S.	66	37	2.2	+ 1.9	+ 3.3	....	....
14	R.	.	8	7	28.29	− 1.04	−0.14	0.51	− 0.02	.	66	27	11.8	− 1.5	− 0.1	7.0	− 0.3
17	R.	.	8	4	57.14	− 0.93	0.00	0.46	− 0.08	.	66	11	30.1	− 2.4	− 1.0	7.2	− 0.2
20	T.	.	8	1	54.97	− 1.13	−0.14	0.53	− 0.02	.	65	54	50.3	+ 0.7	− 1.4	8.0	+ 0.4
1867.																	
Jan. 8	T.	.	7	33	29.83	− 1.05	−0.03	0.54	− 0.05	.	64	6	56.9	− 1.2	− 0.6	8.8	+ 0.9
11	H.	.	7	28	16.85	− 1.09	−0.08	0.68	+ 0.09	.	63	53	16.2	− 0.6	− 0.1	8.5	+ 0.6
15	H.	.	7	21	26.13	− 1.07	−0.08	0.60	+ 0.02	.	63	37	41.6	+ 0.4	− 1.7	8.2	+ 0.4
18	H.	.	7	16	30.29	− 0.98	+0.01	0.61	+ 0.03	.	63	28	12.5	− 1.2	− 0.8	7.8	0.0
19	T.	.	7	14	54.70	− 1.21	−0.22	0.53	− 0.02	.	63	25	28.9	+ 0.1	+ 0.6	8.2	+ 0.5
23	T.	.	7	8	54.29	− 1.03	−0.07	0.58	+ 0.01	.	63	16	34.3	− 0.2	+ 0.1	7.8	+ 0.2
24	N.	.	7	7	30.15	− 0.97	−0.02	0.48	− 0.08	.	63	14	50.9	− 0.7	− 0.4	7.4	− 0.1
26	T.	.	7	4	49.76	− 1.04	−0.11	0.49	− 0.07	.	63	11	59.7	− 1.1	− 1.1	7.8	+ 0.4
28	N.	.	7	2	20.91	− 1.12	−0.18	0.51	− 0.04	.	63	9	54.7	− 0.8	− 0.9	7.5	+ 0.1
29	H.	.	7	1	11.28	− 0.96	−0.02	0.55	0.00	.	63	9	8.6	− 0.5	− 0.6	7.9	+ 0.6
31	N.	.	6	59	1.30	− 0.96	−0.01	0.56	+ 0.02	.	63	8	7.3	+ 0.3	+ 0.2	7.1	− 0.1
Feb. 1	H.	.	6	58	1.29	− 0.92	+0.03	0.54	0.00	.	63	7	50.5	− 0.1	− 0.4	7.6	+ 0.5
5	H.	.	6	54	35.66	− 0.84	+0.06	0.49	− 0.03	.	63	8	15.5	− 0.5	− 0.5	6.9	0.0
6	T.	.	6	53	53.01	− 0.87	+0.01	0.49	− 0.03	.	63	8	43.0	− 0.4	− 0.2	6.8	− 0.1
7	N.	.	6	53	13.91	− 0.92	−0.05	0.49	− 0.02	.	63	9	17.8	− 0.5	− 0.3	6.8	0.0
11	N.	.	6	51	13.54	− 0.90	−0.04	0.45	− 0.04	.	63	12	44.9	− 1.0	− 0.8	6.4	− 0.2
12	H.	.	6	50	52.54	− 0.80	+0.06	0.48	− 0.01	.	63	13	51.2	− 2.0	− 1.8	6.8	+ 0.3
18	T.	.	6	49	57.58	− 0.73	+0.03	0.41	− 0.05	.	63	22	27.7	− 0.4	− 0.2	5.7	− 0.5
22	H.	.	6	50	26.73	− 0.73	−0.02	0.50	+ 0.06	.	63	29	41.8	− 0.8	− 0.8	6.6	+ 0.7
26	H.	.	6	51	45.09	− 0.55	+0.11	0.41	− 0.02	.	63	37	58.8	− 1.7	− 1.8	6.0	+ 0.3
27	T.	.	6	52	11.88	− 0.61	+0.04	0.48	+ 0.06	.	63	40	14.2	− 0.2	− 0.4	6.5	+ 0.8
Mar. 18	N.	.	7	8	38.23	− 0.57	−0.13	0.36	+ 0.01	.	64	34	22.2	− 3.7	− 3.3	4.5	− 0.3
28	N.	.	7	22	3.95	− 0.28	+0.09	0.30	− 0.02	.	65	12	56.0	− 0.3	0.0	4.2	− 0.2
1869.																	
Jan. 16	F.	.	10	28.5	....	....	....	....	....	S.	76	5	52.7	− 1.5	− 2.2	....	....
19	F.	.	10	26	29.32	+ 0.19	+0.15	0.62	+ 0.16	.	75	48	4.7	+ 0.3	+ 0.4	6.4	+ 0.1
20	N.	.	10	25	42.76	+ 0.15	+0.08	0.44	− 0.03	.	75	41	38.9	− 0.4	− 0.4	6.5	+ 0.3
23	F.	.	10	23	5.39	+ 0.15	+0.01	0.56	+ 0.08	.	75	21	6.0	− 0.6	− 0.5	5.6	− 1.4
28	H.	.	10	17	46.75	+ 0.13	+0.05	0.52	+ 0.03	.	74	43	11.2	+ 0.4	+ 0.4	7.6	+ 0.4
Feb. 1	N.	.	10	12	46.14	+ 0.21	0.00	0.39	− 0.11	.	74	10	25.0	− 2.0	− 2.1	7.1	− 0.2
5	T.	.	10	7	11.81	+ 0.32	+0.03	0.42	− 0.09	.	73	36	36.6	− 2.7	− 3.0	8.1	+ 0.7
6	T.	.	10	5	43.91	+ 0.28	+0.07	0.47	− 0.04	S.	73	28	11.6	+ 1.3	+ 1.3	....	....
11	N.	.	9	58	6.60	+ 0.18	−0.03	0.50	− 0.02	.	72	46	26.6	− 0.2	− 0.5	7.4	0.0
12	F.	.	9	56	32.80	+ 0.24	+0.03	0.52	0.00	.	72	38	21.4	− 0.4	− 0.9	7.4	0.0
13	T.	.	9	55.0	....	....	....	....	....	.	72	30	24.5	− 0.4	− 0.5	8.1	+ 0.6
15	N.	.	9	51	50.14	+ 0.25	−0.03	0.44	− 0.08	.	72	14	57.2	− 1.1	− 0.9	7.2	+ 0.3
16	F.	.	9	50	16.12	+ 0.28	+0.03	0.59	+ 0.07	.	72	7	28.0	− 2.2	− 2.2	5.6	− 1.8
19	F.	.	9	45	37.02	+ 0.24	+0.03	0.72	+ 0.20	.	71	46	14.8	− 2.2	− 1.9	8.3	+ 0.9
20	T.	.	9	44	5.52	+ 0.12	−0.01	0.51	− 0.01	.	71	39	37.3	+ 1.2	+ 1.4	7.5	+ 0.1
26	F.	.	9	35	25.55	+ 0.13	−0.05	0.46	− 0.05	.	71	5	5.1	+ 1.3	+ 2.0	7.2	− 0.1
27	T.	.	9	34	5.02	+ 0.16	−0.06	0.52	+ 0.01	.	71	0	13.4	− 0.6	0.0	7.0	− 0.2
Mar. 5	F.	.	9	26	49.31	+ 0.13	−0.05	0.51	0.00	.	70	37	9.1	− 3.6	− 3.0	7.8	+ 0.8
12	F.	.	9	20	23.95	+ 0.11	−0.04	0.49	0.00	.	70	23	20.5	− 2.1	− 1.2	7.5	+ 0.8
15	N.	.	9	18	24.44	+ 0.19	+0.01	0.45	− 0.01	.	70	21	35.4	− 0.6	+ 0.2	5.7	− 0.8
17	T.	.	9	17	20.54	+ 0.23	+0.03	0.44	− 0.02	.	70	21	43.7	− 0.7	+ 0.3	7.2	+ 0.8
18	N.	.	9	16	53.25	+ 0.14	0.00	0.40	− 0.06	.	70	22	9.4	− 2.2	− 1.5	5.8	− 0.6
23	F.	.	9	15.4	....	....	....	....	....	S.	70	28	6.0	+ 0.6	+ 3.1	....	....
24	T.	.	9	15	15.69	+ 0.11	+0.01	0.40	− 0.03	.	70	29	54.9	− 2.7	− 0.6	5.5	− 0.6

MARS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1869.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Mar. 27	T.	.	9	15	7.90	+ 0.12	0.00	0.42	0.00	.	70	36	51.0	− 1.5	− 0.7	6.0	+ 0.1
31	T.	.	9	15	37.66	+ 0.13	−0.01	0.38	− 0.02	.	70	48	57.1	− 1.8	− 0.7	6.6	+ 1.0
Apr. 3	T.	.	9	16	28.61	+ 0.15	−0.01	0.41	+ 0.01	.	71	0	4.3	− 0.4	+ 0.4	6.0	+ 0.4
7	T.	.	9	18	12.61	+ 0.14	−0.08	0.39	0.00	.	71	17	23.4	− 1.3	− 0.5	5.6	+ 0.2
8	N.	.	9	18	44.84	+ 0.20	−0.04	0.32	− 0.06	.	71	22	10.0	− 0.8	+ 0.4	5.6	+ 0.2
9	F.	.	9	19	19.35	+ 0.16	−0.07	0.37	− 0.01	.	71	27	5.7	− 1.3	− 0.6	5.4	+ 0.1
13	F.	.	9	22	0.38	+ 0.16	−0.06	0.30	− 0.06	.	71	48	28.5	− 0.1	− 0.1	6.6	+ 1.4
16	F.	.	9	24	23.73	+ 0.04	−0.08	0.38	+ 0.03	.	72	6	8.1	− 2.2	− 1.1	5.4	+ 0.4
1873.																	
Mar. 16	F.	.	14	53	9.98	+ 0.40	....	0.60	+ 0.16	.	104	30	23.9	− 0.2	....	7.3	+ 0.9
Apr. 13	F.	.	14	39	34.77	+ 0.41	....	0.61	+ 0.04	.	104	0	11.8	+ 2.7	....	9.1	+ 0.8
May 13	E.	.	13	58	2.99	+ 0.27	....	0.78	+ 0.18	.	101	46	56.9	+ 2.9	....	10.1	+ 1.2
31	F.	.	13	43	35.99	+ 0.09	....	0.70	+ 0.15	.	101	14	53.8	− 0.5	....	8.9	+ 0.8
June 18	E.	.	13	45	36.43	+ 0.09	....	0.50	+ 0.01	.	102	2	49.7	+ 2.7	....	8.3	+ 1.2
Aug. 30	Hn	.	15	51	35.31	− 0.13	....	0.23	− 0.09	.	112	10	4.4	+ 0.5	....	4.4	0.0
Sept. 27	Hn.	.	17	10	38.76	+ 0.45	....	0.20	− 0.09	S.	114	54	14.2	− 2.3	....	3.5	− 0.4
1875.																	
Mar. 27	Sk.	.	17	24	24.01	+ 0.17	....	0.53	+ 0.15	.	112	57	3.9	+ 0.7	....	8.3	+ 2.9
Apr. 24	Sk.	.	18	6	19.42	+ 0.46	....	0.57	+ 0.05	.	114	5	20.3	− 0.6	....	7.2	+ 0.2
June 19	Sk.	.	17	53	43.86	+ 1.09	....	0.98	+ 0.11	.	117	23	28.7	− 1.4	....	12.8	+ 1.3
July 14	E.	.	17	24	24.48	+ 0.93	....	0.88	+ 0.04	.	117	57	14.3	+ 0.3	....	11.8	+ 0.6
30	E.	.	17	21	57.26	+ 0.76	....	0.80	+ 0.04	.	117	51	14.5	0.0	....	10.3	+ 0.2
Aug. 5	P.	.	17	25	6.95	+ 0.62	....	0.76	+ 0.04	.	117	47	57.9	+ 0.8	....	10.9	+ 1.3
9	P.	.	17	28	23.55	+ 0.64	....	0.70	0.00	.	117	45	37.1	− 0.2	....	9.4	+ 0.1
21	P.	.	17	43	8.95	+ 0.55	....	0.70	+ 0.06	.	117	36	26.6	+ 1.5	....	8.8	+ 0.4
25	P.	.	17	49	30.20	+ 0.56	....	0.60	− 0.02	.	117	31	57.4	+ 0.8	....	8.3	+ 0.1
26	Sk.	.	17	51	11.43	+ 0.46	....	0.72	+ 0.10	.	117	30	38.9	− 0.9	....	10.9	+ 2.8
30	P.	.	17	58	19.58	+ 0.57	....	0.60	0.00	.	117	24	48.3	+ 1.6	....	8.7	+ 0.8
Sept. 1	P.	.	18	2	6.49	+ 0.51	....	0.64	+ 0.06	.	117	21	18.2	− 0.3	....	8.2	+ 0.5
8	P.	I	18	16	22.30	+ 0.46	....	....	....	.	117	6	1.6	+ 0.3	....	7.6	+ 0.3
21	F.	I	18	46	16.17	+ 0.21	....	....	....	.	116	20	52.6	− 1.5	....	8.9	+ 2.4
Oct. 2	E.	.	19	14	6.02	+ 0.37	....	0.59	+ 0.15	.	115	21	54.3	+ 0.1	....	7.3	+ 1.2
9	P.	I	19	32	39.15	+ 0.33	....	....	....	S.	114	33	6.1	+ 0.2	....	....	....
20	P.	I	20	2	36.03	+ 0.29	....	....	....	S.	112	58	2.0	+ 1.0	....	....	....
21	F.	I	20	5	21.10	+ 0.12	....	....	....	.	112	48	17.0	+ 1.4	....	7.1	+ 1.8
Nov. 6	Sk.	.	20	49	45.72	+ 0.43	....	0.55	+ 0.21	.	109	47	37.8	+ 0.7	....	6.5	+ 1.7
12	P.	I	21	6	25.82	+ 0.22	....	....	....	S.	108	28	42.6	+ 2.4	....	....	....
1877.																	
July 29	S.	.	23	26	56.98	− 0.80	....	0.80	+ 0.04	C.	99	45	11.4	+ 5.3	....	....	....
30	P.	.	23	27	20.24	− 0.73	....	0.81	+ 0.05	C.	99	45	48.4	+ 5.2	....	....	....
Aug. 6	S.	.	23	28.6	....	....	....	....	....	C.	99	57	29.8	+ 5.4	....	....	....
18	F.	.	23	24.8	....	....	....	....	....	C.	100	43	12.3	+ 3.5	....	....	....
21	E.	.	23	22	48.72	− 0.88	....	0.93	+ 0.04	C.	100	57	59.1	+ 2.7	....	....	....
27	S.	.	23	17	45.14	− 0.92	....	0.94	+ 0.03	C.	101	29	6.5	+ 4.6	....	....	....
28	E.	.	23	16	47.84	− 0.95	....	0.94	+ 0.03	C.	101	34	17.4	+ 4.6	....	....	....
Sept. 1	F.	.	23	12	44.79	− 0.89	....	0.96	+ 0.04	C.	101	54	25.2	+ 6.1	....	....	....
3	F.	.	23	10	37.19	− 0.91	....	0.95	+ 0.03	C.	102	3	50.8	+ 6.1	....	....	....
15	F.	.	22	58.0	....	....	....	....	....	C.	102	42	59.1	+ 4.4	....	....	....
21	F.	.	22	52	54.54	− 0.79	....	0.92	+ 0.05	C.	102	47	8.0	+ 3.9	....	....	....
22	F.	.	22	52	10.90	− 0.83	....	0.86	0.00	.	102	46.6	....	....	....	....	....
24	F.	.	22	50	51.21	− 0.74	....	0.87	+ 0.02	C.	102	44	52.3	+ 3.6	....	....	....
26	P.	.	22	49	41.74	− 0.75	....	0.81	− 0.02	C.	102	41	46.5	+ 4.8	....	....	....
Oct. 1	F.	.	22	47	36.84	− 0.66	....	0.86	+ 0.07	C.	102	28	26.8	+ 5.3	....	....	....
2	P.	I	22	47	20.48	− 0.72	....	....	....	C.	102	24	50.3	+ 4.5	....	....	....
6	F.	.	22	46	45.16	− 0.82	....	0.83	+ 0.08	C.	102	7	26.1	+ 3.9	....	....	....
9	P.	.	22	46.9	....	....	....	....	....	C.	101	51	18.7	+ 3.5	....	....	....
12	F.	.	22	47	23.11	− 0.59	....	0.85	+ 0.14	C.	101	32	43.1	+ 2.9	....	....	....
14	P.	.	22	47	59.43	− 0.55	....	0.74	+ 0.04	C.	101	19	1.4	+ 2.9	....	....	....
15	E.	.	22	48	21.96	− 0.45	....	0.76	+ 0.07	C.	101	11	48.8	+ 3.6	....	....	....

MARS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1877.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Oct. 17	S.	.	22	49.3	....	....	....	....	....	C.	100	56	39.6	+ 3.6	....	....	....
18	P.	.	22	49	45.84	− 0.49	....	0.71	+ 0.04	C.	100	48	45.2	+ 4.4	....	....	....
23	E.	.	22	52	57.93	− 0.51	....	0.74	+ 0.11	.	100	5	57.9	+ 3.8	...	10.4	+ 1.1
24	P.	.	22	53	43.80	− 0.44	....	0.63	+ 0.01	.	99	56	49.2	+ 4.6	....	9.4	+ 0.3
31	E.	.	23	0	7.23	− 0.47	....	0.58	+ 0.01	.	98	47	36.6	+ 3.5	....	8.9	+ 0.5
Nov. 2	S.	.	23	2	15.76	− 0.45	....	0.74	+ 0.18	.	98	26	19.8	+ 4.0	....	9.7	+ 1.4
12	E.	.	23	14	48.92	− 0.14	....	0.66	+ 0.16	.	96	30	55.5	+ 2.9	....	8.1	+ 0.7
13	F.	I	23	16	13.11	− 0.31	....	....	....	N.	96	18	39.4	+ 3.1	....	....	....
16	E.	I	23	20	34.90*	− 0.27	....	....	....	.	95	41	7.9	+ 2.0	....	7.9	+ 0.8
19	P.	.	23	25	8.89	− 0.20	....	0.51	+ 0.05	.	95	2	40.6	+ 2.1	....	7.3	+ 0.4
Dec. 3	P.	.	23	48	41.80	− 0.20	....	0.43	+ 0.03	.	91	52	51.2	+ 3.7	....	6.4	+ 0.4
1879.																	
June 13	S.	II	0	17	47.88	− 0.02	....	....	....	.	90	29	37.9	+ 0.9	.. .	4.4	0.0
Aug. 1	P.	II	2	17	22.52	+ 0.36	....	....	....	N.	78	55	17.1	− 2.7	....	....	....
Oct. 13	Pr.	.	3	45.8	....	....	....	....	....	.	71	30	38.1	− 3.2	....	10.4	+ 0.7
Nov. 3	F.	.	3	23	36.30	+ 1.24	....	0.79	+ 0.06	.	71	43	41.5	− 3.0	....	11.6	+ 1.1
10	Pr.	.	3	12	58.10	+ 1.31	....	0.73	+ 0.01	.	72	0	25.4	− 4.8	....	11.1	+ 0.7
13	P.	.	3	8	23.71	+ 1.28	....	0.68	− 0.04	.	72	8	32.1	− 5.8	....	10.6	+ 0.3
14	Pr.	.	3	6	53.62	+ 1.15	....	0.76	+ 0.04	.	72	11	19.7	− 3.6	....	11.2	+ 0.9
22	Pr.	.	2	55	49.29	+ 1.19	....	0.74	+ 0.05	.	72	32	27.7	− 6.5	....	10.1	+ 0.2
Dec. 12	Pr.	.	2	40	47.84	+ 0.95	....	0.64	+ 0.06	.	72	53	4.9	− 4.0	....	8.6	+ 0.3
16	E.	.	2	40	23.73	+ 0.88	....	0.58	+ 0.02	.	72	48	42.2	− 4.4	....	7.1	− 0.8
1880.																	
Jan. 10	E.	.	2	55.3	....	....	....	....	....	.	71	20	55.7	− 3.7	....	6.8	+ 0.8
14	E.	.	2	59	57.87	+ 0.65	....	0.51	+ 0.11	.	70	59	42.8	− 2.5	....	6.6	+ 0.8
19	S.	.	3	6	30.52	+ 0.62	....	0.39	0.00	.	70	31	30.8	− 1.5	....	6.2	+ 0.7
21	E.	.	3	9	19.77	+ 0.63	....	0.43	+ 0.05	.	70	19	48.6	− 2.4	....	5.9	+ 0.5
Mar. 17	E.	I	4	59	58.02	+ 0.45	....	....	....	.	65	26	3.0	− 1.3	....	3.4	0.0
Dec. 21	W.	C.	16	47	44.51	+ 0.11	....	....	....	C.	112	41	1.5	+ 3.5	....	....	....
1881.																	
Feb. 4	W.	C.	19	12	22.44	− 0.05	....	....	....	C.	113	9	52.4	+ 0.3	....	....	....
Aug. 19	R.	II	4	36	13.84	− 0.30	....	....	....	C.	68	43	24.5	+ 2.4	....	....	....
Dec. 5	R.	.	6	58	2.31	+ 0.72	....	0.61	+ 0.02	.	64	26	14.3	+ 1.8	....	8.8	+ 3.4
1882.																	
Jan. 19	R.	.	5	51	50.54	+ 0.58	....	0.65	+ 0.11	.	62	53	9.7	0.0	....	8.4	+ 1.1
23	E.	.	5	49	4.73	+ 0.46	....	0.55	+ 0.03	.	62	56	40.7	+ 1.0	....	7.3	+ 0.2
27	E.	.	5	47	17.57	+ 0.44	....	0.59	+ 0.09	.	63	0	45.5	+ 0.4	....	7.8	+ 1.0
Feb. 1	S.	.	5	46	24.09	+ 0.50	....	0.54	+ 0.06	.	63	6	15.4	+ 0.3	....	6.6	+ 0.1
2	R.	.	5	46	23.60	+ 0.38	....	0.55	+ 0.08	.	63	7	23.4	+ 1.0	....	7.0	+ 0.6
6	R.	.	5	46	55.09	+ 0.47	....	0.54	+ 0.09	.	63	11	53.3	+ 1.7	....	7.8	+ 1.6
10	R.	.	5	48	16.55	+ 0.32	....	0.57	+ 0.13	.	63	16	20.6	+ 1.1	....	6.6	+ 0.7
15	W.	.	5	51	4.47	+ 0.46	....	0.47	+ 0.06	.	63	21	54.9	+ 1.0	....	6.8	+ 1.1
17	S.	.	5	52	30.74	+ 0.43	....	0.48	+ 0.07	.	63	24	9.5	+ 0.5	....	6.0	+ 0.5
23	W.	.	5	57	49.90	+ 0.39	....	0.46	+ 0.07	S.	63	31	8.7	+ 0.3	....	....	....
24	R.	.	5	58	51.36	+ 0.43	....	0.46	+ 0.08	.	63	32	22.1	+ 0.7	....	6.0	+ 0.8
25	S.	.	5	59	54.95	+ 0.41	....	0.43	+ 0.05	.	63	33	36.4	+ 0.7	....	5.6	+ 0.4
Mar. 25	W.	.	6	41.3	.....	....	....	....	....	.	64	26	11.0	+ 1.1	....	4.6	+ 0.6
26	R.	.	6	43	5.21	+ 0.38	....	0.30	+ 0.01	C.	64	29	1.1	+ 0.3	....	....	....
29	S.	.	6	48	35.64	+ 0.39	....	0.34	+ 0.06	.	64	38	6.7	+ 1.6	....	3.9	0.0
1884.																	
Jan. 29	W.	.	9	7	19.27	+ 0.86	....	0.63	+ 0.09	.	68	43	51.3	+ 5.5	....	9.0	....
Feb. 1	P.	.	9	2	25.47	+ 1.00	....	0.54	0.00	C.	68	22	26.9	+ 5.8	....	....	....
21	P.	.	8	33	34.66	+ 1.05	....	0.48	− 0.03	C.	66	49	59.1	+ 4.8	....	....	....
Mar. 4	P.	.	8	24	23.10	+ 1.11	....	0.37	− 0.10	C.	66	42	29.0	+ 2.9	....	....	....
10	E.	.	8	22	44.03	+ 0.87	....	0.50	+ 0.06	.	66	50	18.0	+ 2.0	....	6.5	+ 0.4
27	S.	.	8	27	45.19	+ 0.68	....	0.38	+ 0.01	.	67	44	35.7	+ 4.0	....	5.5	+ 0.2
28	P.	.	8	28	26.66	+ 0.81	....	....	....	C.	67	48	4.3	+ 4.5	....	....	....
Apr. 4	S.	.	8	34	17.97	+ 0.73	....	0.34	− 0.01	.	68	23	51.5	+ 2.3	....	5.1	+ 0.2

M A R S—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Correction to Le Verrier's Tables.	Vertical Semi-diameter.	Correction to Am. Eph.
1886.			h	m	s	s	s	s	s		°	′	″	″	″	″	″
Mar. 13	S.	.	11	3	3.70	+ 0.90	....	0.51	0.00	.	79	38	57.6	+ 4.6	....	8.5	+ 1.0
16	E.	.	10	58	48.37	+ 0.83	....	0.56	+ 0.05	.	79	18	4.4	+ 4.1	....	7.7	+ 0.3
17	S.	.	10	57	25.95	+ 0.89	...	0.47	− 0.04	.	79	11	35.7	+ 4.5	....	7.7	+ 0.3
24	E.	.	10	48	38.31	+ 0.89	....	0.58	+ 0.08	.	78	33	44.1	+ 4.5	....	7.5	+ 0.2
Apr. 8	W.	.	10	36	35.76	+ 0.85	....	0.49	+ 0.04	.	78	2	17.3	+ 3.3	....	7.4	+ 0.8
9	E.	.	10	36	10.65	+ 0.76	....	0.49	+ 0.04	.	78	2	36.7	+ 1.7	....	6.3	− 0.3
14	S.	.	10	34	49.85	+ 0.70	....	0.43	0.00	.	78	8	38.8	+ 1.7	....	6.7	+ 0.4
15	P.	.	10	34	42.55	+ 0.84	....	0.46	+ 0.03	C.	78	10	42.2	+ 3.1	....	....	....
17	E.	.	10	34	36.08	+ 0.73	....	0.43	+ 0.01	.	78	15	32.2	+ 1.7	....	6.4	+ 0.2
23	P.	.	10	35	22.20	+ 0.91	....	0.38	− 0.02	C.	78	36	6.1	+ 2.0	....	....	....
1890.																	
June 3	S.	.	16	5	43.67	+ 0.64	....	0.77	+ 0.02	.	113	0	11.2	− 1.3	....	10.6	+ 0.2
4	H.	.	16	4	16.39	+ 0.54	....	0.81	+ 0.06	C.	112	59	13.3	− 2.4	....	....	....
7	H.	.	16	0	2.60	+ 0.73	....	0.84	+ 0.09	C.	112	56	7.5	− 1.5	....	....	....
9	E.	.	15	57	21.19	+ 0.63	....	0.77	+ 0.02	C.	112	53	54.4	− 1.2	....	....	....
14	H.	I	15	51	15.60	+ 0.55	....	....	....	C.	112	48	19.1	− 0.5	....	....	....
19	E.	.	15	46	18.23	+ 0.64	....	0.76	+ 0.03	C.	112	43	35.0	− 1.4	....	....	....
20	S.	.	15	45	28.19	+ 0.66	....	0.66	− 0.07	.	112	42	50.3	− 1.7	....	9.8	− 0.2
23	E.	.	15	43	18.15	+ 0.54	....	0.82	+ 0.11	.	112	41.2	....	....	....	....	....
24	S.	.	15	42	41.85	+ 0.61	....	0.72	+ 0.01	.	112	40	48.9	− 1.2	....	9.7	− 0.1
25	E.	.	15	42	8.98	+ 0.58	....	0.70	0.00	C.	112	40	35.1	− 0.3	....	....	....
26	S.	.	15	41	39.73	+ 0.61	....	0.68	− 0.02	.	112	40	25.8	− 1.7	....	9.6	− 0.1
27	E.	.	15	41	13.93	+ 0.53	....	0.70	0.00	C.	112	40	25.1	− 1.8	....	....	....
30	E.	.	15	40	18.23	+ 0.51	....	0.75	+ 0.06	C.	112	41	8.1	− 1.2	....	....	....

OBSERVATIONS OF JUPITER.

1866–1891.

JUPITER.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1866.			h	m	s	s	s	s		°	′	″	″	″	″
May 6	H.	.	20	17	15.67	+ 0.34	1.34	− 0.12	.	110	0	53.4	− 4.2	17.5	− 2.4
June 11	N.	.	20	15	11.06	+ 0.59	1.61	− 0.02	.	110	14	29.6	− 4.1	21.8	− 0.4
12	R.	.	20	14	53.63	+ 0.55	1.65	+ 0.01	.	110	15	33.6	− 7.3	22.3	+ 0.1
13	H.	.	20	14	35.48	+ 0.58	1.62	− 0.02	.	110	16	45.3	− 4.8	21.6	− 0.7
18	N.	.	20	12	55.31	+ 0.60	1.69	+ 0.03	.	110	22	59.0	− 5.7	22.3	− 0.2
19	R.	.	20	12	33.25	+ 0.49	1.76	+ 0.09	.	110	24	19.0	− 5.9	23.2	+ 0.6
20	T.	.	20	12	10.80	+ 0.58	1.72	+ 0.05	.	110	25	41.3	− 5.4	23.1	+ 0.5
21	N.	.	20	11	47.66	+ 0.57	1.66	− 0.01	.	110	27.2	....	....	....	....
22	R.	.	20	11	24.00	+ 0.61	1.71	+ 0.03	.	110	28	30.1	− 5.1	22.9	+ 0.2
25	N.	.	20	10	9.63	+ 0.60	1.68	− 0.01	.	110	32	53.8	− 4.8	22.7	− 0.1
July 2	N.	.	20	6	58.90	+ 0.61	1.70	0.00	S.	110	43	49.4	− 4.9	....	....
5	N.	.	20	5	30.86	+ 0.61	1.74	+ 0.03	S.	110	48	44.2	− 4.4	....	....
11	T.	.	20	2	26.22	+ 0.62	1.82	+ 0.10	.	110	58	44.6	− 5.1	24.0	+ 0.7
13	H.	.	20	1	22.84	+ 0.68	1.66	− 0.06	.	111	2	7.6	− 4.0	23.4	+ 0.1
14	T.	.	20	0	50.73	+ 0.55	1.79	+ 0.07	.	111	3	49.0	− 3.5	23.1	− 0.2
16	N.	.	19	59	46.43	+ 0.58	1.78	+ 0.05	.	111	7	8.8	− 4.9	22.6	− 0.7
23	N.	.	19	55	59.74	+ 0.53	1.73	0.00	.	111	18	37.4	− 7.6	22.4	− 1.0
Aug. 3	T.	.	19	50	14.01	+ 0.71	1.68	− 0.05	.	111	35	24.0	− 6.8	23.4	+ 0.2
6	N.	.	19	48	45.08	+ 0.71	1.73	+ 0.01	.	111	39	35.3	− 4.5	22.6	− 0.5
9	R.	.	19	47	19.42	+ 0.56	1.76	+ 0.04	.	111	43	31.2	− 4.2	23.5	+ 0.4
10	H.	.	19	46	51.96	+ 0.73	1.68	− 0.04	.	111	44	45.7	− 5.1	23.3	+ 0.3
18	T.	.	19	43	29.24	+ 0.68	1.70	+ 0.01	.	111	53	48.5	− 4.5	23.4	+ 0.7
20	N.	.	19	42	44.28	+ 0.66	1.67	− 0.02	N.	111	55	46.6	− 4.2	....	...
24	H.	.	19	41	22.12	+ 0.70	1.62	− 0.06	.	111	59	21.1	− 2.8	22.0	− 0.4
30	H.	.	19	39	39.20	+ 0.51	1.68	+ 0.02	.	112	3	41.8	− 4.5	21.1	− 1.0
Sept. 5	T.	.	19	38	23.14	+ 0.57	1.64	+ 0.01	.	112	6	53.3	− 5.1	22.2	+ 0.4
8	T.	.	19	37	55.53	+ 0.46	1.62	0.00	.	112	8	3.6	− 4.0	19.9	− 1.7
12	T.	.	19	37	30.18	+ 0.42	1.64	+ 0.04	N.	112	9	8.1	− 3.7	....	....
13	R.	.	19	37	26.00	+ 0.52	1.65	+ 0.05	.	112	9	16.6	− 6.3	21.1	− 0.2
15	R.	.	19	37	19.90	+ 0.51	1.57	− 0.02	.	112	9	35.1	− 4.2	21.1	− 0.1
17	T.	.	19	37	17.06	+ 0.45	1.62	+ 0.05	N.	112	9	43.1	− 4.4	....	....
22	N.	.	19	37	24.56	+ 0.45	1.52	− 0.03	.	112	9	29.4	− 4.5	20.6	− 0.2
24	N.	.	19	37	33.27	+ 0.40	1.48	− 0.06	.	112	9.2	....	....	....	....
27	N.	I	19	37	52.60	....	....	....	.	112	8.5	....	....	....	....
Oct. 3	H.	.	19	38	52.84	+ 0.47	1.44	− 0.06	.	112	6	8.5	− 3.4	20.4	+ 0.3
5	H.	.	19	39	19.32	+ 0.49	1.46	− 0.03	.	112	5	6.3	− 3.4	20.2	+ 0.3
8	N.	.	19	40	4.87	+ 0.46	1.44	− 0.03	.	112	3	18.9	− 2.8	19.4	− 0.4
17	H.	.	19	43	2.46	+ 0.31	1.44	+ 0.01	.	111	56	10.8	− 1.8	19.7	+ 0.5
19	H.	.	19	43	50.02	+ 0.37	1.44	+ 0.02	.	111	54	12.9	− 2.8	19.2	+ 0.1
20	N.	.	19	44	14.78	+ 0.33	1.40	− 0.01	.	111	53	11.9	− 2.5	18.3	− 0.7
1867.															
July 18	N.	.	22	35	43.75	− 0.07	1.54	− 0.06	.	100	9	28.2	− 0.2	21.8	− 1.1
20	T.	.	22	35	11.78	− 0.09	1.58	− 0.03	.	100	13	9.9	− 0.8	24.4	+ 1.4
25	N.	.	22	33	41.00	− 0.05	1.62	− 0.01	.	100	23	25.3	− 1.6	22.8	− 0.4
27	T.	.	22	33	0.50	− 0.05	1.58	− 0.06	.	100	27	55.0	− 0.8	....	....
29	N.	.	22	32	17.90	+ 0.10	1.62	− 0.03	.	100	32	35.8	− 0.8	22.8	− 0.6
30	H.	.	22	31	55.74	+ 0.12	1.70	+ 0.05	.	100	35	0.6	− 0.6	23.4	− 0.1
31	T.	.	22	31	32.90	− 0.02	1.70	+ 0.05	.	100	37	27.4	− 1.0	25.3	+ 1.8
Aug. 3	T.	.	22	30	21.86	0.00	1.65	− 0.01	.	100	45	4.9	0.0	24.9	+ 1.3
6	H.	.	22	29	6.74	+ 0.03	1.64	− 0.03	.	100	53	0.8	− 0.8	23.3	− 0.4
17	T.	.	22	24	3.75	+ 0.01	1.69	− 0.01	.	101	24	8.3	− 1.6	23.5	− 0.5
23	H.	.	22	21	6.98	+ 0.16	1.74	+ 0.04	.	101	41	47.0	− 0.7	24.0	0.0
26	R.	.	22	19	37.22	+ 0.12	1.72	+ 0.02	.	101	50	34.8	− 0.8	24.0	0.0
27	H.	.	22	19	7.40	+ 0.24	1.74	+ 0.04	.	101	55	29.2	− 1.3	24.4	+ 0.4
Sept. 4	T.	.	22	15	10.41	+ 0.05	1.64	− 0.06	.	102	16	11.7	− 0.2	24.0	0.0
5	H.	.	22	14	41.54	+ 0.08	1.72	+ 0.02	.	102	18	53.7	− 1.8	23.8	− 0.1
6	N.	.	22	14	12.94	+ 0.16	1.68	− 0.02	.	102	21	35.5	− 1.7	23.6	− 0.3
11	T.	.	22	11	53.52	+ 0.02	1.70	+ 0.01	.	102	34	32.9	− 0.5	23.4	− 0.4
12	N.	.	22	11	26.84	+ 0.23	1.66	− 0.03	.	102	37	0.1	− 1.5	23.0	− 0.8

JUPITER—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1867.			h m s	s	s	s		° ′ ″	″	″	″
Sept. 13	H.	.	22 11 0.25	+ 0.16	1.68	− 0.01	.	102 39 26.2	− 1.0	23.4	− 0.4
16	N.	.	22 9 42.92	+ 0.03	1.64	− 0.04	.	102 46 26.5	− 1.1	23.1	− 0.6
17	H.	.	22 9 18.10	+ 0.09	1.67	− 0.01	.	102 48 41.2	− 0.8	23.3	− 0.3
18	T.	.	22 8 53.62	+ 0.03	1.63	− 0.05	.	102 50 52.9	− 0.5	23.8	+ 0.2
20	H.	.	22 8 6.20	+ 0.04	1.72	+ 0.05	.	102 55 6.1	− 0.8	23.8	+ 0.3
23	H.	.	22 6 59.02	+ 0.14	1.72	+ 0.05	.	103 1 0.1	− 2.3	23.3	− 0.1
24	T.	.	22 6 37.54	− 0.01	1.62	− 0.04	.	103 2 52.0	− 2.1	23.9	+ 0.6
27	H.	.	22 5 37.18	+ 0.15	1.66	+ 0.01	.	103 8 6.2	− 1.3	22.7	− 0.5
28	T.	.	22 5 18.10	+ 0.03	1.59	− 0.06	.	103 9 45.1	+ 0.5	23.6	+ 0.5
Oct. 1	H.	.	22 4 25.21	+ 0.16	1.65	+ 0.01	.	103 14 11.9	− 1.1	22.4	− 0.5
8	H.	.	22 2 45.26	+ 0.20	1.64	+ 0.03	.	103 22 18.4	− 1.0	22.6	0.0
11	H.	.	22 2 13.00	+ 0.06	1.64	+ 0.04	.	103 24 45.5	0.0	22.0	− 0.4
14	H.	.	22 1 47.55	+ 0.05	1.57	− 0.01	.	103 26 34.9	− 0.7	22.0	− 0.2
17	H.	.	22 1 28.96	+ 0.12	1.52	− 0.04	.	103 27 46.2	− 0.5	21.2	− 0.8
23	H.	.	22 1 12.23	− 0.01	1.61	+ 0.07	.	103 28 12.7	− 1.5	21.4	− 0.2
26	H.	.	22 1 14.50	+ 0.05	1.56	+ 0.04	.	103 27 29.3	− 0.8	21.4	0.0
1868.											
Aug. 12	T.	.	0 54 7.83	− 0.18	1.56	0.00	.	85 50 39.5	+ 5.9	23.2	+ 0.8
13	F.	.	0 54 0.52	− 0.19	1.60	+ 0.04	.	85 51 42.5	+ 5.7	24.3	+ 1.8
20	F.	.	0 52 49.40	− 0.23	1.49	− 0.10	.	86 1 3.8	+ 2.6	21.0	− 2.0
26	T.	.	0 51 21.52	− 0.38	1.54	− 0.07	.	86 11 52.3	+ 6.0	23.1	− 0.2
29	T.	.	0 50 29.06	− 0.32	1.58	− 0.04	.	86 18.0	....	....	....
31	F.	.	0 49 51.01	− 0.31	1.56	− 0.07	N.	86 22 32.6	+ 4.9	....	....
Sept. 4	Ha.	.	0 48 28.01	− 0.34	1.49	− 0.15	.	86 32.0	....	....	....
6	N.	.	0 47 43.42	− 0.21	1.65	0.00	.	86 37 15.1	+ 6.5	25.6	+ 1.8
7	F.	.	0 47.3	....	....	....	.	86 39 53.7	+ 7.7	24.2	+ 0.4
8	Ha.	.	0 46 56.42	− 0.48	1.58	− 0.07	.	86 42 33.9	+ 7.8	23.8	0.1
10	Ha.	.	0 46 7.92	− 0.32	1.52	− 0.14	.	86 47 59.1	+ 4.4	23.8	0.1
17	Ha.	.	0 43 4.81	− 0.16	1.60	− 0.07	.	87 8 20.3	+ 5.2	23.5	0.7
18	Ha.	.	0 42 37.18	− 0.21	1.64	− 0.04	.	87 11 24.1	+ 7.2	23.6	− 0.6
30	F.	.	0 36 50.22	− 0.22	1.69	+ 0.01	.	87 49 0.1	+10.3	25.8	+ 1.5
Oct. 1	T.	.	0 36 20.58	− 0.27	1.72	+ 0.04	.	87 52 8.4	+ 8.6	26.5	+ 2.2
5	N.	.	0 34 22.40	− 0.24	1.68	0.00	.	88 4 38.4	+ 6.5	22.8	− 1.5
6	F.	.	0 33 52.94	− 0.29	1.70	+ 0.02	.	88 7 48.8	+10.8	25.4	+ 1.1
7	T.	.	0 33 23.74	− 0.19	1.57	− 0.11	.	88 10 49.9	+ 7.0	23.6	− 0.7
12	N.	,	0 30 59.48	− 0.30	1.67	0.00	.	88 25 52.0	+ 6.1	23.8	− 0.4
13	F.	.	0 30 31.24	− 0.34	1.64	− 0.03	.	88 28 50.5	+ 9.3	24.8	+ 0.7
17	T.	.	0 28 41.40	− 0.17	1.70	+ 0.03	.	88 40 7.0	+ 6.7	26.2	+ 2.1
24	T.	.	0 25 42.94	− 0.31	1.52	− 0.13	.	88 58 8.4	+ 6.1	23.6	− 0.2
26	E.	.	0 24 56.03	− 0.30	1.67	+ 0.03	.	89 2 50.2	+ 8.1	23.8	+ 0.1
28	T.	.	0 24 11.12	− 0.32	1.54	− 0.10	.	89 7 15.0	+ 7.8	24.6	+ 0.9
29	E.	.	0 23 49.56	− 0.25	1.66	+ 0.02	.	89 9 20.6	+ 6.5	22.0	− 1.6
30	F.	.	0 23 28.52	− 0.21	1.66	+ 0.03	.	89 11 22.4	+ 5.2	24.6	+ 1.0
Nov. 3	E.	.	0 21 9.96	− 0.21	1.52	− 0.09	.	89 18 54.0	+ 5.3	22.8	− 0.6
5	N.	.	0 21 34.26	− 0.27	1.60	0.00	.	89 22 13.0	+ 4.0	23.0	− 0.3
6	E.	.	0 21 17.32	− 0.34	1.56	− 0.04	.	89 23 51.4	+ 8.8	23.4	+ 0.2
7	T.	.	0 21 1.28	− 0.15	1 54	− 0.06	.	89 25 17.9	+ 6.2	22.3	− 0.8
9	N.	.	0 20 30.73	− 0.26	1.51	− 0.08	.	89 28 2.2	+ 5.8	21.8	− 1.2
11	T.	.	0 20 3.10	− 0.15	1.53	− 0.05	.	89 30 28.3	+ 5.7	24.3	+ 1.4
12	N.	.	0 19 50.32	− 0.13	1.56	− 0.02	.	89 31 34.0	+ 5.5	21.8	− 1.0
13	E.	.	0 19 38.12	− 0.23	1.57	0.00	.	89 32 36.6	+ 6.8	22.1	− 0.7
14	T.	.	0 19 26.70	− 0.26	1.58	+ 0.01	.	89 33 32.0	+ 5.8	24.5	+ 1.8
18	T.	.	0 18 48.52	− 0.20	1.54	− 0.01	.	89 36 28.8	+ 6.2	23.0	+ 0.5
19	N.	.	0 18 40.78	− 0.22	1.49	− 0.06	.	89 37 0.0	+ 5.6	22.0	− 0.4
23	N.	.	0 18 17.46	− 0.21	1.58	+ 0.05	.	89 38 15.7	+ 4.4	21.2	− 0.9
30	F.	.	0 18 5.80	− 0.19	1.57	+ 0.07	.	89 37 22.3	+ 8.6	22.9	+ 1.3
Dec. 1	T.	.	0 18 7.19	− 0.16	1.59	+ 0.09	.	89 36 50.7	+ 5.2	21.7	+ 0.1
3	N.	.	0 18 12.25	− 0.09	1.42	− 0.07	.	89 35 40.8	+ 6.5	20.0	− 1.4
10	N.	.	0 18 53.38	− 0.12	1.46	+ 0.01	.	89 28 56.2	+ 4.7	19.6	− 1.3

JUPITER—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1868.			h	m	s	s	s	s		°	′	″	″	″	″
Dec. 21	N.	.	0	21	10.74	− 0.19	1.37	− 0.02	.	89	10	37.2	+ 5.4	19.1	− 1.1
1871.															
Aug. 8	E.	.	7	14	40.30	+ 0.67	1.08	− 0.12	.	67	36	9.4	+ 5.4	13.9	− 1.7
14	F.	.	7	20	1.22	+ 0.63	1.08	− 0.12	.	67	45	24.1	+ 4.9	13.9	− 1.8
1872.															
Jan. 17	F.	.	7	46	11.06	+ 0.97	1.72	+ 0.03	.	68	20	5.9	+ 6.6	21.2	− 0.9
24	E.	.	7	42	16.62	+ 0.95	1.71	+ 0.02	.	68	9	33.0	+ 6.1	23.6	+ 1.6
Feb. 21	E.	.	7	29	46.80	+ 0.94	1.60	− 0.02	.	67	38	41.7	+ 4.3	20.2	− 0.8
22	F.	.	7	29	29.00	+ 1.02	1.68	+ 0.07	.	67	38	1.8	+ 5.7	22.0	+ 1.0
23	S.	I	7	29	12.03	+ 1.17	....	....	.	67	37.3	....	....	....	....
26	F.	.	7	28	25.25	+ 1.20	1.72	+ 0.12	.	67	35	35.3	+ 6.1	21.3	+ 0.5
Mar. 5	F.	.	7	26	54.94	+ 1.02	1.54	− 0.02	.	67	32	8.4	+ 5.6	21.1	+ 0.9
6	S.	.	7	26	47.41	+ 0.90	1.59	+ 0.03	.	67	31	50.8	+ 5.1	21.3	+ 1.0
12	E.	.	7	26	19.04	+ 0.92	1.59	+ 0.05	.	67	30	41.8	+ 5.2	20.4	+ 0.5
16	E.	.	7	26	16.96	+ 0.92	1.54	+ 0.02	.	67	30	33.4	+ 6.6	19.0	− 0.7
19	Ha.	.	7	26	24.25	+ 1.07	1.46	− 0.04	.	67	30	44.3	+ 6.7	19.3	− 0.2
28	E.	.	7	27	29.15	+ 0.96	1.50	+ 0.05	.	67	32	49.1	+ 5.9	19.2	+ 0.3
29	F.	.	7	27	40.38	+ 1.03	1.51	+ 0.06	.	67	33	10.3	+ 4.7	20.0	+ 1.1
Apr. 2	E.	.	7	28	32.52	+ 0.85	1.44	+ 0.01	.	67	34.9	....	....	....	....
13	E.	.	7	31	57.16	+ 0.82	1.34	− 0.04	.	67	42	8.6	+ 4.5	17.6	− 0.4
Nov. 20	F.	.	10	11	19.90	+ 0.32	1.36	+ 0.07	.	77	52	0.2	+ 3.8	20.0	+ 2.2
1873.															
Mar. 10	S.	.	9	45	9.29	+ 0.68	1.55	0.00	.	75	11	37.4	+ 6.0	22.1	+ 1.0
31	E.	.	9	38	35.40	+ 0.65	1.46	+ 0.04	.	74	40	8.8	+ 5.8	20.2	+ 0.2
Apr. 4	E.	.	9	37	53.03	+ 0.67	1.44	+ 0.03	.	74	37	5.2	+ 5.9	20.9	+ 1.0
8	E.	.	9	37	22.05	+ 0.62	1.49	+ 0.04	.	74	35	3.6	+ 8.5	20.0	+ 0.3
May 5	E.	.	9	38	54.92	+ 0.71	1.32	+ 0.03	.	74	46	22.9	+ 6.9	17.5	− 0.6
Aug. 6	Hn.	.	10	32	14.53	+ 0.54	0.93	+ 0.14		79	44	25.8	+ 3.1	14.4	− 0.4
1874.															
Feb. 27	S.	.	11	58	57.20	+ 0.56	1.54	+ 0.06	.	88	12	19.8	+ 2.5	22.4	+ 1.5
Mar. 4	Sk.	.	11	56	47.28	+ 0.51	1.52	+ 0.03	.	87	57	32.0	+ 2.1	23.8	+ 2.8
10	F.	.	11	54	2.98	+ 0.49	1.52	+ 0.02	.	87	39	6.9	+ 2.8	22.0	+ 0.9
20	Sk.	.	11	49	19.72	+ 0.61	1.42	− 0.08	.	87	7	56.7	+ 1.8	22.1	+ 1.0
28	Sk.	.	11	45	36.30	+ 0.61	1.48	− 0.01	.	86	43	57.1	+ 3.0	21.8	+ 0.8
30	F.	.	11	44	42.26	+ 0.62	1.62	+ 0.13	.	86	38	14.2	+ 4.1	21.8	+ 0.8
Apr. 13	Sk.	.	11	38	59.35	+ 0.70	1.44	− 0.03	.	86	2	41.6	+ 2.4	21.2	+ 0.5
29	Sk.	.	11	34	20.74	+ 0.71	1.38	− 0.05	.	85	35	39.3	+ 1.7	21.0	+ 0.7
Aug. 15	Sk.	.	12	7	46.42	+ 0.54	1.02	− 0.06	.	89	35	14.5	+ 3.4	14.5	− 0.7
26	Sk.	.	12	15	35.14	+ 0.51	0.97	− 0.09	.	90	27	10.3	+ 3.7	13.2	− 1.8
1875.															
Feb. 22	S.	.	13	59	39.21	+ 0.68	1.45	+ 0.05	.	100	41	8.2	+ 2.2	21.4	+ 1.7
Apr. 21	E.	.	13	39	14.83	+ 0.79	1.55	+ 0.03	.	98	40	54.3	+ 0.7	22.6	+ 1.4
30	F.	.	13	35	2.26	+ 0.80	1.52	+ 0.01	.	98	17	26.7	− 0.5	21.1	0.0
May 7	E.	.	13	31	59.64	+ 0.75	1.51	+ 0.01	.	98	0	47.3	+ 2.1	22.0	+ 1.1
11	E.	.	13	30	23.51	+ 0.88	1.54	+ 0.05	.	97	52	4.9	+ 0.8	22.2	+ 1.4
12	F.	.	13	30	0.46	+ 0.82	1.54	+ 0.05	.	97	50	2.7	+ 2.1	21.5	+ 0.8
13	Sk.	.	13	29	37.92	+ 0.82	1.40	− 0.08	.	97	47	59.6	− 0.4	21.9	+ 1.2
17	F.	.	13	28.2	.....	....	....	....	.	97	40	28.4	+ 0.6	21.4	+ 0.8
19	E.	.	13	27	32.87	+ 0.74	1.57	+ 0.10	.	97	37	2.7	+ 2.2	20.9	+ 0.4
May 27	E.	.	13	25	16.50	+ 0.85	1.49	+ 0.05	.	97	25	28.0	− 0.4	21.3	+ 1.1
28	F.	.	13	25	2.02	+ 0.80	1.45	+ 0.01	.	97	24	18.2	− 0.1	21.0	+ 0.9
31	E.	.	13	24	22.30	+ 0.68	1.48	− 0.05	.	97	21	11.8	+ 1.7	22.0	+ 2.0
June 9	F.	.	13	22	58.00	+ 0.58	1.39	0.00	.	97	15.3	....	...	....	...
11	Sk.	.	13	22	46.68	+ 0.71	1.34	− 0.05	.	97	14	45.5	+ 1.8	20.2	+ 0.8
16	E.	.	13	22	29.74	+ 0.69	1.43	+ 0.06	.	97	14	30.5	+ 0.4	20.3	+ 1.1
23	F.	.	13	22	34.10	+ 0.73	1.31	− 0.04	.	97	16	59.8	+ 0.6	18.4	− 0.4
26	F.	.	13	22.8	.....	....	....	....	.	97	19	3.1	+ 0.7	17.8	− 0.8
July 8	E.	.	13	24	31.50	+ 0.60	1.30	0.00	.	97	33	2.3	+ 1.0	17.3	− 0.8

JUPITER—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1876.			h	m	s	s	s	s		°	′	″	″	″	″
Jan. 20	S.	.	15	41	34.31	+ 0.67	1.19	− 0.03	.	108	40	26.7	− 1.1	15.9	− 0.4
Feb. 18	P.	.	15	55	41.68	+ 0.81	1.34	+ 0.02	.	109	21	48.2	− 3.6	19.0	+ 1.4
Mar. 13	P.	.	16	0	24.93	+ 0.71	1.36	− 0.07	.	109	32	50.8	− 1.9	19.7	+ 0.7
21	P.	.	16	0	22.40	+ 0.75	1.44	− 0.02	.	109	31	49.5	− 3.8	19.8	+ 0.3
Apr. 4	F.	.	15	58	19.48	+ 0.94	1.53	− 0.01	.	109	24	38.9	− 1.9	21.8	+ 1.6
6	P.	.	15	57	50.14	+ 0.93	1.48	− 0.04	.	109	23	3.9	− 2.7	20.9	+ 0.6
10	P.	.	15	56	43.18	+ 0.84	1.54	0.00	.	109	19	31.1	− 3.7	22.0	+ 1.5
May 4	P.	.	15	46	51.82	+ 0.89	1.53	− 0.07	.	108	48	59.3	− 2.0	22.2	+ 0.8
23	S.	.	15	37	4.20	+ 0.89	1.68	+ 0.07	.	108	18	15.0	− 3.9	23.3	+ 1.8
27	S.	.	15	35	1.71	+ 0.82	1.63	+ 0.03	.	108	11	50.1	− 1.4	22.6	+ 1.1
29	E.	.	15	34	1.80	+ 0.84	1.64	+ 0.04	.	108	8	39.2	− 2.5	22.5	+ 1.0
31	S.	.	15	33	2.94	+ 0.87	1.57	− 0.03	.	108	5	32.5	− 2.7	21.8	+ 0.4
June 1	P.	.	15	32	33.93	+ 0.86	1.55	− 0.05	.	108	4	0.5	− 2.9	21.9	+ 0.5
5	P.	.	15	30	41.34	+ 0.86	1.58	− 0.01	.	107	58	5.7	− 1.7	21.4	+ 0.1
30	E.	.	15	21	55.14	+ 0.74	1.50	− 0.09	.	107	31	31.0	− 2.0	20.9	+ 0.5
July 2	S.	.	15	21	29.92	+ 0.90	1.52	+ 0.01	.	107	30	24.5	− 2.6	21.0	+ 0.7
22	S.	.	15	19	53.12	+ 0.80	1.41	− 0.02	.	107	29	22.9	− 2.1	19.6	+ 0.4
26	S.	.	15	20	8.90	+ 0.77	1.36	− 0.05	.	107	31	25.0	− 0.6	18.7	− 0.3
1877.															
May 15	P.	.	18	11	11.86	+ 0.99	1.60	− 0.04	.	113	4	27.4	− 6.1	21.3	+ 0.1
18	S.	.	18	10	8.25	+ 1.05	1.66	+ 0.01	.	113	4	58.6	− 6.5	22.1	+ 0.7
28	E.	.	18	5	57.35	+ 1.12	1.78	+ 0.10	.	113	6	45.6	− 3.9	23.2	+ 1.4
June 19	S.	.	17	54	26.56	+ 1.22	1.76	+ 0.05	.	113	9	23.7	− 6.4	23.4	+ 1.2
22	F.	.	17	52	46.72	+ 1.09	1.80	+ 0.09	.	113	9	33.6	− 5.9	23.2	+ 1.0
23	S.	.	17	52	13.69	+ 1.17	1.74	+ 0.03	.	113	9	36.2	− 5.6	23.2	+ 1.0
25	P.	.	17	51	7.75	+ 1.15	1.72	+ 0.01	.	113	9	39.9	− 5.7	22.4	+ 0.2
28	P.	.	17	49	29.81	+ 1.09	1.74	+ 0.04	.	113	9	43.2	− 5.6	22.5	+ 0.3
29	F.	.	17	48	57.62	+ 1.14	1.77	+ 0.07	.	113	9	43.4	− 5.9	23.4	+ 1.2
July 7	E.	.	17	44	49.28	+ 0.94	1.86	+ 0.17	.	113	9	38.2	− 4.9	22.6	+ 0.6
8	F.	I	17	44	20.03	+ 1.16	....	....	.	113	9	36.6	− 4.9	22.2	+ 0.2
16	F.	.	17	40	40.95	+ 1.21	1.72	+ 0.04	.	113	9	20.2	− 4.4	22.3	+ 0.6
26	P.	.	17	36	58.14	+ 1.21	1.64	− 0.01	.	113	9	1.9	− 4.6	21.3	0.0
Aug. 17	S.	.	17	33	0.14	+ 1.19	1.56	+ 0.01	.	113	10	4.5	− 4.9	20.9	+ 0.7
18	F.	.	17	33.0	.....	....	....	....	.	113	10	11.0	− 6.3	20.3	+ 0.2
1878.															
June 19	P.	.	20	34	41.00	+ 0.88	1.64	− 0.01	.	109	16	15.3	− 6.2	22.8	+ 2.6
July 15	F.	.	20	23	30.63	+ 1.04	1.73	0.00	.	110	0	25.6	− 5.6	24.1	+ 1.2
Aug. 2	F.	.	20	13	58.86	+ 1.06	1.81	+ 0.07	.	110	34	5.0	− 6.9	23.6	+ 0.7
8	F.	.	20	10	55.02	+ 1.10	1.78	+ 0.05	.	110	44	17.6	− 6.1	23.6	+ 1.0
Sept. 14	S.	.	19	58	38.49	+ 0.98	1.64	+ 0.02	.	111	22	1.8	− 6.4	21.8	+ 0.6
19	P.	.	19	58	13.66	+ 0.94	1.58	− 0.02	.	111	23	10.4	− 6.3	21.0	+ 0.1
20	E.	.	19	58	11.07	+ 0.87	1.61	+ 0.02	.	111	23	18.0	− 5.3	22.0	+ 1.2
Oct. 2	Pr.	.	19	58	45.08	+ 0.90	1.52	− 0.01	.	111	21	32.0	− 5.4	22.9	+ 2.8
14	Pr.	.	20	1	15.14	+ 0.86	1.46	+ 0.01	.	111	14	9.8	− 4.6	20.7	+ 1.3
26	Pr.	.	20	5	33.50	+ 0.85	1.43	+ 0.01	.	111	1	18.3	− 4.0	19.3	+ 0.7
Nov. 1	S.	.	20	8	20.07	+ 0.74	1.36	− 0.03	.	110	52	50.0	− 3.2	18.8	+ 0.5
1879.															
June 16	F.	.	22	56	39.46	+ 0.39	1.44	+ 0.01	.	97	56	49.9	− 3.2	19.0	− 1.0
Aug. 1	P.	.	22	52	42.09	+ 0.33	1.61	− 0.04	.	98	35	14.6	− 2.9	23.5	+ 0.6
19	P.	.	22	45	17.22	+ 0.37	1.68	− 0.01	.	99	24	3.7	− 3.5	24.2	+ 0.7
Sept. 5	S.	.	22	36	59.85	+ 0.35	1.74	+ 0.04	.	100	15	19.7	− 2.5	24.8	+ 1.2
6	P.	.	22	36	30.52	+ 0.38	1.66	− 0.04	.	100	18	17.0	− 1.3	24.6	+ 1.0
10	P.	.	22	34	34.67	+ 0.46	1.68	− 0.02	.	100	29	44.9	− 2.9	24.0	+ 0.5
11	Pr.	.	22	34	6.01	+ 0.31	1.72	+ 0.02	.	100	32	34.2	− 1.6	24.0	+ 0.5
15	Pr.	.	22	32	14.60	+ 0.35	1.74	+ 0.05	.	100	43	24.8	− 2.7	23.9	+ 0.5
16	F.	.	22	31	47.50	+ 0.37	1.72	+ 0.03	.	100	46	2.6	− 2.0	24.0	+ 0.6
17	S.	.	22	31	20.67	+ 0.31	1.74	+ 0.05	.	100	48	35.6	− 3.5	24.4	+ 1.0
26	P.	.	22	27	38.58	+ 0.43	1.64	− 0.03	.	101	9	33.4	− 2.6	23.9	+ 0.9
27	Pr.	.	22	27	16.25	+ 0.38	1.69	+ 0.03	.	101	11	36.0	− 3.2	24.4	+ 1.4

JUPITER—Continued.

Date.		Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1879.				h	m	s	s	s	s		°	′	″	″	″	″
Oct.	1	Pr.	.	22	25	52.58	+ 0.35	1.66	+ 0.01	.	101	19	12.9	− 3.4	23.8	+ 1.0
	7	S.	.	22	24	5.18	+ 0.46	1.62	− 0.01	N.	101	28	43.9	− 3.4	....	....
	10	F.	.	22	23.3	.....	....	....	....	.	101	32	35.1	− 2.9	23.0	+ 0.7
	14	F.	.	22	22	29.92	+ 0.37	1.56	− 0.05	.	101	36	43.2	− 2.7	22.5	+ 0.4
	15	S.	.	22	22	19.27	+ 0.46	1.61	+ 0.01	.	101	37	33.8	− 3.1	22.5	+ 0.5
	25	Pr.	.	22	21	12.98	+ 0.36	1.62	+ 0.06	.	101	42	0.3	− 1.4	22.4	+ 1.0
	29	Pr.	.	22	21	7.91	+ 0.33	1.55	+ 0.01	.	101	41	40.8	− 1.4	22.4	+ 1.3
Nov.	7	F.	.	22	21	41.56	+ 0.41	1.54	+ 0.04	.	101	36.6	....	....	....	....
	10	Pr.	.	22	22	6.36	+ 0.30	1.51	+ 0.03	.	101	33	37.7	− 1.2	21.0	+ 0.6
	11	F.	.	22	22	16.35	+ 0.49	1.54	+ 0.06	.	101	32	28.5	− 1.6	21.0	+ 0.7
	14	Pr.	.	22	22	50.20	+ 0.44	1.48	+ 0.02	.	101	28	36.9	− 1.1	21.2	+ 1.1
1880.																
Sept.	24	R.	I	1	1	54.87	+ 0.28	....	....	.	85	9	37.9	+ 1.8	24.2	+ 0.5
	25	W.	.	1	1	26.39	+ 0.08	1.62	− 0.07	N.	85	12	36.0	− 0.3	....	....
	28	R.	.	1	0	0.26	+ 0.25	1.66	− 0.03	.	85	21	45.5	+ 1.7	24.8	+ 1.0
	29	W.	.	0	59	31.04	+ 0.21	1.72	+ 0.03	.	85	24	51.7	+ 3.5	25.8	+ 2.0
Oct.	13	S.	.	0	52	35.31	+ 0.20	1.76	+ 0.07	.	86	7	57.4	+ 2.8	23.5	− 0.3
	15	W.	.	0	51	36.84	+ 0.08	1.68	− 0.01	.	86	13	54.7	+ 3.1	24.2	+ 0.5
	17	E.	.	0	50	39.30	+ 0.11	1.69	0.00	.	86	19	42.7	+ 0.5	24.6	+ 0.9
	20	E.	.	0	49	14.77	+ 0.11	1.70	+ 0.02	.	86	28	15.5	+ 2.0	25.0	+ 1.4
	23	W.	.	0	47	52.93	+ 0.06	1.67	− 0.01	.	86	36	26.3	+ 1.7	24.8	+ 1.3
	25	S.	.	0	47	0.33	+ 0.19	1.63	− 0.04	.	86	41	39.9	+ 0.8	24.2	+ 0.7
	31	W.	.	0	44	32.33	+ 0.33	1.63	− 0.03	.	86	56	11.4	+ 1.9	25.6	+ 2.4
Nov.	2	Hn.	.	0	43	46.82	+ 0.30	1.53	− 0.12	.	87	0	34.4	+ 2.2	23.6	+ 0.4
	9	Hn.	.	0	41	25.41	+ 0.23	1.53	− 0.10	.	87	13.8	....	....	....	....
	11	R.	.	0	40	50.52	+ 0.13	1.66	+ 0.04	.	87	17	2.4	+ 3.7	22.1	− 0.6
	12	W.	.	0	40	34.01	+ 0.04	1.58	− 0.04	.	87	18	29.2	+ 2.5	24.2	+ 1.6
	20	W.	.	0	38	47.42	+ 0.16	1.56	− 0.02	.	87	27	31.4	+ 2.9	23.8	+ 1.6
	23	E.	.	0	38	19.18	+ 0.15	1.64	+ 0.08	.	87	29	36.0	+ 2.4	23.8	+ 1.8
	27	R.	.	0	37	51.95	+ 0.16	1.46	− 0.09	.	87	31	13.4	+ 1.8	23.6	+ 1.9
Dec.	1	R.	II	0	37	36.93	+ 0.26	....	....	.	87	31	34.4	+ 3.9	22.2	+ 0.7
	2	W.	.	0	37	35.00	+ 0.19	1.42	− 0.10	.	87	31	26.6	+ 3.8	22.0	+ 0.6
	6	W.	.	0	37	35.24	+ 0.18	1.48	− 0.02	.	87	30	4.2	+ 2.4	22.2	+ 1.1
	8	S.	.	0	37	39.97	+ 0.18	1.49	0.00	.	87	28	52.6	+ 0.8	22.4	+ 1.4
	9	R.	.	0	37	43.47	+ 0.17	1.50	+ 0.02	.	87	28	12.0	+ 2.6	22.1	+ 1.2
	13	R.	.	0	38	5.16	+ 0.22	1.50	+ 0.04	.	87	24	33.4	+ 2.0	21.6	+ 1.0
	16	S.	.	0	38	29.22	+ 0.20	1.46	+ 0.01	.	87	20	58.6	+ 0.6	20.8	+ 0.4
1881.																
Jan.	28	W.	.	0	55	12.96	+ 0.16	1.22	− 0.05	.	85	22	23.4	+ 2.4	16.7	− 1.1
Feb.	4	R.	.	0	59	33.48	+ 0.22	1.14	− 0.11	.	84	53	38.1	+ 3.3	14.6	− 2.9
	5	W.	.	1	0	12.46	+ 0.23	1.16	− 0.09	.	84	49	21.7	+ 3.0	16.0	− 1.5
	12	R.	.	1	4	56.51	+ 0.17	1.02	− 0.21	.	84	18	31.0	+ 3.4	15.2	− 2.0
	16	R.	.	1	7	47.22	+ 0.22	1.14	− 0.08	.	84	0	11.1	+ 2.7	15.5	− 2.0
July	27	W.	.	3	22	4.52	+ 0.55	1.28	− 0.07	.	72	35	18.6	+ 2.4	17.8	− 0.3
Oct.	22	R.	.	3	27	15.77	+ 0.65	1.70	− 0.02	.	72	26	29.6	+ 2.6	22.9	− 0.2
	26	R.	.	3	25	20.79	+ 0.62	1.73	+ 0.01	.	72	33	30.0	+ 2.6	23.6	+ 0.4
	27	W.	.	3	24	51.01	+ 0.63	1.73	0.00	.	72	35	20.0	+ 3.6	22.8	− 0.5
Nov.	15	R.	.	3	14	39.68	+ 0.58	1.72	− 0.02	.	73	12	40.7	+ 1.1	23.6	+ 0.1
	24	W.	.	3	9	49.97	+ 0.60	1.66	− 0.07	.	73	30	28.3	+ 2.8	24.2	+ 0.9
	25	E.	.	3	9	19.00	+ 0.61	1.78	+ 0.05	.	73	32	22.0	+ 2.8	23.4	+ 0.1
	27	R.	.	3	8	18.07	+ 0.60	1.70	− 0.03	.	73	36	5.3	+ 2.7	23.4	+ 0.2
Dec.	1	R.	.	3	6	20.98	+ 0.63	1.67	− 0.04	.	73	43	13.8	+ 3.7	22.7	− 0.4
	2	W.	.	3	5	52.74	+ 0.54	1.64	− 0.07	.	73	44	57.5	+ 4.3	23.5	+ 0.5
	5	R.	.	3	4	31.27	+ 0.60	1.72	+ 0.02	.	73	49	50.5	+ 2.2	23.4	+ 0.5
	7	E.	.	3	3	39.49	+ 0.54	1.70	+ 0.01	.	73	52	56.5	+ 2.1	23.6	+ 0.7
	9	R.	.	3	2	50.19	+ 0.68	1.50	− 0.18	.	73	55	54.1	+ 3.2	21.1	− 1.7
	10	W.	.	3	2	26.25	+ 0.56	1.60	− 0.08	.	73	57	16.5	+ 1.1	23.4	+ 0.6
	15	E.	.	3	0	36.71	+ 0.63	1.68	+ 0.01	.	74	3	40.4	+ 2.8	22.8	+ 0.3
	20	S.	.	2	59	4.26	+ 0.60	1.62	− 0.03	.	74	8	48.9	+ 2.4	22.8	+ 0.5

JUPITER—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1881.			h	m	s	s	s	s		°	′	″	″	″	″
Dec. 31	E.	.	2	56	47.99	+ 0.59	1.64	+ 0.05	.	74	15	18.8	+ 1.7	22.0	+ 0.4
1882.															
Jan. 19	R.	.	2	56	43.58	+ 0.47	1.56	+ 0.07	.	74	9	54.5	+ 1.2	20.8	+ 0.5
23	E.	.	2	57	20.20	+ 0.51	1.54	+ 0.06	.	74	6	7.3	+ 1.6	20.2	+ 0.2
Feb. 1	S.	.	2	59	28.09	+ 0.59	1.42	− 0.01	.	73	54	29.0	+ 3.0	20.0	+ 0.6
6	R.	.	3	1	5.03	+ 0.59	1.40	− 0.01	.	73	46	16.7	+ 2.8	18.9	− 0.2
1883.															
Feb. 8	E.	.	5	22	42.06	+ 0.92	1.74	+ 0.14	.	67	2	31.1	+ 5.7	21.1	+ 0.4
19	W.	.	5	22	34.98	+ 1.07	1.50	− 0.04	.	67	0	46.7	+ 3.8	20.5	+ 0.5
23	W.	.	5	22	58.18	+ 0.98	1.50	− 0.02	.	66	59	49.1	+ 5.3	20.4	+ 0.6
27	W.	.	5	23	34.90	+ 1.04	1.42	− 0.08	.	66	58	38.2	+ 4.2	20.2	+ 0.7
Mar. 3	W.	.	5	24	24.72	+ 0.99	1.49	+ 0.01	.	66	57	18.5	+ 4.2	19.7	+ 0.5
1884.															
Jan. 25	W.	.	8	3	52.05	+ 1.75	1.66	− 0.01	.	69	0	49.8	+ 9.8	22.6	+0.6
29	W.	.	8	1	41.05	+ 1.78	1.69	+ 0.02	.	68	54	1.3	+ 8.1	22.5	+0.5
Feb. 20	S.	.	7	51	27.00	+ 1.91	1.60	− 0.02	.	68	24	8.9	+ 7.9	21.3	0.0
21	P.	.	7	51	5.33	+ 1.88	1.52	− 0.09	.	68	23	10.6	+ 9.3	20.0	− 1.2
Mar. 4	P.	.	7	47	41.75	+ 1.87	1.50	− 0.07	.	68	13	59.3	+ 7.7	19.8	− 0.8
6	E.	.	7	47	18.49	+ 1.82	1.60	+ 0.04	.	68	12	58.5	+ 8.2	19.8	− 0.6
10	E.	.	7	46	41.61	+ 1.77	1.61	+ 0.07	.	68	11	21.6	+ 8.1	21.4	+ 1.2
Apr. 4	S.	.	7	47	43.98	+ 1.73	1.38	− 0.05	.	68	14	1.8	+ 6.7	18.2	− 0.5
Nov. 10	S.	.	10	22	43.84	+ 1.56	1.24	+ 0.01	.	78	55	31.1	+12.8	16.5	− 0.5
11	P.	.	10	23	10.26	+ 1.64	1.13	− 0.11	C.	78	57	45.4	+10.9	....	....
1885.															
Feb. 28	W.	.	10	8	39.40	+ 1.95	1.52	− 0.03	.	77	11	44.1	+13.7	22.2	+ 0.9
Mar. 3	P.	.	10	7	13.10	+ 2.05	1.50	− 0.05	.	77	3	44.1	+11.0	21.3	0.0
9	E.	.	10	4	27.60	+ 2.04	1.56	+ 0.02	.	76	48	42.9	+12.2	21.6	+ 0.5
10	S.	.	10	4	1.34	+ 2.14	1.61	+ 0.07	.	76	46	19.4	+ 9.7	21.6	+ 0.5
17	E.	.	10	1	8.34	+ 2.08	1.56	+ 0.04	.	76	31	6.4	+12.3	21.2	+ 0.3
18	S.	.	10	0	45.38	+ 1.93	1.54	+ 0.02	.	76	29	5.4	+10.0	22.2	+ 0.4
20	W.	.	10	0	1.34	+ 1.91	1.46	− 0.06	.	76	25	18.8	+11.3	22.2	+ 0.4
25	E.	.	9	58	21.18	+ 2.02	1.58	+ 0.08	.	76	16	49.0	+12.1	21.2	+ 0.6
26	S.	.	9	58	2.93	+ 2.06	1.50	0.00	.	76	15	15.8	+10.6	21.2	+ 0.7
Apr. 4	P.	.	9	55	46.98	+ 2.06	1.42	− 0.05	.	76	4	14.6	+11.1	20.2	+ 0.1
6	E.	.	9	55	24.00	+ 1.98	1.48	+ 0.02	.	76	2	31.1	+12.4	20.8	+ 0.8
11	S.	.	9	54	38.98	+ 2.08	1.48	+ 0.04	.	75	59	12.6	+10.8	21.0	+ 1.3
13	W.	.	9	54	25.84	+ 2.01	1.40	− 0.04	.	75	58	21.8	+11.6	20.2	+ 0.6
14	E.	.	9	54	20.32	+ 1.97	1.44	+ 0.01	.	75	58	0.3	+10.1	20.0	+ 0.4
20	P.	.	9	54	2.74	+ 2.05	1.34	− 0.07	.	75	57	22.7	+11.4	19.2	0.0
22	E.	.	9	54	2.51	+ 1.94	1.42	+ 0.02	.	75	57	42.5	+13.4	19.1	0.0
23	S.	.	9	54	3.59	+ 2.00	1.40	+ 0.01	.	75	57	54.9	+11.0	19.6	+ 0.6
1886.															
Apr. 8	W.	.	11	58	7.99	+ 1.66	1.46	− 0.03	.	88	4	47.6	+ 7.9	21.6	+ 0.7
14	S.	.	11	55	42.70	+ 1.65	1.48	0.00	.	87	49	46.1	+ 7.1	20.7	0.0
15	P.	.	11	55	19.99	+ 1.73	1.43	− 0.04	.	87	47	27.6	+ 8.3	21.3	+ 0.6
17	E.	.	11	54	35.62	+ 1.61	1.42	− 0.05	.	87	42	56.6	+ 7.1	20.6	0.0
21	E.	.	11	53	12.73	+ 1.57	1.45	− 0.01	.	87	34	38.0	+ 6.9	20.4	− 0.1
22	S.	.	11	52	53.32	+ 1.62	1.40	− 0.06	.	87	32	43.2	+ 7.9	20.4	− 0.1
23	P.	.	11	52	34.58	+ 1.82	1.38	− 0.07	.	87	30	51.1	+ 7.8	21.0	+ 0.6
May 3	E.	.	11	49	55.76	+ 1.55	1.38	− 0.04	.	87	15	45.6	+ 7.6	20.4	+ 0.4
1887.															
April 26	P.	.	13	54	47.72	+ 1.15	1.48	− 0.05	.	100	10	46.9	− 0.6	21.2	0.0
May 2	E.	.	13	51	56.65	+ 0.92	1.56	+ 0.04	.	99	55	39.0	− 0.9	21.5	+ 0.4
11	S.	.	13	47	56.97	+ 0.96	1.54	+ 0.03	.	99	34	41.4	− 0.4	20.6	− 0.4
14	E.	.	13	46	43.17	+ 0.88	1.56	+ 0.06	.	99	28	19.8	− 0.2	20.7	− 0.2
16	P.	.	13	45	56.24	+ 1.02	1.40	− 0.10	.	99	24	17.1	− 0.8	20.4	− 0.4
17	W.	.	13	45	33.36	+ 1.00	1.46	− 0.03	.	99	22	20.7	− 0.2	20.6	− 0.2
18	E.	.	13	45	10.80	+ 0.84	1.58	+ 0.09	.	99	20	25.5	− 1.2	21.0	+ 0.3
19	S.	.	13	44	49.02	+ 0.98	1.50	+ 0.01	.	99	18	34.1	− 1.2	21.8	+ 1.1
20	P.	.	13	44	27.62	+ 1.00	1.44	− 0.05	.	99	16	46.5	− 0.4	20.7	0.0

JUPITER—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sid. Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1887.			h m s	s	s	s		° ′ ″	″	″	″
May 21	E.	.	13 44 6.65	+ 0.95	1.52	+ 0.04	.	99 15 0.4	− 1.1	21.6	+ 1.0
25	E.	.	13 42 48.28	+ 0.96	1.58	+ 0.11	.	99 8 30.2	− 1.1	21.1	+ 0.6
26	S.	.	13 42 30.09	+ 0.98	1.42	− 0.05	.	99 7 1.1	− 0.9	20.2	− 0.2
29	W.	.	13 41 38.83	+ 0.88	1.44	− 0.02	.	99 2 52.9	− 1.5	21.2	+ 0.9
1888.											
June 18	E.	.	15 44 49.10	+ 0.63	1.64	+ 0.05	.	108 52 59.9	− 4.2	21.2	0.0
1889.											
July 16	E.	.	18 2 59.27	+ 0.29	1.74	+ 0.04	.	113 20 12.1	− 7.6	22.9	+ 0.9
1890.											
Aug. 30	E.	.	20 24 28.14	+ 0.02	1.72	+ 0.03	.	110 8 36.3	− 4.3	23.2	+ 0.8
Sept. 3	H.	.	20 23 7.70	+ 0.13	1.66	− 0.02	.	110 13 11.5	− 5.8	22.8	+ 0.6
4	E.	.	20 22 49.18	+ 0.10	1.66	− 0.02	.	110 14 15.3	− 4.8	22.4	+ 0.3
9	S.	.	20 21 26.98	− 0.03	1.64	− 0.01	.	110 18 48.4	− 6.9	21.2	− 0.7
15	H.	.	20 20 13.02	+ 0.11	1.62	− 0.01	.	110 22 52.4	− 4.7	21.6	0.0

OBSERVATIONS OF SATURN.

1866–1891.

B 131

SATURN.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1866.			h m s	s	s	s	.	° ′ ″	″	″	″
Mar. 22	R.	.	14 39 37.30	— 0.86	0.63	+ 0.04	.	102 48 30.6	— 20.1	8.2	— 0.4
27	R.	.	14 38 36.79	— 0.73	0.62	+ 0.02	.	102 42 57.8	— 19.3	8.0	— 0.7
31	T.	.	14 37 43.16	— 0.86	0.60	0.00	.	102 38 11.5	— 19.7	6.8	— 1.9
Apr. 12	R.	.	14 34 40.96	— 0.75	0.68	+ 0.08	.	102 22 29.8	— 18.6	9.0	+ 0.2
19	N.	.	14 32 43.66	— 0.61	0.64	+ 0.03	.	102 12 43.4	— 18.1	8.2	— 0.6
24	R.	.	14 31 16.97	— 0.63	0.64	+ 0.03	.	102 5 36.3	— 19.6	8.2	— 0.6
25	T.	.	14 30 59.38	— 0.72	0.66	+ 0.05	.	102 4 12.6	— 18.1	7.6	— 1.2
26	R.	.	14 30.7	....	....	....	.	102 2 45.5	— 19.6	8.8	0.0
27	H.	.	14 30 24.44	— 0.56	0.66	+ 0.05	.	102 1 23.4	— 17.2	8.1	— 0.7
May 2	T.	.	14 29.0	....	....	....	.	101 54 20.7	— 18.3	8.4	— 0.4
3	R.	.	14 28 39.01	— 0.59	0.65	+ 0.04	.	101 52 58.6	— 17.1	9.0	+ 0.2
4	H.	.	14 28 21.60	— 0.50	0.76	+ 0.15	.	101 51 35.0	— 17.8	6.0	— 2.8
5	T.	.	14 28 4.00	— 0.65	0.66	+ 0.05	.	101 50 13.1	— 17.2	7.8	— 1.0
7	N.	R.	14 27 29.52	— 0.41	1.44	0.00	.	101 47 29.1	— 17.8	8.1	— 0.7
12	T.	.	14 26 3.87	— 0.64	0.62	+ 0.01	.	101 40 51.2	— 18.6	8.0	— 0.8
14	N.	.	14 25 30.69	— 0.41	0.68	+ 0.07	.	101 38 18.2	— 18.3	8.2	— 0.6
15	R.	.	14 25 14.13	— 0.46	0.64	+ 0.04	.	101 37 3.3	— 17.8	8.1	— 0.7
19	T.	.	14 24 9.56	— 0.49	0.66	+ 0.06	.	101 32 11.1	— 18.1	7.6	— 1.2
21	N.	R.	14 23 38.35	— 0.46	1.48	+ 0.04	.	101 29 52.2	— 17.7	7.4	— 1.4
22	H.	.	14 23 23.00	— 0.47	0.68	+ 0.08	.	101 28 43.5	— 18.4	7.4	— 1.4
24	N.	.	14 22 52.94	— 0.45	0.66	+ 0.06	.	101 26 31.5	— 18.0	8.0	— 0.7
25	H.	.	14 22 38.28	— 0.38	0.62	+ 0.02	.	101 25 29.1	— 16.1	7.9	— 0.8
28	N.	.	14 21 55.43	— 0.39	0.66	+ 0.06	.	101 22 23.1	— 17.4	8.4	— 0.3
29	H.	.	14 21 41.60	— 0.40	0.68	+ 0.08	.	101 21 24.3	— 17.3	8.8	+ 0.1
30	T.	.	14 21 27.96	— 0.45	0.62	+ 0.02	.	101 20 27.2	— 17.0	7.7	— 1.0
31	N.	.	14 21 14.75	— 0.32	0.64	+ 0.04	.	101 19 31.7	— 16.5	8.9	+ 0.2
June 4	N.	.	14 20 24.06	— 0.27	0.64	+ 0.04	.	101 16 2.0	— 17.5	8.4	— 0.3
7	N.	.	14 19 48.72	— 0.45	0.58	— 0.01	.	101 13 42.2	— 17.0	8.2	— 0.4
8	R.	.	14 19 37.62	— 0.40	0.73	+ 0.14	.	101 12 59.2	— 16.5	8.6	0.0
11	N.	.	14 19 6.10	— 0.29	0.58	— 0.01	.	101 10 58.0	— 17.8	8.1	— 0.5
12	R.	.	14 18 56.17	— 0.29	0.68	+ 0.09	.	101 10 21.5	— 17.8	8.4	— 0.2
13	H.	.	14 18 46.54	— 0.32	0.64	+ 0.05	.	101 9 47.4	— 17.1	8.6	0.0
16	T.	.	14 18 19.68	— 0.36	0.50	— 0.08	.	101 8 14.6	— 16.5	8.0	— 0.5
18	N.	.	14 18 3.46	— 0.35	0.60	+ 0.02	.	101 7 21.9	— 16.2	8.0	— 0.5
19	R.	.	14 17 55.89	— 0.31	0.71	+ 0.13	.	101 6 58.4	— 15.9	9.3	+ 0.8
20	T.	.	14 17 48.55	— 0.39	0.63	+ 0.05	.	101 6 35.7	— 16.7	8.0	— 0.5
21	N.	.	14 17 41.70	— 0.33	0.56	— 0.02	.	101 6 15.4	— 17.0	8.7	+ 0.2
23	H.	.	14 17 29.04	— 0.22	0.65	+ 0.07	.	101 5 42.4	— 15.9	8.6	+ 0.1
25	N.	.	14 17 17.68	— 0.21	0.66	+ 0.08	.	101 5 15.2	— 16.6	8.2	— 0.3
26	R.	.	14 17.2	....	....	....	.	101 5 5.6	— 15.9	8.4	0.0
30	H.	.	14 16 55.48	— 0.24	0.66	+ 0.09	.	101 4 42.6	— 16.9	8.4	0.0
1867.											
Mar. 29	H.	R.	15 27 3.81	— 0.75	1.52	+ 0.10	.	106 20 31.9	— 17.8	9.0	+ 0.5
30	T.	I	15 26 53.49	— 0.84	....	....	S.	106 19 45.3	— 18.0	....	....
Apr. 3	T.	.	15 26 9.32	— 0.77	0.62	+ 0.03	S.	106 16 29.8	— 17.2	....	....
6	T.	.	15 25 32.92	— 0.69	0.68	+ 0.09	.	106 13 50.4	— 18.8	8.0	— 0.6
13	T.	.	15 23 57.85	— 0.71	0.64	+ 0.04	S.	106 7 14.7	— 15.3	....	....
17	T.	.	15 22 57.96	— 0.82	0.66	+ 0.06	S.	106 3 8.7	— 16.7	....	....
18	H.	.	15 22 42.60	— 0.67	0.71	+ 0.11	.	106 2 5.1	— 17.5	10.2	+ 1.5
26	H.	.	15 20 32.00	— 0.55	0.72	+ 0.12	.	105 53 23.6	— 17.9	9.4	+ 0.7
May 1	T.	.	15 19 5.40	— 0.62	0.62	+ 0.02	S.	105 47 46.1	— 17.3	....	....
9	N.	.	15 16 42.76	— 0.44	0.62	+ 0.02	.	105 38 37.9	— 17.7	8.6	— 0.2
10	H.	.	15 16 24.74	— 0.43	0.74	+ 0.14	.	105 37 30.5	— 16.8	10.0	+ 1.2
14	T.	.	15 15 12.45	— 0.64	0.73	+ 0.13	S.	105 32 58.6	— 17.5	....	....
15	H.	.	15 14 54.73	— 0.39	0.69	+ 0.09	.	105 31 50.6	— 18.3	8.1	— 0.7
17	H.	.	15 14 18.86	— 0.45	0.70	+ 0.10	.	105 29 38.4	— 17.3	9.6	+ 0.8
18	T.	.	15 14 0.98	— 0.50	0.63	+ 0.03	.	105 28 31.9	— 17.8	9.1	+ 0.3
22	H.	.	15 12 50.36	— 0.48	0.74	+ 0.14	.	105 24 13.4	— 16.9	9.8	+ 1.0
June 1	N.	.	15 10 1.88	— 0.38	0.64	+ 0.04	.	105 14 7.4	— 18.8	8.0	— 0.7

SATURN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
			h	m	s	s	s	s		°	′	″	″	″	″
1867.															
June 3	N.	.	15	9	30.16	− 0.29	0.59	− 0.01	.	105	12.3	....	....	....	....
10	N.	.	15	7	45.51	− 0.28	0.63	+ 0.03	.	105	6	19.8	− 19.2	7.8	− 0.8
14	H.	.	15	6	51.08	− 0.19	0.70	+ 0.10	.	105	3	25.2	− 15.4	8.2	− 0.4
15	T.	.	15	6	37.91	− 0.39	0.61	+ 0.01	N.	105	2	43.1	− 16.0	....	....
19	H.	.	15	5	49.04	− 0.22	0.70	+ 0.10	.	105	0	10.4	− 16.0	8.8	+ 0.2
20	N.	.	15	5	37.54	− 0.18	0.60	0.00	.	104	59	36.0	− 15.6	7.6	− 1.0
21	H.	.	15	5	26.26	− 0.22	0.68	+ 0.08	.	104	59	2.0	− 16.1	8.8	+ 0.3
27	N.	.	15	4	25.42	− 0.26	0.62	+ 0.03	.	104	56	11.1	− 16.4	7.7	− 0.8
29	T.	I	15	4	7.84	− 0.19	....	....	N.	104	55	27.3	− 15.3	....	....
July 1	N.	.	15	3	51.57	− 0.20	0.65	+ 0.06	.	104	54	47.3	− 16.5	7.6	− 0.8
10	T.	.	15	2	56.12	− 0.17	0.60	+ 0.02	N.	104	53	13.2	− 14.7	....	....
11	N.	.	15	2	51.85	− 0.12	0.60	+ 0.02	.	104	53	10.9	− 14.5	7.6	− 0.7
1868.															
Feb. 11	A.	.	16	13	15.21	− 1.01	0.61	+ 0.07	C.	109	11	28.2	− 13.5	....	....
14	A.	.	16	13	52.38	− 0.83	0.58	+ 0.04	.	109	12	35.2	− 14.9	8.4	+ 0.6
Apr. 27	N.	.	16	10	25.30	− 0.74	0.66	+ 0.05	.	108	54	2.5	− 15.4	8.8	+ 0.2
30	A.	.	16	9	37.68	− 0.65	0.64	+ 0.03	.	108	51.8	....	....	....	....
May 11	N.	.	16	6	29.24	− 0.56	0.62	+ 0.01	.	108	43	7.5	− 15.3	9.4	+ 0.7
21	N.	.	16	3	26.64	− 0.42	0.62	+ 0.01	.	108	34	58.0	− 14.6	9.0	+ 0.3
26	A.	.	16	1	54.07	− 0.56	0.57	− 0.04	.	108	30.9	....	....	....	....
30	E.	.	16	0	40.92	− 0.39	0.66	+ 0.05	.	108	27.8	....	....	....	....
June 1	N.	.	16	0	4.60	− 0.47	0.62	+ 0.01	.	108	26	10.4	− 15.3	9.0	+ 0.3
4	N.	R.	15	59	11.12	− 0.29	1.36	....	S.	108	23	53.9	− 15.0	....	....
5	E.	.	15	58	53.34	− 0.41	0.70	+ 0.09	.	108	23.2	....	....	....	....
12	E.	.	15	56	53.63	− 0.40	0.68	+ 0.07	.	108	18.2	....	....	....	....
13	T.	.	15	56	37.24	− 0.35	0.58	− 0.03	S.	108	17	32.1	− 13.5	....	....
17	T.	.	15	55	33.45	− 0.39	0.58	− 0.03	.	108	14	57.7	− 14.4	7.7	− 0.9
18	N.	..	15	55	18.14	− 0.29	0.64	+ 0.03	.	108	14	22.1	− 13.5	9.1	+ 0.5
22	N.	.	15	54	18.96	− 0.23	0.63	+ 0.02	.	108	12	3.6	− 14.2	8.4	− 0.2
24	T.	.	15	53	50.83	− 0.25	0.67	+ 0.06	N.	108	11	2.7	− 11.5	....	....
25	N.	.	15	53	37.26	− 0.17	0.62	+ 0.02	.	108	10	30.0	− 13.8	8.0	− 0.6
26	E.	.	15	53	23.88	− 0.17	0.70	+ 0.10	.	108	10	2.9	− 11.5	10.5	+ 1.9
July 1	T.	.	15	52	21.36	− 0.24	0.62	+ 0.02	N.	108	7	49.0	− 13.1	....	....
2	N.	.	15	52	9.82	− 0.20	0.62	+ 0.02	.	108	7	25.0	− 13.7	8.2	− 0.3
3	E.	.	15	51	58.51	− 0.24	0.64	+ 0.04	.	108	7.1	....	....	....	....
13	N.	.	15	50	24.23	− 0.04	0.65	+ 0.06	.	108	4	22.0	− 13.0	8.6	+ 0.2
16	N.	.	15	50	2.68	− 0.12	0.60	+ 0.01	..	108	3	58.3	− 11.2	8.7	+ 0.3
17	E.	.	15	49	56.24	− 0.13	0.72	+ 0.12	.	108	3	51.6	− 11.8	10.3	+ 2.0
23	N.	.	15	49	25.63	− 0.15	0.58	− 0.01	.	108	3	40.3	− 12.0	8.6	+ 0.3
1869.															
Mar. 4	N.	.	17	3	18.85	− 0.70	0.50	− 0.09	.	111	9	11.1	− 16.8	8.8	− 0.8
30	F.	.	17	4	50.22	− 0.39	0.35	− 0.26	.	111	8	31.6	− 12.6	9.6	+ 1.5
Apr. 29	N.	R.	17	0	52.60	− 0.69	1.36	....	.	111	0	41.5	− 13.4	8.8	− 0.3
May 3	N.	.	16	59	57.56	− 0.53	0.62	− 0.03	.	110	59	11.2	− 14.0	9.2	− 0.6
4	F.	.	16	59	42.95	− 0.64	0.69	+ 0.04	R.	110	58	49.0	− 13.0	11.2	....
15	N.	R.	16	56	47.35	− 0.64	1.56	....	R.	110	54	15.4	− 13.4	10.4	....
17	N.	.	16	56	13.01	− 0.41	0.61	− 0.04	.	110	53	24.0	− 12.2	9.0	+ 0.4
20	N.	.	16	55	19.84	− 0.54	0.65	− 0.01	.	110	52	3.6	− 12.3	9.5	+ 0.9
23	F.	.	16	54	43.86	− 0.47	0.67	+ 0.01	.	110	51	7.3	− 14.5	10.7	+ 2.0
24	N.	.	16	54	7.41	− 0.42	0.58	− 0.08	.	110	50	14.7	− 12.6	9.1	+ 0.4
25	F.	.	16	53	48.90	− 0.54	0.65	− 0.01	.	110	49	47.5	− 12.4	10.4	+ 1.7
26	H.	R.	16	53	30.30	− 0.64	1.54	....	.	110	49	19.5	− 12.9	10.5	+ 1.8
June 5	F.	.	16	50	22.89	− 0.31	0.65	− 0.01	.	110	44.7	....	....	....	....
1870.															
May 16	E.	.	17	48	26.12	− 0.77	0.70	+ 0.04	.	112	8	7.2	− 11.2	9.8	+ 1.4
June 14	F.	.	17	39	57.34	− 0.57	0.54	− 0.13	.	112	5	59.0	− 9.3	10.1	+ 1.5
17	F.	.	17	39.0	.....	....	....	....	.	112	5	42.9	− 10.9	9.9	+ 1.3
18	S.	I	17	38	40.93	− 0.67	....	....	.	112	5.7	....	....	....	....
20	F.	R.	17	38	2.86	− 0.66	1.42	....	.	112	5	29.8	− 9.6	10.9	+ 2.3

SATURN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1870.			h m s	s	s	s		° ′ ″	″	″	″
June 21	S.	.	17 37 43.93	− 0.62	0.59	− 0.08	.	112 5 24.1	− 10.5	10.7	+ 2.1
23	F.	.	17 37 6.19	− 0.59	0.72	+ 0.05	.	112 5 16.0	− 9.2	....	....
24	S.	.	17 36 47.36	− 0.63	0.64	− 0.03	.	112 5 11.9	− 8.6	11.0	+ 2.4
25	E.	.	17 36 28.42	− 0.86	0.68	+ 0.02	.	112 5 8.2	− 7.6	9.7	+ 1.1
30	S.	.	17 34 56.54	− 0.72	0.62	− 0.04	.	112 4 45.3	− 8.4	10.9	+ 2.3
July 8	F.	.	17 32 37.20	− 0.43	0.52	− 0.14	.	112 4 14.6	− 8.7	11.2	+ 2.6
9	S.	.	17 32 20.18	− 0.83	0.59	− 0.07	.	112 4.2	....	....	....
11	F.	.	17 31 47.73	− 0.69	0.63	− 0.03	.	112 4 6.2	− 8.1	9.7	+ 1.1
14	E.	.	17 31 0.48	− 0.78	0.62	− 0.04	.	112 4.0	....	....	....
18	S.	.	17 30 1.24	− 0.67	0.65	0.00	S.	112 3 52.9	− 6.1	10.1	+ 1.6
19	E.	.	17 29 46.95	− 0.78	0.68	+ 0.03	.	112 3 50.0	− 7.7	10.1	+ 1.6
21	S.	.	17 29 19.72	− 0.51	0.62	− 0.03	.	112 3 47.5	− 8.4	10.6	+ 2.1
23	F.	.	17 28 53.30	− 0.64	0.66	+ 0.01	.	112 3 46.2	− 8.7	10.5	+ 2.0
30	F.	.	17 27 31.36	− 0.61	0.67	+ 0.02	.	112 3 50.8	− 8.7	9.7	+ 1.3
Aug. 6	E.	.	17 26 26.32	− 0.78	0.70	+ 0.06	.	112 4 10.2	− 8.7	10.7	+ 2.4
15	Ha.	.	17 25 30.32	− 0.60	0.66	+ 0.03	N.	112 4 59.4	− 8.0	....	....
1871.											
Aug. 12	S.	I	18 16 26.00	− 1.00	0.60	− 0.05	.	112 43 23.2	− 6.4	10.3	+ 1.9
15	F.	.	18 15 57.17	− 0.85	0.71	+ 0.07	.	112 43 57.6	− 7.4	10.0	+ 1.6
25	F.	.	18 14 44.92	− 1.12	0.66	+ 0.03	.	112 45 49.7	− 4.4	8.2	0.0
1872.											
May 26	S.	.	19 29 20.02	− 1.08	0.62	− 0.03	.	111 35 11.9	− 1.1	10.2	+ 1.8
July 19	F.	.	19 14 30.26	− 1.48	0.68	+ 0.01	.	112 8 27.6	− 3.2	11.2	+ 2.5
30	E.	.	19 11 15.49	− 1.44	0.65	− 0.01	.	112 15 10.1	− 1.9	10.2	+ 1.6
31	F.	.	19 10 58.85	− 1.44	0.71	+ 0.05	.	112 15 43.1	− 3.0	10.9	+ 2.3
Aug. 3	E.	.	19 10 9.65	− 1.64	0.67	+ 0.01	.	112 17 24.5	− 1.5	11.0	+ 2.4
26	S.	.	19 5 15.90	− 1.43	0.66	+ 0.02	.	112 27 36.3	0.0	9.9	+ 1.5
30	S.	.	19 4 42.74	− 1.41	0.66	+ 0.02	.	112 28 50.6	− 0.5	9.6	+ 1.3
Sept. 3	S.	.	19 4 15.73	− 1.43	0.62	− 0.02	.	112 29 53.1	− 2.6	9.8	+ 1.5
18	F.	.	19 3 32.39	− 1.48	0.67	+ 0.04	.	112 32 28.4	+ 1.3	9.6	+ 1.5
21	S.	.	19 3 35.05	− 1.43	0.63	0.00	.	112 32 39.5	− 0.4	9.4	+ 1.4
1873.											
July 11	F.	.	20 9 34.50	− 1.58	0.68	+ 0.02	.	110 26 38.5	+ 3.3	9.9	+ 1.2
22	F.	.	20 6 13.22	− 1.45	0.70	+ 0.04	.	110 37 50.8	+ 4.6	10.9	+ 2.2
23	F.	.	20 5 54.68	− 1.51	0.66	0.00	.	110 38 52.3	+ 5.6	9.8	+ 1.1
24	E.	.	20 5 36.06	− 1.67	0.74	+ 0.08	.	110 39 51.3	+ 4.3	10.4	+ 2.7
30	F.	.	20 3 46.19	− 1.58	0.67	+ 0.01	.	110 45 48.4	+ 5.6	9.3	+ 0.6
Aug. 5	E.	.	20 1 59.02	− 1.74	0.67	+ 0.01	.	110 51 28.4	+ 4.7	9.8	+ 1.1
6	Hn.	.	20 1 41.61	− 1.73	0.85	+ 0.19	.	110 52 23.6	+ 4.9	10.5	+ 1.8
7	F.	.	20 1 24.42	− 1.63	0.68	+ 0.02	.	110 53 19.3	+ 6.2	9.4	+ 1.7
9	E.	.	20 0 50.19	− 1.75	0.72	+ 0.06	.	110 55 5.3	+ 5.1	9.8	+ 1.1
10	Hn.	R.	20 0 33.36	− 1.78	1.42	....	.	110 55 56.7	+ 3.8	10.0	+ 1.3
30	Hn.	R.	19 55 45.76	− 0.94	1.90	....	.	111 10 45.6	+ 3.9	9.2	+ 0.7
Sept. 4	F.	.	19 54 51.02	− 1.69	0.68	+ 0.04	.	111 13 32.3	+ 5.8	9.7	+ 1.3
12	F.	.	19 53 43.01	− 1.66	0.66	+ 0.02	.	111 17 4.4	+ 7.8	9.6	+ 1.2
16	F.	.	19 53 17.85	− 1.83	0.60	+ 0.07	.	111 18 21.6	+ 5.8	8.6	+ 0.3
20	F.	.	19 52 59.24	− 1.77	0.70	+ 0.07	.	111 19 22.6	+ 5.1	9.4	+ 1.2
24	F.	.	19 52 46.99	− 1.84	0.66	+ 0.04	.	111 20 8.5	+ 7.6	9.1	+ 0.9
25	E.	.	19 52 45.10	− 1.72	0.66	+ 0.04	.	111 20 14.8	+ 5.9	9.1	+ 0.9
26	S.	.	19 52.8	....	....	....	.	111 20 20.9	+ 5.1	10.0	+ 1.8
30	E.	.	19 52 41.04	− 2.07	0.62	+ 0.03	.	111 20 37.8	+ 5.7	10.2	+ 2.1
Oct. 1	Hn.	R.	19 52 41.94	− 1.67	1.32	....	.	111 20 37.6	+ 4.3	8.9	+ 0.8
7	S.	R.	19 52 53.80	− 1.60	1.40	....	.	111 20 23.8	+ 7.6	9.8	+ 1.8
8	E.	.	19 52 57.05	− 1.79	0.69	+ 0.08	.	111 20 15.3	+ 5.9	7.7	− 0.3
16	E.	.	19 53 39.51	− 1.76	0.56	+ 0.04	.	111 18 41.1	+ 7.1	8.1	+ 0.2
Nov. 1	E.	.	19 56 22.31	− 1.73	0.67	+ 0.08	.	111 11 50.7	+ 5.4	7.6	− 0.1
1874.											
Aug. 27	Sk.	R.	20 47 40.91	1.67	1.50	....	.	108 49 46.2	+ 11.9	10.6	+ 1.9
Sept. 18	F.	.	20 43 5.66	1.76	0.68	+ 0.04	.	109 7 59.7	+ 9.7	8.8	+ 0.3

SATURN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1874.			h	m	s	s	s	s		°	′	″	″	″	″
Sept. 22	F.	.	20	42	32.22	1.76	0.68	+ 0.04		109	10	10.3	+ 11.4	8.6	+ 0.2
24	Sk.	R.	20	42	17.66	1.79	1.46	....		109	11	3.3	+ 8.9	9.8	+ 1.4
25	E.	.	20	42	10.88	1.86	0.68	+ 0.05		109	11	30.1	+ 10.2	8.4	0.0
26	F.	.	20	42	4.60	1.81	0.68	+ 0.05		109	11	54.3	+ 10.4	8.2	— 0.2
Oct. 2	Sk.	R.	20	41	34.65	1.87	1.41	....		109	13	45.6	+ 10.0	9.2	+ 0.9
3	E.	.	20	41	30.95	1.96	0.64	+ 0.02		109	13	59.1	+ 10.2	8.9	+ 0.6
15	E.	.	20	41	19.53	1.84	0.68	+ 0.07		109	14	34.5	+ 10.1	7.4	— 0.7
16	F.	.	20	41.4	.....	....	....	....		109	14	26.3	+ 9.2	8.2	+ 0.1
18	Sk.	R.	20	41	25.90	1.87	1.42	....		109	14	7.9	+ 10.3	8.6	+ 0.5
19	E.	.	20	41	28.85	1.88	0.73	+ 0.12		109	13	54.3	+ 8.9	8.6	+ 0.5
20	F.	.	20	41	32.32	1.78	0.64	+ 0.03		109	13	43.1	+ 11.5	8.4	+ 0.3
28	F.	.	20	42.3	.....	....	....	....		109	10	56.1	+ 10.7	7.8	— 0.2
Nov. 4	E.	.	20	43	11.64	1.76	0.68	+ 0.09		109	7	10.4	+ 11.3	9.0	+ 1.1
12	E.	.	20	44	40.77	1.82	0.62	+ 0.04		109	1	21.3	+ 12.0	7.8	0.0
1875.															
Aug. 9	P.	.	21	43	53.22	— 1.38	0.62	— 0.03		105	7	2.9	+ 14.9	8.5	— 0.3
20	P.	.	21	40	41.02	— 1.59	0.62	— 0.03		105	24	3.7	+ 15.0	8.3	0.5
21	P.	.	21	40	23.72	— 1.48	0.64	— 0.01		105	25	35.0	+ 15.4	8.8	0.0
25	P.	.	21	39	14.61	— 1.51	0.56	— 0.09		105	31	32.4	+ 14.6	8.6	— 0.2
26	Sk.	R.	21	38	57.42	— 1.62	1.54	....		105	33	0.7	+ 15.0	8.3	— 0.5
30	P.	.	21	37	50.14	— 1.51	0.67	+ 0.02		105	38	43.8	+ 13.9	9.0	+ 0.2
31	F.	.	21	37.6	.....	....	....	....		105	40	9.4	+ 15.6	9.0	+ 0.2
Sept. 1	P.	.	21	37	17.04	— 1.65	0.66	+ 0.01		105	41	30.3	+ 13.6	8.5	— 0.3
3	F.	.	21	36	44.69	— 1.65	0.66	+ 0.01		105	44	14.6	+ 15.2	9.0	+ 0.2
4	P.	.	21	36	28.84	— 1.56	0.66	+ 0.01		105	45	34.3	+ 15.1	8.5	0.3
7	F.	.	21	35	41.96	— 1.68	0.76	+ 0.11		105	49	26.6	+ 14.6	9.0	+ 0.2
8	P.	.	21	35	26.82	— 1.62	0.54	— 0.11		105	50	42.3	+ 15.0	9.1	+ 0.3
14	P.	.	21	34	0.14	— 1.68	0.57	— 0.08		105	57	45.6	+ 14.3	8.6	— 0.1
20	P.	.	21	32	42.32	— 1.70	0.60	— 0.04		106	3	59.3	+ 15.2	8.8	+ 0.1
24	P.	.	21	31	56.02	— 1.82	0.60	— 0.04		106	7	36.1	+ 14.2	8.8	+ 0.2
27	F.	.	21	31	24.60	— 1.81	0.64	0.00		106	10	3.9	+ 16.2	9.0	+ 0.4
Oct. 2	E.	.	21	30	38.83	— 1.85	0.61	— 0.03		106	13	31.5	+ 15.9	9.4	+ 0.9
8	Sk.	R.	21	29	55.74	— 1.79	1.49	....		106	16.7	....	....	....	....
12	F.	.	21	29	34.34	— 1.85	0.66	+ 0.03		106	18	7.0	+ 14.0	8.9	+ 0.5
13	Sk.	.	21	29	30.02	— 1.80	0.66	+ 0.04		106	18	25.0	+ 14.8	9.5	+ 1.1
20	P.	.	21	29	10.34	— 1.74	0.58	— 0.04		106	19	32.7	+ 15.8	8.4	+ 0.1
27	F.	.	21	29	10.14	— 1.77	0.63	+ 0.02		106	19	2.5	+ 14.6	8.4	+ 0.2
Nov. 2	P.	.	21	29	25.78	— 1.79	0.57	— 0.03		106	17	20.9	+ 14.6	8.3	+ 0.2
6	Sk.	.	21	29	44.35	— 1.77	0.60	0.00		106	15	35.1	+ 15.8	9.1	+ 1.0
12	P.	.	21	30	24.09	— 1.79	0.48	— 0.12		106	11	58.4	+ 17.0	8.1	+ 0.1
1876.															
Aug. 6	F.	.	22	34	37.94	— 1.33	0.64	+ 0.01		100	56	29.4	+ 16.7	9.4	+ 0.5
26	F.	.	22	29	9.50	— 1.48	0.68	+ 0.03		101	30	46.3	+ 18.2	9.4	+ 0.5
28	E.	.	22	28.6	.....	....	....	....		101	34	14.1	+ 18.7	9.9	+ 1.0
Sept. [illegible]	F.	.	22	27	9.74	— 1.52	0.64	— 0.01		101	42	45.6	+ 19.4	10.4	+ 1.5
4	S.	.	22	26	35.78	— 1.57	0.64	— 0.01		101	46	6.4	+ 19.8	10.1	+ 1.2
20	S.	.	22	22	19.80	— 1.72	0.73	+ 0.08		102	10	37.3	+ 19.0	10.0	+ 1.2
27	F.	.	22	20	42.16	— 1.76	0.70	+ 0.06		102	19	36.4	+ 19.4	10.8	+ 2.0
Oct. 2	S.	.	22	19	39.84	— 1.87	0.70	+ 0.06		102	25	12.4	+ 20.6	9.4	+ 0.6
13	F.	.	22	17	48.96	— 1.93	0.62	— 0.01		102	34	43.4	+ 20.6	8.8	+ 0.2
17	F.	.	22	17	18.68	— 1.85	0.68	+ 0.05		102	37	8.5	+ 19.2	10.7	+ 2.1
18	S.	.	22	17	11.93	— 1.90	0.68	+ 0.05		102	37	41.1	+ 20.6	8.9	+ 0.3
24	E.	.	22	16	39.46	— 1.99	0.58	— 0.04		102	40	0.5	+ 19.0	9.1	+ 0.6
27	P.	.	22	16	28.56	— 1.82	0.62	0.00		102	40	41.1	+ 19.2	9.1	+ 0.7
31	S.	.	22	16	19.09	— 1.97	0.60	— 0.02		102	41	6.0	+ 21.8	8.6	+ 0.2
Nov. 1	E.	.	22	16	17.77	— 1.93	0.59	— 0.02		102	41	2.2	+ 18.1	9.6	+ 1.2
7	S.	.	22	16	17.91	— 1.91	0.63	+ 0.02		102	40	16.4	+ 20.1	8.4	+ 0.1
22	F.	.	22	17	20.76	— 1.84	0.64	+ 0.05		102	32	22.3	+ 20.2	10.2	+ 2.1
24	S.	.	22	17	35.70	— 1.94	0.65	+ 0.06		102	30	40.9	+ 19.6	8.5	+ 0.4

SATURN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1877.			h m s	s	s	s		° ′ ″	″	″	″
Aug. 18	F.	.	23 21 16.82	− 1.36	0.70	+ 0.06	.	96 35 23.2	+ 20.6	8.9	0.0
Sept. 3	F.	.	23 17 1.75	− 1.36	0.65	0.00	.	97 4 22.6	+ 22.6	9.0	0.0
15	F.	.	23 13.7	....	....	....	.	97 26 24.8	+ 24.5	7.9	− 1.1
Oct. 23	E.	.	23 4 52.44	− 1.63	0.70	+ 0.07	.	98 18 47.6	+ 24.6	9.8	+ 1.1
24	P.	.	23 4 43.51	− 1.65	0.62	− 0.01	.	98 19 35.2	+ 25.4	8.3	− 0.4
31	E.	.	23 3 50.59	− 1.72	0.70	+ 0.07	.	98 23 58.3	+ 24.9	9.5	+ 0.8
Nov. 3	F.	.	23 3 33.18	− 1.82	0.65	+ 0.03	.	98 25 14.1	+ 23.1	8.9	+ 0.3
12	E.	.	23 3 1.72	− 1.72	0.78	+ 0.16	.	98 26 55.2	+ 24.3	10.0	+ 1.5
13	F.	.	23 3 0.10	− 1.76	0.68	+ 0.07	.	98 26 53.5	+ 23.9	8.8	+ 0.3
16	E.	.	23 2 57.67	− 1.80	0.63	+ 0.02	.	98 26 32.4	+ 21.9	8.6	+ 0.2
19	P.	.	23 2 58.92	− 1.69	0.62	+ 0.01	.	98 25 52.1	+ 22.9	8.2	− 0.2
20	E.	.	23 3 0.06	− 1.72	0.69	+ 0.08	.	98 25 34.2	+ 23.7	9.4	+ 1.0
1878.											
Sept. 14	S.	.	0 4 16.87	− 1.26	0.65	0.00	.	92 19 5.6	+ 25.7	9.8	+ 0.7
19	P.	.	0 2 52.75	− 1.20	0.65	+ 0.05	.	92 28 32.9	+ 25.4	9.0	− 0.2
Oct. 1	P.	.	23 59 29.48	− 1.31	0.65	− 0.01	.	92 50 47.0	+ 25.4	9.1	0.0
8	S.	.	23 57 35.06	− 1,43	0.65	+ 0.01	.	93 2 52.9	+ 24.9	8.7	− 0.4
14	Pr.	.	23 56.1	....	....	....	.	93 12 28.4	+ 25.8	9.5	+ 0.4
25	E.	.	23 53 31.34	− 1.49	0.64	0.00	.	93 27 30.6	+ 25.9	8.5	− 0.5
26	Pr.	.	23 53 19.10	− 1.48	0.64	+ 0.01	.	93 28 42.7	+ 27.4	9.4	+ 0.4
Nov. 8	S.	.	23 51 7.37	− 1.42	0.63	− 0.01	.	93 40 40.6	+ 27.7	9.4	+ 0.6
14	Pr.	.	23 50 25.50	− 1.47	0.62	− 0.02	.	93 43 54.0	+ 24.5	9.0	+ 0.2
29	S.	.	23 49 39.77	− 1.43	0.61	+ 0.01	.	93 45 23.8	+ 24.7	9.2	+ 0.7
1879.											
Aug. 1	P.	.	1 1 59.75	− 0.68	0.55	− 0.07	.	86 9 8.8	+ 22.3	8.2	− 0.5
Sept. 10	P.	.	0 56 22.23	− 0.75	0.59	− 0.06	.	86 54 8.2	+ 24.8	9.4	+ 0.2
16	F.	.	0 54 52.17	− 0.89	0.63	− 0.03	.	87 4 28.7	+ 26.8	10.0	+ 0.8
17	S.	.	0 54 36.43	− 0.99	0.66	0.00	.	87 6 12.7	+ 24.6	10.0	+ 0.8
24	F.	.	0 52 42.74	− 0.92	0.70	+ 0.04	.	87 18 52.5	+ 23.7	9.1	− 0.2
25	S.	.	0 52 26.08	− 0.84	0.74	+ 0.08	.	87 20 44.1	+ 24.9	9.7	+ 0.4
26	P.	.	0 52 9.18	− 0.90	0.63	− 0.03	.	87 22 34.9	+ 25.1	9.6	+ 0.3
27	Pr.	.	0 51 52.15	− 1.00	0.70	+ 0.04	.	87 24 25.3	+ 24.6	9.6	+ 0.3
30	P.	.	0 51 1.10	− 0.83	0.61	− 0.05	.	87 29 54.5	+ 20.3	9.4	+ 0.1
Oct. 1	Pr.	.	0 50 43.90	− 0.84	0.72	+ 0.06	.	87 31 50.4	+ 25.0	10.3	+ 1.0
2	F.	.	0 50 26.62	− 0.88	0.68	+ 0.02	.	87 33 42.3	+ 25.7	9.4	+ 0.1
10	F.	.	0 48 8.38	− 0.73	0.70	+ 0.04	.	87 48 21.0	+ 24.7	8.5	− 0.8
13	Pr.	.	0 47 16.60	− 0.99	0.74	+ 0.08		87 53 45.3	+ 27.4	9.6	+ 0.3
15	S.	.	0 46 42.66	− 0.92	0.72	+ 0.06	.	87 57 13.8	+ 25.3	9.4	+ 0.1
25	Pr.	.	0 43 59.32	− 0.99	0.70	+ 0.04	.	88 13 41.9	+ 25.0	10.2	+ 1.0
26	F.	.	0 43 43.82	− 1.00	0.60	− 0.06	.	88 15 16.3	+ 27.8	9.8	+ 0.6
29	Pr.	.	0 42 58.48	− 1.04	0.72	+ 0.06	.	88 19 40.6	+ 26.4	10.1	+ 0.9
30	F.	.	0 42 43.78	− 1.04	0.70	+ 0.04	.	88 21 4.9	+ 25.3	9.2	0.0
Nov. 3	F.	.	0 41 47.35	− 0.93	0.67	+ 0.02	.	88 26 29.7	+ 26.1	10.4	+ 1.3
4	S.	.	0 41 33.75	− 1.00	0.70	+ 0.05	.	88 27 44.7	+ 24.6	10.0	+ 0.9
10	Pr.	.	0 40 18.15	− 0.96	0.77	+ 0.12	.	88 34 44.1	+ 26.5	9.4	+ 0.3
11	F.	.	0 40 6.45	− 1.04	0.65	0.00	.	88 35 45.5	+ 25.7	9.4	+ 0.3
13	P.	.	0 39 44.26	− 0.92	0.60	+ 0.04	.	88 37 43.6	+ 25.7	8.7	− 0.3
14	Pr.	.	0 39 33.48	− 1.01	0.68	+ 0.04	.	88 38 41.0	+ 27.4	9.1	+ 0.1
22	Pr.	.	0 38 19.98	− 0.98	0.70	+ 0.06	.	88 44 40.1	+ 25.8	9.2	+ 0.3
23	F.	.	0 38.2	....	....	....	.	88 45 13.7	+ 25.2	9.9	+ 1.0
Dec. 12	Pr.	.	0 36 58.98	− 1.01	0.64	+ 0.02	.	88 48 0.3	+ 25.7	8.9	+ 0.3
18	S.	.	0 37 5.49	− 0.93	0.64	+ 0.03	.	88 45 34.3	+ 23.0	8.7	+ 0.2
1880.											
Sept. 24	R.	.	1 45 11.44	− 0.54	0.66	− 0.01	.	82 4 28.3	+ 23.4	9.6	+ 0.3
25	W.	.	1 44 56.02	− 0.68	0.64	− 0.03	.	82 6 3.9	+ 24.1	10.3	+ 1.0
28	R.	.	1 44 8.93	− 0.66	0.60	− 0.07	.	82 10 53.7	+ 23.7	10.6	+ 1.3
29	W.	.	1 43 52.80	− 0.69	0.64	− 0.03	.	82 12 31.9	+ 23.4	10.1	+ 0.8
Oct. 15	W.	.	1 39 17.15	− 0.62	0.64	− 0.03	.	82 39 49.8	+ 24.9	10.2	+ 0.8
17	E.	.	1 38 41.25	− 0.76	0.66	− 0.01	.	82 43 15.0	+ 23.5	10.4	+ 1.0

SATURN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1880.			h m s	s	s	s		° ′ ″	″	″	″
Oct. 20	E.	.	1 37 47.57	− 0.73	0.66	− 0.01	.	82 48 23.4	+ 24.4	10.0	+ 0.6
23	W.	.	1 36 54.08	− 0.69	0.68	+ 0.01	.	82 53 24.8	+ 22.4	10.2	+ 0.8
25	S.	.	1 36 18.66	− 0.64	0.68	+ 0.01	.	82 56 44.0	+ 22.1	10.0	+ 0.6
Nov. 2	Hn.	R.	1 34 0.46	− 0.45	1.46	....	.	83 9 30.6	+ 23.9	9.8	+ 0.4
9	Hn.	R.	1 32 6.86	− 0.48	1.53	....	.	83 19.6	....	....	....
12	W.	.	1 31 20.91	− 0.74	0.63	− 0.03	.	83 23 38.0	+ 23.6	10.4	+ 1.1
23	E.	.	1 28 52.90	− 0.67	0.62	− 0.04	.	83 35 58.2	+ 23.0	10.6	+ 1.4
27	R.	.	1 28 7.76	− 0.77	0.58	− 0.08	.	83 39 27.0	+ 21.8	8.2	− 0.9
Dec. 1	R.	.	1 27 28.30	− 0.56	0.64	− 0.01	.	83 42 23.0	+ 23.1	10.0	+ 0.9
2	W.	I	1 27 19.24	− 0.58	....	....	N.	83 43 3.6	+ 25.7	....	....
6	W.	.	1 26 46.70	− 0.61	0.62	− 0.03	.	83 45 9.8	+ 23.3	9.7	+ 0.7
8	S.	.	1 26 32.70	− 0.60	0.72	+ 0.07	.	83 45 58.3	+ 21.9	10.5	+ 1.5
9	R.	.	1 26 26.28	− 0.59	0.60	− 0.05	.	83 46 21.2	+ 23.5	9.4	+ 0.4
16	S.	.	1 25 52.29	− 0.57	0.64	0.00	.	83 47 40.6	+ 22.3	9.2	+ 0.3
22	W.	.	1 25 38.71	− 0.60	0.54	− 0.09	.	83 47 14.0	+ 23.2	9.4	+ 0.6
1881.											
Feb. 4	R.	.	1 31 20.97	− 0.43	0.55	− 0.04	.	83 0 30.6	+ 21.8	8.6	+ 0.5
5	W.	.	1 31 37.04	− 0.47	0.50	− 0.08	.	82 58 40.0	+ 21.4	6.7	− 1.3
July 27	W.	.	2 40 27.85	− 0.39	0.58	− 0.04	.	76 54 53.6	+ 21.5	7.4	− 1.0
Oct. 22	R.	.	2 32 33.02	− 0.30	0.72	+ 0.03	.	77 49 19.2	+ 21.7	9.1	− 0.4
26	W.	.	2 31 19.19	− 0.32	0.75	+ 0.06	.	77 55 19.3	+ 21.5	10.0	+ 0.5
27	W.	.	2 31 0.56	− 0.34	0.68	− 0.01	.	77 56 51.5	+ 23.5	9.4	− 0.1
Nov. 5	E.	.	2 28 12.32	− 0.34	0.72	+ 0.03	.	78 10 13.0	+ 21.8	9.6	+ 0.1
15	R.	.	2 25 10.24	− 0.33	0.70	+ 0.01	.	78 24 15.5	+ 21.3	9.8	+ 0.3
16	W.	.	2 24 52.72	− 0.28	0.64	− 0.05	.	78 25 35.0	+ 21.2	9.4	− 0.1
24	W.	.	2 22 38.67	− 0.34	0.62	− 0.06	.	78 35 29.1	+ 20.7	10.2	+ 0.8
25	E.	.	2 22 22.99	− 0.24	0.73	+ 0.05	.	78 36 39.0	+ 22.2	9.2	− 0.2
27	R.	.	2 21 52.25	− 0.15	0.68	0.00	.	78 38 52.2	+ 23.0	9.4	0.0
Dec. 1	R.	.	2 20 53.74	− 0.20	0.68	0.00	.	78 42 56.9	+ 21.9	9.4	+ 0.1
2	W.	.	2 20 39.74	− 0.30	0.64	− 0.04	.	78 43.9	....	....	....
5	R.	.	2 19 59.96	− 0.16	0.68	+ 0.01	.	78 46 34.9	+ 21.0	9.3	0.0
7	E.	.	2 19 34.83	− 0.24	0.70	+ 0.03	.	78 48 12.8	+ 20.3	9.3	0.0
10	W.	.	2 18 59.81	− 0.18	0.64	− 0.03	.	78 50 25.3	+ 18.9	9.4	+ 0.2
15	E.	.	2 18 8.41	− 0.11	0.68	+ 0.02	.	78 53 30.7	+ 20.7	9.8	− 0.4
17	R.	.	2 17 50.32	− 0.20	0.64	− 0.02	.	78 54 29.6	+ 20.5	9.3	+ 0.1
20	S.	.	2 17 26.39	− 0.02	0.70	+ 0.04	.	78 55 40.5	+ 18.7	8.6	− 0.5
28	S.	.	2 16 39.74	− 0.05	0.66	+ 0.01	.	78 57 19.6	+ 20.2	8.2	− 0.6
31	E.	.	2 16 28.97	− 0.19	0.78	+ 0.13	.	78 57 18.6	+ 19.7	8.4	− 0.5
1882.											
Nov. 15	W.	.	3 23 20.37	− 0.04	0.68	− 0.03	.	73 54 20.4	+ 17.8	10.0	+ 0.4
1883.*											
Sept. 28	S.	.	4 35 3.40	+ 0.66	0.70	+ 0.01	.	69 57 58.7	− 1.0	....	....
Nov. 5	P.	.	4 28 6.90	− 0.58	0.68	− 0.04	.	70 16 20.2	+ 0.9	....	....
13	P.	.	4 25 39.08	− 0.67	0.72	− 0.01	.	70 21 58.7	+ 1.4	....	....
14	W.	.	4 25 19.68	− 0.73	0.70	− 0.03	.	70 22.7	....	....	....
17	P.	.	4 24 20.84	− 0.62	0.72	− 0.01	.	70 24 53.9	+ 0.5	....	....
30	W.	.	4 19 55.76	− 0.78	0.71	− 0.02	.	70 34 37.6	+ 1.7	....	....
Dec. 3	P.	.	4 18 54.41	− 0.60	0.71	− 0.02	.	70 36 48.6	+ 0.3	....	....
6	S.	.	4 17 53.55	− 0.49	0.79	+ 0.06	.	70 39.0	....	....	....
12	W.	.	4 15 54.26	− 0.75	0.72	− 0.01	.	70 43 9.2	+ 1.5	....	....
17	E.	.	4 14 19.37	− 0.77	0.80	+ 0.08	C.	70 46 21.8	+ 0.3	....	....
21	E.	.	4 13 7.26	− 0.78	0.82	+ 0.10	C.	70 48 44.9	+ 0.1	....	....
28	W.	.	4 11 11.06	− 0.82	0.66	− 0.06	C.	70 52 25.7	+ 0.7	....	....
1884.											
Jan. 22	E.	.	4 6 39.88	− 0.71	0.72	+ 0.03	C.	70 58 31.8	+ 1.2	....	....
Dec. 9	P.	.	5 20 55.24	− 0.68	0.76	+ 0.02	C.	68 20 15.8	− 0.3	....	....
1885.											
Jan. 8	E.	.	5 11 2.08	− 0.74	0.75	+ 0.02	.	68 26 41.0	− 0.4	12.0	....
10	P.	.	5 10 29.44	− 0.68	0.66	− 0.07	.	68 27 59.3	+ 1.1	....	....
19	W.	.	5 8 19.32	− 0.89	0.73	+ 0.01	.	68 27 50.6	− 0.8	10.9	....

*From 1883 to 1887, inclusive, the Ring was observed in N. P. D., on each date.

SATURN—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1885.			h	m	s	s	s	s		°	′	″	″	″	″
Jan. 27	W.	.	5	6	50.68	− 0.87	0.72	0.00	.	68	28	2.6	+ 0.2	11.8	....
28	E.	.	5	6	41.65	− 0.75	0.75	+ 0.04	.	68	28	0.7	− 0.5	10.2	....
Feb. 12	E.	.	5	5	19.20	− 0.77	0.74	+ 0.04	.	68	26	28.1	+ 1.3	10.0	....
22	S.	.	5	5	24.01	− 0.70	0.71	+ 0.03	.	68	24	2.9	− 0.7	9.9	....
Mar. 2	S.	.	5	6	2.38	− 0.71	0.72	+ 0.05	.	68	21	24.3	− 0.5	10.3	....
Dec. 22	E.	.	6	22	26.92	− 0.91	0.77	+ 0.02	.	67	30	30.8	− 1.2	11.0	....
1886.															
Jan. 19	E.	.	6	12	58.68	− 0.96	0.76	+ 0.02	.	67	22	59.7	− 1.4	11.2	....
20	S.	.	6	12	41.20	− 0.86	0.78	+ 0.04	.	67	22	45.1	− 1.6	11.0	....
Feb. 8	E.	.	6	8	12.21	− 0.85	0.73	+ 0.01	.	67	18	34.8	− 2.0	10.8	....
9	S.	.	6	8	2.06	− 0.82	0.74	+ 0.02	.	67	18	23.7	− 1.0	10.9	....
14	E.	.	6	7	17.75	− 0.88	0.75	+ 0.03	.	67	17	25.8	+ 0.1	10.7	....
15	W.	R.	6	7	10.38	− 0.76	....	....	.	67	17	12.7	− 1.4	11.9	....
16	E.	.	6	7	3.23	− 0.88	0.73	+ 0.01	.	67	17	1.8	− 0.8	10.6	....
18	W.	.	6	6	50.59	− 0.85	0.68	− 0.03	.	67	16	38.9	− 0.9	11.0	....
24	E.	.	6	6	23.96	− 0.82	0.71	0.00	.	67	15	31.4	− 1.9	10.4	....
Mar. 4	E.	.	6	6	15.30	− 0.87	0.70	0.00	.	67	14	8.4	− 0.8	10.5	....
5	S.	.	6	6	16.49	− 0.80	0.73	+ 0.03	.	67	13	57.9	− 1.2	10.3	....
13	S.	.	6	6	42.91	− 0.86	0.74	+ 0.06	.	67	12	40.4	− 1.1	10.4	....
16	E.	.	6	7	0.90	− 0.73	0.70	+ 0.02	.	67	12	13.6	− 0.6	10.7	....
17	S.	.	6	7	7.60	− 0.92	0.72	+ 0.04	.	67	12	5.7	+ 0.4	10.0	....
Oct. 20	P.	.	7	36	23.62	− 0.64	0.60	− 0.07	C.	68	41	34.2	− 0.6	....	....
1887.															
Feb. 22	W.	.	7	9	32.19	− 0.92	0.71	− 0.01	.	67	36	17.3	− 1.9	10.0	....
28	S.	.	7	8.6	.....	....	....	....	.	67	34	7.7	− 0.9	9.6	....
Mar. 10	W.	.	7	7	43.34	− 0.86	0.67	− 0.03	.	67	31	31.7	− 1.5	10.2	....
11	E.	.	7	7	40.50	− 0.82	0.76	+ 0.06	.	67	31	20.1	− 1.9	10.0	....
12	S.	.	7	7	38.06	− 0.86	0.74	+ 0.04	.	67	31	9.9	− 1.7	10.0	....
14	W.	.	7	7	34.56	− 0.96	0.65	− 0.05	.	67	30	51.2	− 1.8	10.1	....
15	E.	.	7	7	33.60	− 0.93	0.72	+ 0.02	.	67	30	43.2	− 1.8	10.8	....
16	S.	.	7	7	33.16	− 0.86	0.70	0.00	.	67	30	37.0	− 0.7	9.8	....
24	S.	.	7	7	46.30	− 0.82	0.74	+ 0.05	.	67	30	6.4	− 1.8	10.2	....
25	E.	.	7	7	50.03	− 0.87	0.68	0.00	.	67	30	5.6	− 2.5	10.0	....
1888.															
Jan. 28	W.	.	8	20	6.55	− 0.90	0.71	− 0.02	.	69	54	56.4	− 3.4	9.4	− 0.2
Feb. 13	W.	.	8	15	0.05	− 0.90	0.73	0.00	.	69	36	54.0	− 2.7	9.4	− 0.2
Mar. 9	P.	. .	8	9	12.38	− 0.78	0.64	− 0.07	C.	69	17	11.3	− 1.2	...	...
14	W.	.	8	8	30.75	− 0.93	0.68	− 0.02	.	69	14	49.2	− 2.2	9.6	+ 0.4
15	E.	.	8	8	23.76	− 0.92	0.70	0.00	.	69	14	25.2	− 2.1	9.1	− 0.1
18	E.	.	8	8	5.34	− 0.99	0.74	+ 0.04	.	69	13	21.3	− 2.2	8.8	− 0.3
1889.															
Mar. 13	E.	.	9	8	27.17	− 0.75	0.70	0.00	.	72	19	20.2	− 2.5	9.0	− 0.3
26	W.	.	9	6	12.33	− 0.85	0.68	− 0.01	.	72	9	41.9	− 1.9	9.3	+ 0.1
Apr. 8	E.	.	9	5	5.24	− 0.69	0.68	+ 0.01	.	72	5	12.7	− 2.1	9.0	0.0
1890.															
Mar. 23	E.	.	10	3	30.97	− 0.09	0.70	+ 0.02	.	76	14	30.6	− 1.3	8.7	− 0.6
Apr. 1	E.	.	10	1	43.12	+ 0.02	0.70	+ 0.03	.	76	5	18.5	+ 0.6	9.0	− 0.2
2	S.	.	10	1	32.78	+ 0.02	0.66	− 0.01	.	76	4	25.3	− 0.9	8.6	− 0.6
4	E.	.	10	1	13.10	− 0.04	0.69	+ 0.02	.	76	2	47.9	− 1.3	9.0	− 0.2
5	S.	.	10	1	3.83	− 0.04	0.68	+ 0.01	.	76	2	3.5	− 0.3	9.0	− 0.1
7	S.	.	10	0	46.29	− 0.13	0.66	− 0.01	.	76	0	39.9	+ 0.4	8.4	− 0.7
28	S.	.	9	59	16.88	− 0.04	0.68	+ 0.04	.	75	54	41.9	− 0.2	8.0	− 0.8
29	E.	.	9	59	17.12	+ 0.01	0.66	+ 0.02	.	75	54	49.7	+ 0.1	8.8	0.0
May 2	S.	.	9	59	20.10	− 0.03	0.66	+ 0.02	.	75	55	24.9	− 0.6	8.6	− 0.1
1891.															
Apr. 19	E.	.	10	52	16.54	− 0.12	0.61	− 0.04	.	80	29	7.6	+ 1.5	9.0	0.0
20	S.	.	10	52	7.99	− 0.09	0.64	− 0.01	.	80	28	21.6	− 0.3	8.6	− 0.4
21	H.	.	10	51	59.74	− 0.11	0.65	0.00	.	80	27	40.6	+ 0.6	9.0	0.0
27	E.	.	10	51	17.90	− 0.07	0.64	0.00	.	80	24.3	....	...	...	...
29	H.	.	10	51	6.86	− 0.07	0.70	+ 0.06	.	80	23	27.2	− 1.0	8.9	+ 0.3

OBSERVATIONS OF URANUS.

1866–1891.

URANUS.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1866.			h m s	s	s	s		° ′ ″	″	″	″
Jan. 4	R.	C.	6 5 52.76	+ 2.24	....	....	C.	66 17 31.6	+ 10.5	....	....
6	T.	C.	6 5 31.14	+ 2.20	....	....	C.	66 17 29.2	+ 11.7	....	....
8	H.	C.	6 5 9.77	+ 2.12	....	....	C.	66 17 22.6	+ 8.6	....	....
13	T.	C.	6 4 17.79	+ 1.91	....	....	C.	66 17 14.8	+ 7.8	....	....
16	R.	C.	6 3 47.91	+ 1.88	....	....	C.	66 17 12.6	+ 9.1	....	....
20	T.	C.	6 3 9.91	+ 2.00	....	....	C.	66 17 8.7	+ 8.9	....	....
22	H.	C.	6 2 51.61	+ 1.97	....	....	C.	66 17 7.2	+ 8.0	....	....
30	R.	C.	6 1 44.58	+ 1.98	....	....	C.	66 17 1.4	+ 7.2	....	....
31	N.	C.	6 1 36.93	+ 1.97	....	....	C.	66 17 2.2	+ 8.3	....	....
Feb. 1	R.	C.	6 1 29.47	+ 1.98	....	....	C.	66 17 2.5	+ 8.7	....	....
3	T.	C.	6 1.2.....	....	....	....	C.	66 17 0.6	+ 7.4	....	....
5	R.	C.	6 1.0.....	....	....	....	C.	66 17 2.1	+ 9.1	....	....
6	H.	C.	6 0 54.74	+ 1.86	....	....	C.	66 17 1.2	+ 8.3	....	....
13	R.	C.	6 0 14.49	+ 1.93	....	....	C.	66 16 59.9	+ 6.6	....	....
20	R.	C.	5 59 44.35	+ 1.82	....	....	C.	66 17 3.3	+ 8.3	....	....
22	R.	C.	5 59 37.78	+ 1.84	....	....	C.	66 17 2.9	+ 7.4	....	....
26	H.	C.	5 59 27.31	+ 1.86	....	....	C.	66 17 3.3	+ 6.5	....	....
Mar. 2	H.	C.	5 59 20.54	+ 1.91	....	....	C.	66 17 5.8	+ 7.8	....	....
5	H.	C.	5 59 17.63	+ 1.71	....	....	C.	66 17 7.2	+ 8.3	....	....
8	N.	C.	5 59 17.19	+ 1.87	....	....	C.	66 17 6.9	+ 7.1	....	....
10	R.	C.	5 59 17.85	+ 1.76	....	....	C.	66 17 6.8	+ 6.5	....	....
13	R.	C.	5 59 20.77	+ 1.77	....	....	C.	66 17 9.4	+ 8.2	....	....
16	H.	C.	5 59 25.97	+ 1.93	....	....	C.	66 17 10.4	+ 8.5	....	....
Oct. 7	N.	.	6 36 32.60	+ 2.14	0.12	0.00	.	66 31 9.4	+ 11.6	2.1	+ 0.3
15	N.	.	6 36 36.41	+ 2.06	0.17	+ 0.05	.	66 30 58.3	+ 9.1	2.1	+ 0.3
17	H.	.	6 36 35.14	+ 2.13	0.22	+ 0.10	.	66 30 56.3	+ 11.1	2.6	+ 0.8
18	R.	C.	6 36 34.14	+ 2.15	....	....	C.	66 30 54.4	+ 11.6	....	....
19	H.	C.	6 36 32.80	+ 2.06	....	....	C.	66 30 51.7	+ 11.4	....	....
31	H.	C.	6 36 0.15	+ 2.03	....	....	C.	66 30 6.9	+ 12.2	....	....
Nov. 2	H.	C.	6 35 51.58	+ 1.99	....	....	C.	66 29 55.4	+ 10.9	....	....
5	N.	C.	6 35 37.17	+ 1.98	....	....	C.	66 29 39.2	+ 11.1	....	...
6	R.	.	6 35 32.14	+ 2.15	0.24	+ 0.12	C.	66 29 33.1	+ 10.8	....	...
7	T.	C.	6 35 26.63	+ 2.10	....	....	C.	66 29 27.4	+ 11.1	....	....
9	H.	C.	6 35 15.17	+ 2.11	....	....	C.	66 29 14.8	+ 10.7	....	....
12	N.	.	6 34 56.42	+ 2.06	0.16	+ 0.04	.	66 28 55.2	+ 10.6	2.0	+ 0.2
20	R.	.	6 33 58.44	+ 2.06	0.20	+ 0.08	.	66 27 58.3	+ 11.2	1.6	− 0.2
26	T.	.	6 33 7.92	+ 2.10	0.16	+ 0.04	.	66 27 9.9	+ 10.2	1.4	− 0.4
30	H.	C.	6 32 31.21	+ 2.06	....	....	C.	66 26 38.1	+ 11.4	....	....
Dec. 4	R.	C.	6 31 52.46	+ 2.07	....	....	C.	66 26 4.2	+ 11.4	....	....
5	N.	C.	6 31 42.40	+ 2.00	....	....	C.	66 25 54.3	+ 10.1	....	....
8	T.	C.	6 31 11.77	+ 1.96	....	....	C.	66 25 28.5	+ 10.0	....	....
12	R.	C.	6 30 29.54	+ 1.84	....	....	C.	66 24 55.6	+ 11.6	....	....
14	R.	C.	6 30 8.26	+ 2.09	....	....	C.	66 24 38.3	+ 11.6	....	....
17	R.	C.	6 29 35.52	+ 2.11	....	....	C.	66 24 13.0	+ 12.0	....	....
20	T.	C.	6 29 2.09	+ 1.91	....	....	C.	66 23 45.8	+ 10.2	....	....
1867.											
Jan. 8	T.	.	6 25 29.62	+ 1.89	0.18	+ 0.06	.	66 21 17.8	+ 10.3	3.0	+ 1.1
11	H.	C.	6 24 57.23	+ 1.97	....	....	C.	66 20 57.3	+ 10.3	....	....
15	H.	C.	6 24 14.86	+ 1.83	....	....	C.	66 20 30.3	+ 9.0	....	....
17	N.	C.	6 23 54.32	+ 1.85	....	....	C.	66 20 20.6	+ 11.6	....	....
18	H.	C.	6 23 44.25	+ 1.91	....	....	C.	66 20 13.5	+ 10.3	....	....
19	T.	C.	6 23.5.....	....	....	....	C.	66 20 8.7	+ 11.2	....	....
21	N.	C.	6 23 14.46	+ 1.88	....	....	C.	66 19 56.5	+ 10.2	....	....
24	N.	.	6 22 45.78	+ 1.88	0.18	+ 0.06	.	66 19 41.1	+ 10.6	1.8	− 0.1
26	T.	C.	6 22 27.31	+ 1.88	....	....	C.	66 19 30.7	+ 10.2	....	....
28	N.	C.	6 22 9.35	+ 1.83	....	....	C.	66 19 20.9	+ 9.8	....	....
29	H.	C.	6 22 0.74	+ 1.96	....	....	C.	66 19 16.8	+ 10.3	....	....
31	N.	.	6 21 43.56	+ 1.80	0.16	+ 0.04	.	66 19 8.8	+ 11.0	1.8	0.0
Feb. 1	H.	C.	6 21.6.....	....	....	....	C.	66 19 3.8	+ 10.2	....	....

URANUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1867.			h m s	s	s	s		° ′ ″	″	″	″
Feb. 5	H.	C.	6 21 3.88	+ 1.80	....	....	C.	66 18 47.4	+ 9.3	....	....
6	T.	C.	6 20 56.45	+ 1.79	....	....	C.	66 18 44.1	+ 9.5	....	....
7	N.	C.	6 20 49.28	+ 1.88	....	....	C.	66 18 40.5	+ 9.4	....	....
11	N.	.	6 20 22.15	+ 1.81	0.19	+ 0.07	.	66 18 28.4	+ 9.8	1.8	0.0
12	H.	.	6 20 15.80	+ 1.75	0.22	+ 0.10	.	66 18 24.2	+ 8.4	1.8	0.0
18	T.	C.	6 19 42.21	+ 1.68	....	....	C.	66 18 11.6	+ 10.1	....	....
22	H.	C.	6 19 24.13	+ 1.78	....	....	C.	66 18 3.8	+ 9.3	....	...
26	H.	C.	6 19 9.43	+ 1.77	....	....	C.	66 17 58.1	+ 8.9	....	....
27	T.	C.	6 19 6.14	+ 1.60	....	....	C.	66 17 58.5	+ 10.3	...	....
Mar. 1	H.	C.	6 19 0.62	+ 1.65	....	....	.	66 17.9....	....	....	....
11	N.	.	6 18 46.66	+ 1.76	0.12	0.00	.	66 17 53.7	+ 8.9	1.5	− 0.3
14	N.	C.	6 18 46.97	+ 1.75	....	....	.	66 17.9....	....	....	....
18	N.	C.	6 18 50.63	+ 1.69	....	....	C.	66 17 59.3	+ 9.3	....	....
Oct. 15	N.	C.	6 56 9.72	+ 1.98	....	....	C.	66 49 23.0	+ 12.0	....	....
Nov. 6	N.	C.	6 55 29.14	+ 1.89	....	....	C.	66 47 53.8	+ 12.6	....	....
Dec. 13	A.	C.	6 50 44.04	+ 1.82	....	....	C.	66 41 6.6	+ 14.1	....	....
17	A.	C.	6 50 2.96	+ 1.82	....	....	C.	66 40 11.0	+ 12.6	....	....
23	H.	C.	6 48 56.79	+ 1.94	....	....	C.	66 38 49.7	+ 13.1	....	....
1868.											
Feb. 3	N.	C.	6 41 34.34	+ 1.74	....	....	.	66 30 39.6	+ 11.4	....	....
7	A.	C.	6 41 0.93	+ 1.44	....	....	.	66 30 7.9	+ 11.4	....	....
11	A.	C.	6 40 30.64	+ 1.62	....	....	.	66 29.7....	....	....	....
12	Ha.	C.	6 40 23.51	+ 1.67	....	....	.	66 29 30.4	+ 8.8	....	....
18	A.	I.	6 39 44.34	+ 1.60	....	....	.	66 28 56.1	+ 9.5	1.8	− 0.1
19	Ha.	C.	6 39 38.77	+ 1.86	....	....	.	66 28 53.1	+ 11.6	....	....
22	N.	.	6 39 22.28	+ 1.65	0.12	+ 0.01	.	66 28 38.6	+ 11.1	....	....
Mar. 19	E.	C.	6 38 24.32	+ 1.68	....	....	.	66 28 0.3	+ 11.0	....	....
Oct. 8	N.	C.	7 15 24.37	+ 2.03	....	....	.	67 16 37.4	+ 15.8	....	....
12	N.	C.	7 15 35.30	+ 1.99	....	....	.	67 16 48.4	+ 14.4	1.8	0.0
17	T.	C.	7 15 43.71	+ 1.89	....	....	.	67 16.9....	....	....	....
23	F.	C.	7 15 46.17	+ 1.80	....	....	.	67 16 49.5	+ 15.8	....	....
24	T.	.	7 15 45.90	+ 1.91	0.14	+ 0.03	.	67 16 48.4	+ 17.2	1.8	0.0
28	T.	.	7 15 42.08	+ 1.94	0.18	+ 0.07	N.	67 16 35.0	+ 18.1	....	....
Nov. 2	N.	C.	7 15 32.07	+ 1.89	....	....	.	67 16 2.4	+ 12.4	....	....
5	N.	.	7 15 23.52	+ 2.02	0.10	− 0.01	.	67 15 41.2	+ 12.2	....	....
6	E.	.	7 15 20.00	+ 1.83	0.26	+ 0.15	.	67 15 37.7	+ 16.4	....	....
11	T.	C.	7 15 0.18	+ 1.96	....	....	.	67 14 50.0	+ 13.0	....	....
12	N.	.	7 14 55.38	+ 1.80	0.10	− 0.01	.	67 14 39.8	+ 12.8	....	....
Dec. 1	T.	.	7 12 49.81	+ 1.73	0.22	+ 0.10	.	67 10 28.3	+ 11.4	1.5	− 0.4
5	T.	C.	7 12 15.51	+ 1.83	....	....	.	67 9 25.4	+ 13.3	....	....
8	F.	C.	7 11 48.29	+ 1.94	....	....	.	67 8.6....	....	....	....
17	N.	.	7 10 19.52	+ 1.84	0.14	+ 0.02	.	67 5 55.2	+ 13.8	2.0	+ 0.1
18	F.	.	7 10.1.....	....	....	....	.	67 5 38.6	+ 15.6	....	....
21	N.	.	7 9 37.47	+ 1.79	0.17	+ 0.05	.	67 4 41.0	+ 13.4	1.6	− 0.3
23	T.	.	7 9 15.98	+ 1.76	0.20	+ 0.08	.	67 4 3.7	+ 13.4	2.6	+ 0.7
1869.											
Jan. 6	N.	C.	7 6 40.89	+ 1.72	....	....	.	66 59 43.4	+ 13.5	2.3	+ 0.4
12	F.	.	7 5 33.89	+ 1.66	0.16	+ 0.04	.	66 57 55.6	+ 13.6	....	....
13	N.	C.	7 5 22.90	+ 1.73	....	....	.	66 57 38.1	+ 13.7	....	....
16	F.	.	7 4 50.04	+ 1.77	0.19	+ 0.07	.	66 56 45.6	+ 13.0	2.0	+ 0.1
19	F.	.	7 4 17.56	+ 1.68	0.22	+ 0.10	.	66 55 55.3	+ 13.1	2.8	+ 0.9
20	N.	C.	7 4 6.82	+ 1.60	....	...	.	66 55 38.9	+ 13.1	....	....
23	F.	C.	7 3 35.31	+ 1.60	....	....	.	66 54 50.0	+ 12.3	....	....
30	F.	C.	7 2 25.17	+ 1.47	....	....	.	66 53 4.7	+ 11.7	....	....
Feb. 1	N.	C.	7 2 6.35	+ 1.65	....	....	.	66 52 38.9	+ 13.8	....	....
5	F.	.	7 1 29.74	+ 1.47	0.14	+ 0.02	.	66 51 43.8	+ 11.3	2.8	+ 0.9
6	T.	.	7 1 21.09	+ 1.58	0.16	+ 0.04	.	66 51 32.6	+ 12.6	2.8	+ 0.9
8	N.	C.	7 1 4.16	+ 1.70	....	....	.	66 51 8.8	+ 13.0	....	....
10	T.	.	7 0 47.45	+ 1.43	0.14	+ 0.02	.	66 50 44.9	+ 12.2	4.0	+ 2.1

URANUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1869.			h m s	s	s	s		° ′ ″	″	″	″
Feb. 11	N.	.	7 0 39.63	+ 1.59	0.12	0.00	.	66 50 33.4	+ 11.9	....	....
12	F.	.	7 0 31.76	+ 1.51	0.20	+ 0.08	.	66 50 22.5	+ 11.8	2.0	+ 0.1
13	T.	C.	7 0 24.22	+ 1.60	....	....	.	66 50 11.7	+ 11.6	....	....
16	F.	.	7 0 2.22	+ 1.42	0.24	+ 0.13	.	66 49 40.6	+ 10.4	3.0	+ 1.1
19	F.	.	6 59 42.04	+ 1.40	0.10	− 0.01	S.	66 49 17.8	+ 14.8	....	....
20	T.	.	6 59 35.81	+ 1.51	0.14	+ 0.03	.	66 49 6.1	+ 11.6	2.4	+ 0.5
24	T.	.	6 59 12.38	+ 1.40	0.14	+ 0.03	.	66 48 36.2	+ 12.4	1.8	0.0
27	T.	.	6 58 56.98	+ 1.50	0.16	+ 0.05	.	66 48 17.8	+ 13.7	1.5	− 0.3
Mar. 1	F.	.	6 58 47.70	+ 1.46	0.20	+ 0.09	.	66 48 3.2	+ 10.7	3.1	+ 1.3
13	T.	C.	6 58 10.63	+ 1.43	....	....	.	66 47 21.7	+ 11.5	....	....
1870.											
Feb. 16	F.	C.	7 20 20.09	+ 1.56	....	....	.	67 20 20.3	+ 13.9	....	....
25	F.	.	7 19.3	....	....	....	.	67 18 25.8	+ 13.2	....	....
Mar. 2	E.	C.	7 18 48.48	+ 1.38	....	....	.	67 17 35.9	+ 12.7	....	....
3	F.	.	7 18 43.60	+ 1.57	0.14	+ 0.03	.	67 17 27.1	+ 12.5	....	....
5	E.	.	7 18 33.98	+ 1.46	0.20	+ 0.09	.	67 17 12.3	+ 13.8	1.6	− 0.2
11	E.	.	7 18 10.50	+ 1.37	0.14	+ 0.03	.	67 16 34.3	+ 14.0	....	....
18	F.	.	7 17 53.28	+ 1.38	0.11	0.00	.	67 16 7.3	+ 12.1	....	....
25	Ha.	C.	7 17 47.10	+ 1.34	....	....	.	67 16 5.4	+ 14.1	....	....
1872.		.									
Jan. 5	F.	.	8 8 17.17	+ 1.36	0.17	+ 0.05	.	69 12 57.6	+ 14.1	2.7	+ 1.8
17	F.	.	8 6 8.34	+ 1.39	0.17	+ 0.05	.	69 6 22.2	+ 15.7	....	....
24	E.	C.	8 4 51.88	+ 1.31	....	....	.	69 2 33.3	+ 16.5	....	....
25	F.	.	8 4 41.02	+ 1.30	0.18	+ 0.06	.	69 2 0.9	+ 16.4	....	....
Feb. 14	F.	.	8 1 16.30	+ 1.32	0.19	+ 0.07	.	68 52 5.8	+ 14.6	....	....
22	F.	.	8 0 5.76	+ 1.11	0.16	+ 0.04	.	68 48 51.0	+ 16.0	....	....
26	F.	.	7 59 34.21	+ 1.21	0.18	+ 0.07	.	68 47 23.5	+ 15.2	1.6	− 0.3
Mar. 5	F.	.	7 58 38.82	+ 1.11	0.16	+ 0.05	.	68 44 53.9	+ 14.0	....	....
6	S.	.	7 58 32.79	+ 1.17	0.18	+ 0.07	.	68 44 39.8	+ 16.0	2.0	+ 0.1
12	E.	.	7 58 0.08	+ 0.95	0.18	+ 0.07	.	68 43 15.3	+ 15.6	....	....
16	E.	.	7 57 42.57	+ 1.05	0.17	+ 0.06	.	63 42.5....	....	....	....
20	F.	.	7 57 28.27	+ 0.96	0.23	+ 0.12	.	68 41 56.6	+ 15.6	....	....
21	E.	.	7 57 25.34	+ 1.05	0.26	+ 0.15	.	68 41 48.3	+ 14.4	....	....
24	E.	.	7 57 17.56	+ 1.00	0.16	+ 0.05	.	68 41 32.1	+ 15.6	....	....
27	Ha.	C.	7 57 11.94	+ 1.12	....	....	.	68 41 19.3	+ 14.7	....	....
28	E.	.	7 57 10.48	+ 1.13	0.17	+ 0.06	.	68 41 18.3	+ 16.3	....	....
Apr. 2	E.	.	7 57 6.36	+ 1.04	0.20	+ 0.09	.	68 41 12.4	+ 14.3	....	....
10	F.	.	7 57 11.72	+ 1.06	0.15	+ 0.04	.	68 41 38.5	+ 13.7	....	....
13	E.	.	7 57 17.39	+ 0.98	0.20	+ 0.09	.	68 41 59.4	+ 14.1	....	....
1874.											
Feb. 10	E.	C.	8 42 7.72	+ 1.06	....	....	.	71 3 9.4	+ 14.5	....	....
17	E.	.	8 40 57.56	+ 0.88	0.12	− 0.01	.	70 58 47.5	+ 15.6	....	....
18	F.	.	8 40 47.86	+ 0.95	0.16	+ 0.03	.	70 58 12.5	+ 16.7	1.8	− 0.1
27	S.	.	8 39 25.82	+ 1.00	0.24	+ 0.11	.	70 53 10.1	+ 16.1	3.0	+ 1.1
Mar. 2	F.	C.	8 39 0.58	+ 0.85	....	....	.	70 51 40.2	+ 17.1	....	....
9	E.	.	8 38 7.25	+ 0.85	0.12	− 0.01	.	70 48 29.3	+ 17.0	....	....
11	S.	.	8 37 53.44	+ 0.84	0.24	+ 0.11	.	70 47 39.0	+ 15.3	....	....
12	S.	.	8 37 46.88	+ 0.92	0.20	+ 0.07	.	70 47 15.1	+ 14.8	....	....
19	E.	.	8 37 5.48	+ 0.93	0.18	+ 0.05	.	70 44 51.9	+ 14.9	....	....
Mar. 20	Sk.	C.	8 37 0.23	+ 0.84	....	....	.	70 44 35.5	+ 16.1	....	....
21	E.	.	8 36 55.36	+ 0.93	0.21	+ 0.08	.	70 44 18.1	+ 15.6	....	....
24	Sk.	C.	8 36 41.53	+ 0.80	....	....	.	70 43 32.0	+ 15.3	....	....
25	E.	.	8 36 37.44	+ 0.88	0.14	+ 0.01	.	70 43 18.8	+ 15.9	....	....
26	F.	.	8 36 33.48	+ 0.88	0.24	+ 0.11	.	70 43 6.4	+ 16.4	....	....
28	Sk.	C.	8 36 26.08	+ 0.79	.....	....	.	70 42 42.4	+ 15.9	....	....
29	E.	.	8 36 22.81	+ 0.86	0.14	+ 0.01	.	70 42 31.7	+ 15.8	....	....
30	F.	.	8 36.3.....	....	....	....	.	70 42 23.5	+ 17.4	....	....
Apr. 13	Sk.	C.	8 35 58.42	+ 0.89	....	....	.	70 41 28.2	+ 15.1	....	....
Dec. 15	F.	C.	9 10 36.37	+ 0.88	....	....	.	72 59 9.4	+ 16.5	....	....

URANUS—Continued.

Date	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1875.			h m s	s	s	s		° ′ ″	″	″	″
Mar. 13	F.	....	8 57 23.25	+ 0.82	....	....	....	72 1 50.0	+ 15.5	....	....
Apr. 21	E.	....	8 55 10.08	+ 0.68	....	....	...	71 53 51.5	+ 14.9	....	....
Dec. 20	P.	....	9 29 23.34	+ 1.04	....	....	....	74 23 44.5	+ 17.9	....	....
22	F.	....	9 29 12.37	+ 1.03	....	....	....	74 22 47.1	+ 17.6	....	....
1876.											
Jan. 12	S.	....	9 26 37.27	− 0.04	....	....	....	74 9 46.3	− 0.8	....	....
14	E.	....	9 26 19.29	− 0.08	0.19	− 0.06	...	74 8 18.6	− 0.5	2.1	+ 0.2
20	S.	....	9 25 23.10	0.00	....	....	....	74 3 45.2	+ 0.3	....	....
25	P.	....	9 24 33.86	− 0.01	....	....	....	73 59 48.9	+ 1.0	....	....
Feb. 2	P.	....	9 23 12.23	− 0.03	....	....	....	73 53 21.1	+ 1.7	....	....
16	F.	....	9 20 47.40	− 0.10	....	....	....	73 42 2.8	− 0.7	....	....
17	S.	....	9 20 37.37	+ 0.05	....	....	....	73 41.3	....	....	....
18	P.	....	9 20 27.14	− 0.04	....	....	....	73 40 29.9	− 0.2	....	....
19	E.	....	9 20 17.10	0.00	....	....	....	73 39 44.7	+ 0.9	....	....
Mar. 3	F.	....	9 18 12.88	+ 0.02	....	....	....	73 30 20.3	− 0.6	....	....
4	S.	....	9 18 3.92	− 0.06	....	....	....	73 29 40.1	− 1.1	....	....
5	P.	....	9 17 55.29	+ 0.08	....	....	....	73 29 3.4	+ 1.4	.....	....
6	E.	....	9 17 46.55	− 0.01	0.22	+ 0.09	....	73 28 23.8	+ 0.2	....	....
9	P.	....	9 17 21.39	+ 0.03	....	....	....	73 26 31.2	− 0.9	....	....
13	P.	....	9 16 49.67	+ 0.01	....	....	....	73 24 13.1	+ 0.4	....	....
21	P.	....	9 15 53.37	− 0.06	....	....	....	73 20 10.2	+ 0.9	....	....
Apr. 1	S.	....	9 14 54.29	+ 0.08	....	....	....	73 15 59.4	− 1.5	....	....
2	P	....	9 14 49.97	+ 0.01	....	....	....	73 15 43.8	+ 0.2	....	....
5	S.	....	9 14 38.51	+ 0.11	....	....	....	73 14 55.9	− 1.5	....	....
6	P.	....	9 14 35.01	+ 0.06	....	....	....	73 14 42.3	− 1.6	....	....
10	P.	....	9 14 23.15	0.00	....	....	....	73 13 58.7	− 0.2	....	....
12	F.	....	9 14 18.53	+ 0.04	....	....	....	73 13 43.3	+ 1.3	....	....
15	E.	....	9 14 13.00	− 0.06	0.16	+ 0.03	....	73 13 24.6	+ 0.8	2.2	+ 0.3
18	P.	....	9 14 9.45	− 0.08	....	....	....	73 13 14.1	− 0.2	....	....
19	E.	....	9 14 8.68	− 0.10	0.14	+ 0.01	....	73 13 12.7	− 0.4	2.1	+ 0.3
20	F.	....	9 14 8.25	+ 0.01	0.18	+ 0.05	....	73 13 12.1	− 0.7	....	....
22	P.	....	9 14 7.76	− 0.05	....	....	....	73 13 15.1	− 0.1	....	....
26	F.	....	9 14 9.37	− 0.14	....	....	....	73 13 32.1	+ 0.6	....	....
May 1	E.	....	9 14 16.44	− 0.03	....	....	....	73 14 15.1	+ 1.4	....	....
Nov. 8	P.	....	9 48 19.88	− 0.07	....	....	....	75 58 28.9	− 0.5	....	....
Dec. 12	F.	....	9 48 46.48	− 0.14	....	....	....	75 59 11.3	− 1.7	....	....
13	S.	....	9 48 43.55	− 0.11	....	....	....	75 58 52.7	− 2.3	....	....
20	F.	....	9 48 17.10	− 0.09	....	....	....	75 56 20.2	− 0.4	....	....
1877.											
Jan. 26	S.	....	9 43 41.16	+ 0.15	....	....	....	75 31 39.4	+ 0.6	....	....
27	P.	....	9 43 31.38	+ 0.08	....	....	....	75 30 49.1	+ 0.6	....	....
30	S.	....	9 43 1.90	+ 0.16	....	....	....	75 28 16.6	+ 0.5	....	....
Feb. 3	S.	....	9 42 21.72	+ 0.11	....	...	....	75 24 48.7	− 1.6	....	....
6	F.	....	9 41 51.32	+ 0.18	....	....	....	75 22.2	....	....	....
13	E.	....	9 40 39.48	+ 0.10	0.18	+ 0.05	....	75 16 13.2	+ 1.2	....	....
15	S.	....	9 40 19.04	+ 0.12	....	....	....	75 14 28.0	− 1.2	....	....
17	E.	....	9 39 58.68	+ 0.15	....	....	....	75 12 47.3	+ 0.3	....	....
19	S.	....	9 39 38.36	+ 0.12	....	....	...	75 11 6.2	+ 0.2	....	....
21	E.	....	9 39 18.26	+ 0.14	0.20	+ 0.07	....	75 9 27.5	+ 1.5	1.0	− 0.9
25	E.	....	9 38.6	....	....	....	....	75 6 10.4	+ 0.3	....	....
27	S.	....	9 38 19.23	+ 0.13	....	....	....	75 4 35.8	+ 1.3	....	....
Mar. 9	E.	....	9 36 47.14	+ 0.14	0.20	+ 0.07	....	74 57 7.4	+ 1.2	....	....
23	S.	....	9 34 57.92	+ 0.13	....	....	....	74 48 26.9	− 0.2	....	....
29	E.	....	9 34 20.28	+ 0.16	0.18	+ 0.05	...	74 45 33.2	+ 0.4	....	....
Apr. 5	P.	....	9 33 44.30	+ 0.17	....	....	....	74 42 50.8	+ 0.6	....	....
6	E.	....	9 33 39.88	+ 0.15	0.16	+ 0.03	....	74 42 32.5	+ 1.8	...	....
7	F.	....	9 33 35.65	+ 0.12	....	....	....	74 42 13.4	+ 1.2	....	....
11	F.	....	9 33 20.75	+ 0.08	....	....	....	74 41 10.4	+ 2.5	....	....
12	S.	....	9 33 17.59	+ 0.14	....	....	....	74 40 55.4	+ 1.1	....	....

URANUS.—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascension of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1877.			h m s	s	s	s		° ′ ″	″	″	″
Apr. 21	P.	.	9 32 57.68	+ 0.06	....	....	.	74 39 38.7	+ 1.2	....	....
Nov. 27	P.	.	10 7 22.71	+ 0.11	....	....	.	77 37 58.7	+ 0.2	....	....
1878.											
Mar. 20	E.	.	9 54 28.40	+ 0.10	0.18	+ 0.05	C.	76 26 16.0	− 0.7	....	....
23	P.	C.	9 54 5.48	+ 0.14	....	....	C.	76 24 21.6	+ 1.3	....	....
Apr. 13	E.	.	9 52 4.81	+ 0.12	0.12	− 0.01	C.	76 14 26.8	− 0.3	....	....
17	E.	.	9 51 50.81	+ 0.05	0.17	+ 0.04	C.	76 13 23.5	+ 0.2	....	....
1879.											
Feb. 15	S.	.	10 18 43.12	+ 0.18	....	....	.	78 37 43.3	+ 0.4	....	....
Mar. 18	P.	.	10 13 45.23	+ 0.20	....	....	.	78 9.9	....	....	....
19	Pr.	.	10 13 36.71	+ 0.23	....	....	.	78 9 9.8	− 0.2	....	....
24	F.	.	10 12 55.65	+ 0.20	....	....	.	78 5 27.9	+ 0.3	....	....
Apr. 1	F.	.	10 11 56.82	+ 0.15	....	....	.	78 0 14.3	+ 1.3	....	....
2	P.	.	10 11 50.13	+ 0.15	....	....	.	77 59 37.6	0.0	....	....
8	Pr.	.	10 11 13.35	+ 0.16	....	....	.	77 56 23.2	− 1.4	....	....
12	Pr.	.	10 10 52.09	+ 0.08	....	....	.	77 54.6	....	....	....
22	S.	.	10 10 11.92	+ 0.13	....	....	.	77 51 14.0	− 1.1	....	....
26	S.	.	10 10 1.18	+ 0.10	....	....	.	77 50 25.7	+ 0.2	....	....
1880.											
Mar. 17	E.	.	10 32 36.58	+ 0.18	0.16	+ 0.03	.	79 57 24.9	+ 0.3	....	....
21	E.	.	10 32 1.33	+ 0.12	0.16	+ 0.03	.	79 54 3.0	+ 0.4	....	....
25	E.	.	10 31 27.85	+ 0.20	0.12	− 0.01	.	79 50 51.7	+ 0.6	....	....
30	E.	.	10 30 48.40	+ 0.08	0.18	+ 0.05	.	79 47 10.2	+ 1.7	....	....
Apr. 10	E.	.	10 29 33.90	− 0.02	0.18	+ 0.05	.	79 40 14.7	+ 0.3	....	....
12	S.	.	10 29 22.57	+ 0.16	....	....	.	79 39 12.7	+ 1.3	....	....
14	E.	.	10 29 11.67	+ 0.09	0.16	+ 0.03	.	79 38 13.9	+ 1.3	....	....
16	S.	.	10 29 1.54	+ 0.10	....	....	.	79 37 19.3	+ 1.3	....	....
20	S.	.	10 28 43.34	+ 0.04	0.14	+ 0.01	.	79 35 41.7	+ 0.2	....	....
22	E.	.	10 28 35.35	+ 0.03	0.17	+ 0.04	.	79 35 1.7	+ 1.8	....	....
May 10	S.	.	10 27 58.16	+ 0.08	....	....	.	79 32 9.7	+ 0.5	....	....
1881.											
Feb. 16	R.	.	10 55 58.93	+ 0.14	0.14	+ 0.01	.	82 17 46.8	+ 0.4	....	....
Apr. 23	E.	.	10 46 51.80	+ 0.08	0.14	+ 0.01	.	81 23 9.2	+ 0.9	....	....
28	S.	C.	10 46 31.54	+ 0.14	....	....	.	81 21 17.4	0.0	....	....
May 7	R.	C.	10 46 6.84	+ 0.18	....	....	.	81 19 10.5	+ 0.5	....	....
9	E.	.	10 46 3.40	+ 0.11	0.15	+ 0.02	.	81 18 55.8	− 0.2	....	....
10	S.	C.	10 46 2.10	+ 0.20	....	....	.	81 18 50.4	+ 0.2	....	....
1882.											
Feb. 10	R.	.	11 15 23.51	+ 0.16	0.22	+ 0.09	C.	84 19 19.3	+ 1.5	....	....
Mar. 2	R.	.	11 12 19.97	+ 0.03	0.21	+ 0.08	C.	83 59 43.9	+ 1.1	....	....
14	R.	.	11 10 24.04	+ 0.08	0.16	+ 0.03	C.	83 47 34.8	+ 1.4	....	....
29	S.	.	11 8 6.25	+ 0.08	0.21	+ 0.08	.	83 33 21.7	+ 1.2	1.9	0.0
30	R.	.	11 7 57.64	+ 0.06	0.20	+ 0.07	C.	83 32 29.6	+ 1.7	....	....
Apr. 11	R.	.	11 6 23.04	+ 0.12	0.14	+ 0.01	C.	83 22 55.2	+ 1.5	....	....
13	E.	.	11 6 8.90	+ 0.02	0.19	+ 0.06	C.	83 21 30.5	+ 0.9	....	....
17	W.	.	11 5 42.70	+ 0.19	0.24	+ 0.11	C.	83 18 52.2	− 0.5	....	....
18	W.	.	11 5 36.33	+ 0.04	0.12	− 0.01	.	83 18 16.2	+ 0.3	2.0	+ 0.1
24	W.	C.	11 5 2.57	+ 0.25	....	....	C.	83 14 56.2	− 0.7	....	....
27	R.	.	11 4 47.65	+ 0.08	0.16	+ 0.03	C.	83 13 33.6	+ 1.7	....	....
1883.											
April 14	S.	C.	11 24 21.32	+ 0.15	....	....	C.	85 17 3.8	+ 1.3	....	....
17	E.	.	11 23 59.74	+ 0.10	0.15	+ 0.02	C.	85 14 51.2	+ 0.7	....	....
21	E.	.	11 23 33.04	+ 0.15	0.16	+ 0.03	C.	85 12 8.6	+ 1.2	....	....
May 3	E.	.	11 22 27.42	+ 0.16	0.15	+ 0.02	C.	85 5 37.9	+ 2.3	....	....
4	S.	C.	11 22 23.07	+ 0.20	....	....	C.	85 5 12.3	+ 2.2	....	....
16	S.	C.	11 21 44.46	+ 0.13	....	....	C.	85 1 37.1	+ 1.5	....	....
1884.											
Mar. 28	P.	C.	11 44 56.87	+ 0.16	....	....	C.	87 30 6.5	+ 0.4	....	....
Apr. 4	S.	C.	11 43 53.60	+ 0.17	....	....	C.	87 23 25.3	+ 2.4	....	....

URANUS—Continued.

Date.	Observer.	Part Observed.	Apparent Right Ascention of Center.	Correction to Am. Eph.	Sidereal Time of Transit of Semi-diameter.	Correction to Am. Eph.	Part Observed.	Geocentric N. P. Distance of Center.	Correction to Am. Eph.	Vertical Semi-diameter.	Correction to Am. Eph.
1884.			h m s	s	s	s		° ′ ″	″	″	″
Apr. 5	P.	C.	11 43 44.84	+ 0.15	....	....	C.	87 22 27.1	− 0.3	....	....
17	P.	C.	11 42 7.21	+ 0.08	....	....	C.	87 12 13.9	+ 0.5	....	....
18	W.	C.	11 41 59.89	+ 0.16	....	....	C.	87 11 27.3	+ 0.1	....	....
19	E.	.	11 41 52.51	+ 0.08	0.20	+ 0.07	C.	87 10 43.2	+ 1.3	....	....
May 1	W.	.	11 40 36.00	+ 0.08	0.12	− 0.01	.	87 2 53.0	+ 1.4	2.6	+ 0.7
12	W.	.	11 39 45.98	+ 0.02	0.12	− 0.01	.	86 57.9	....	....	....
20	W.	.	11 39 23.26	+ 0.20	0.08	− 0.05	.	86 55 50.1	+ 1.8	2.7	+ 0.8
1885.											
Apr. 13	W.	C.	12 0 53.70	+ 0.22	....	....	C.	89 15 7.4	+ 0.5	....	....
20	P.	C.	11 59 57.27	+ 0.32	....	....	C.	89 9 10.6	+ 0.8	....	....
22	E.	.	11 59 41.94	+ 0.13	0.16	+ 0.03	C.	89 7 35.5	+ 0.7	....	....
23	S.	C.	11 59 34.65	+ 0.23	....	....	C.	89 6 49.0	+ 0.5	....	....
29	W.	C.	11 58 53.05	+ 0.21	....	....	C.	89 2 29.8	+ 0.2	....	....
May 4	S.	C.	11 58 22.21	+ 0.17	....	....	C.	88 59 20.3	+ 0.5	....	....
8	E.	.	11 58 0.46	+ 0.30	0.18	+ 0.05	C.	88 57 8.6	+ 1.9	....	....
9	S.	C.	11 57 55.27	+ 0.18	....	....	C.	88 56 36.5	+ 0.4	....	....
1886.											
Apr. 1	E.	.	12 20 59.53	+ 0.13	0.18	+ 0.05	C.	91 26 56.4	+ 1.8	....	....
9	E.	.	12 19 45.10	+ 0.11	0.11	− 0.02	C.	91 18 58.6	− 0.3	....	....
14	S.	C.	12 19 0.40	+ 0.10	....	....	.	91 14.2	....	....	....
15	P.	C.	12 18 51.76	+ 0.18	....	....	C.	91 13 20.3	+ 0.7	....	....
17	E.	.	12 18 34.49	+ 0.09	0.15	+ 0.02	C.	91 11 30.6	− 0.2	....	....
21	E.	.	12 18 1.24	+ 0.13	0.16	+ 0.03	C.	91 7 58.6	− 2.1	....	....
22	S.	C.	12 17 53.26	+ 0.23	....	....	C.	91 7 10.6	+ 0.7	....	....
May 3	E.	.	12 16 31.92	+ 0.10	0.18	+ 0.05	C.	90 58 42.0	− 1.2	....	....
1887.											
May 14	E.	.	12 33 25.91	+ 0.12	0.16	+ 0.03	C.	92 49 52.3	− 1.1	....	....
16	P.	.	12 33 14.65	+ 0.18	....	....	.	92 48 46.0	+ 0.9	....	....
18	E.	.	12 33 3.84	+ 0.08	0.12	− 0.01	C.	92 47 41.2	+ 0.3	....	....
19	S.	.	12 32 58.74	+ 0.09	....	....	.	92 47 10.0	− 0.5	....	....
21	E.	.	12 32 49.04	+ 0.11	....	....	.	92 46 12.6	− 0.1	....	....
25	E.	.	12 32 31.69	+ 0.16	0.20	+ 0.07	C.	92 44 29.9	− 0.7	....	....
29	W.	.	12 32 17.12	+ 0.19	....	....	.	92 43 8.2	+ 1.4	....	....

OBSERVATIONS OF NEPTUNE.

1866–1891.

NEPTUNE.

Date.	Observer.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.	Geocentric N.P. Distance of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.
1866.		h	m	s	s	s	°	′	″	″	″
July 26	N.	0	49	33.52	− 3.29	+ 0.10	86	23	26.3	+ 21.0	+ 0.1
28	T.	0	49	30.84	− 3.34	+ 0.07	86	23	51.9	+ 22.6	+ 1.7
Aug. 3	T.	0	49	20.12	− 3.35	+ 0.07	86	25	20.0	+ 21.9	+ 1.1
4	R.	0	49	18.01	− 3.28	+ 0.14	86	25	36.2	+ 20.9	+ 0.1
6	N.	0	49	13.31	− 3.29	+ 0.12	86	26	13.5	+ 21.9	+ 1.1
9	R.	0	49	5.48	− 3.26	+ 0.14	86	27	12.6	+ 21.3	+ 1.4
10	H.	0	49	2.57	− 3.34	+ 0.07	86	27	32.5	+ 20.0	− 0.9
14	R.	0	48.9	....	....	....	86	29	3.9	+ 20.4	− 0.3
15	T.	0	48	46.90	− 3.29	+ 0.10	86	29	28.4	+ 20.6	0.0
16	R.	0	48	43.61	− 3.13	+ 0.26	86	29	55.1	+ 22.5	+ 1.8
17	H.	0	48	39.80	− 3.41	− 0.02	86	30	18.4	+ 20.4	− 0.3
18	T.	0	48	36.33	− 3.24	+ 0.15	86	30.7	....	....	...
20	N.	0	48	28.73	− 3.28	+ 0.11	86	31	37.8	+ 20.2	− 0.5
22	T.	0	48	20.68	− 3.41	+ 0.00	86	32	33.4	+ 19.9	− 0.7
23	R.	0	48	16.84	− 3.15	+ 0.25	86	33	2.3	+ 20.1	− 0.5
Sept. 8	T.	0	47	0.34	− 3.24	+ 0.14	86	41	44.0	+ 20.5	− 0.2
12	T.	0	46	38.53	− 3.25	+ 0.12	86	44	8.8	+ 19.8	− 0.7
13	R.	0	46	32.85	− 3.35	+ 0.02	86	44	46.3	+ 20.3	− 0.3
14	T.	0	46	27.20	− 3.37	0.00	86	45	22.1	+ 18.8	− 1.9
15	R.	0	46	21.75	− 3.14	+ 0.22	86	46	0.2	+ 19.3	− 1.3
21	T.	0	45	46.66	− 3.33	+ 0.04	86	49.8	....	....	...
22	N.	0	45	40.72	− 3.32	+ 0.05	86	50	29.0	+ 19.7	− 0.8
24	N.	0	45	28.70	− 3.36	0.00	86	51	48.6	+ 21.2	+ 0.7
27	N.	0	45	10.56	− 3.38	0.00	86	53	46.7	+ 21.5	+ 1.0
28	R.	0	45	4.80	− 3.06	+ 0.32	86	54	25.9	+ 21.3	+ 1.0
Oct. 3	H.	0	44	34.01	− 3.21	+ 0.12	86	57	42.5	+ 20.7	+ 0.4
5	H.	0	44	21.60	− 3.32	0.00	86	59	1.9	+ 21.3	+ 1.1
6	N.	0	44	15.61	− 3.16	+ 0.15	86	59	40.2	+ 20.3	+ 0.1
13	N.	0	43	32.78	− 3.24	+ 0.06	87	4	11.7	+ 20.2	+ 0.3
15	N.	0	43	20.75	− 3.20	+ 0.11	87	5	28.3	+ 20.7	+ 0.8
16	R.	0	43	14.76	− 3.22	+ 0.09	87	6	5.2	+ 20.0	+ 0.1
17	H.	0	43	8.75	− 3.26	+ 0.04	87	6	42.6	+ 19.9	+ 0.1
18	R.	0	43	2.82	− 3.25	+ 0.04	87	7	19.6	+ 19.7	− 0.1
19	H.	0	42	56.88	− 3.29	0.00	87	7	57.3	+ 20.5	+ 0.7
20	N.	0	42	51.08	− 3.28	+ 0.06	87	8	33.1	+ 19.7	− 0.2
25	R.	0	42	22.47	− 3.11	+ 0.15	87	10	32.2	+ 20.6	+ 0.6
27	N.	0	42	11.26	− 3.16	+ 0.09	87	12.7	....	....	...
30	R.	0	41	55.07	− 3.01	+ 0.23	87	14	20.6	+ 19.7	− 0.2
Nov. 1	R.	0	41	44.31	− 3.18	+ 0.05	87	15	25.1	+ 19.5	− 0.3
2	H.	0	41	39.21	− 3.07	+ 0.15	87	15	57.1	+ 19.7	0.0
5	N.	0	41	23.87	− 3.21	− 0.01	87	17	28.8	+ 19.3	− 0.2
6	R.	0	41.4	.....	....	....	87	17	57.1	+ 17.9	− 1.6
7	T.	0	41	14.13	− 3.18	+ 0.02	87	18	28.4	+ 20.0	+ 0.6
8	R.	0	41	9.42	− 3.13	+ 0.08	87	18	56.9	+ 19.9	+ 0.5
9	H.	0	41	4.65	− 3.21	0.00	87	19	24.1	+ 19.1	− 0.4
13	R.	0	40	46.89	− 3.03	+ 0.17	87	21	10.7	+ 19.2	− 0.2
20	R.	0	40	19.05	− 2.96	+ 0.22	87	23	54.0	+ 20.3	+ 1.0
21	T.	0	40	15.03	− 3.37	− 0.20	87	24	14.3	+ 20.0	+ 0.8
26	T.	0	39	58.86	− 3.06	+ 0.08	87	25	43.5	+ 16.8	− 2.3
Dec. 4	R.	0	39	38.30	− 2.96	+ 0.16	87	27	37.3	+ 21.0	+ 1.8
5	N.	0	39	36.19	− 3.00	+ 0.11	87	27	45.3	+ 18.8	− 0.4
7	R.	0	39	32.47	− 2.96	+ 0.16	87	28	4.4	+ 19.7	+ 0.5
8	T.	0	39	30.62	− 3.10	+ 0.02	87	28	11.9	+ 19.3	+ 0.1
10	R.	0	39	27.67	− 3.00	+ 0.11	87	28	25.8	+ 19.8	+ 0.7
11	T.	0	39	26.26	− 3.07	+ 0.04	87	28	28.9	+ 17.4	− 1.7
12	R.	0	39	25.10	− 3.12	0.00	87	28	35.1	+ 18.9	− 0.2
17	R.	0	39	20.99	− 2.92	+ 0.20	87	28	46.0	+ 18.6	− 0.6
20	T.	0	39	19.84	− 3.06	+ 0.06	87	28	43.4	+ 18.9	− 0.1
28	H.	0	39	22.91	− 2.89	+ 0.23	87	28	58.9	+ 18.8	− 0.2
1867.											
Jan. 11	N.	0	39	47.47	− 3.01	+ 0.09	87	24	36.6	+ 18.7	− 0.1
July 29	N.	0	57	54.04	− 3.78	+ 0.01	85	33	11.0	+ 22.3	0.0
31	T.	0	57	51.37	− 3.68	+ 0.11	85	33	34.7	+ 21.5	− 0.8
Aug. 3	T.	0	57	46.19	− 3.84	− 0.04	85	34	16.3	+ 21.1	− 1.4

NEPTUNE—Continued.

Date.		Observer.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.
1867.			h	m	s	s	s	°	′	″	″	″
Aug.	6	H.	0	57	40.19	− 3.81	− 0.01	85	35	5.9	+ 21.9	− 0.6
	10	T.	0	57	30.46	− 3.91	− 0.10	85	36	18.6	+ 21.5	− 1.1
	12	N.	0	57	25.17	− 3.75	+ 0.06	85	36	59.0	+ 21.1	− 1.5
	17	T.	0	57	9.62	− 3.85	− 0.03	85	38	53.1	+ 22.4	− 0.2
	23	H.	0	56.9	.....	....	....	85	41	28.5	+ 23.2	+ 0.8
	26	R.	0	56	35.75	− 3.70	+ 0.11	85	42	50.7	+ 20.7	− 1.6
Sept.	4	T.	0	55	54.55	− 3.77	+ 0.01	85	47	32.0	+ 21.7	− 0.5
	5	H.	0	55	49.60	− 3.78	0.00	85	48	4.7	+ 21.1	− 1.2
	6	N.	0	55	44.55	− 3.81	− 0.03	85	48	38.8	+ 21.6	− 0.7
	11	T.	0	55	18.50	− 3.75	+ 0.02	85	51	32.7	+ 21.8	− 0.5
	12	N.	0	55	13.23	− 3.61	+ 0.16	85	52	9.2	+ 22.4	+ 0.1
	10	T.	0	54	39.57	− 3.75	+ 0.01	85	55	49.8	+ 22.6	+ 0.3
	19	N.	0	54	33.72	− 3.84	− 0.08	85	56	28.4	+ 23.6	+ 1.3
	23	H.	0	54	10.44	− 3.67	+ 0.09	85	59.0	....	....	...
	24	T.	0	54	4.46	− 3.68	+ 0.07	85	59	35.6	+ 19.9	− 2.3
	30	N.	0	53	28.20	− 3.72	− 0.03	86	3	32.2	+ 23.1	+ 1.2
Oct.	1	H.	0	53	22.14	− 3.66	+ 0.09	86	4	10.4	+ 22.1	+ 0.2
	7	N.	0	52	45.19	− 3.73	+ 0.01	86	8	5.3	+ 22.3	+ 0.5
	8	H.	0	52	39.21	− 3.55	+ 0.19	86	8	43.5	+ 21.5	− 0.3
	11	H.	0	52	20.58	− 3.74	0.00	86	10	40.3	+ 21.9	+ 0.1
	14	H.	0	52	2.24	− 3.71	+ 0.02	86	12	35.4	+ 21.8	0.0
	15	A.	0	51	56.09	− 3.77	− 0.04	86	13	13.3	+ 21.7	− 0.1
	16	T.	0	51	50.14	− 3.64	+ 0.07	86	13	51.0	+ 21.4	− 0.3
	17	H.	0	51	44.05	− 3.68	+ 0.02	86	14	28.3	+ 21.0	− 0.7
	18	A.	0	51	37.96	− 3.75	− 0.05	86	15	5.7	+ 20.9	− 0.8
	19	H.	0	51	32.08	− 3.63	+ 0.07	86	15	43.6	+ 21.5	− 0.2
	23	H.	0	51	8.46	− 3.56	+ 0.12	86	18	10.6	+ 22.0	+ 0.4
	24	A.	0	51	2.49	− 3.69	− 0.01	86	18	45.8	+ 21.3	− 0.3
	26	H.	0	50	51.05	− 3.61	+ 0.05	86	19	57.1	+ 21.7	+ 0.2
	31	H.	0	50	23.00	− 3.67	− 0.04	86	22	47.8	+ 21.7	+ 0.4
Nov.	19	A.	0	48	52.11	− 3.52	+ 0.07	86	31	47.8	+ 21.7	+ 0.7
	20	T.	0	48	48.22	− 3.46	+ 0.12	86	32	9.3	+ 20.5	− 0.5
	26	A.	0	48	26.54	− 3.47	+ 0.10	86	34	13.3	+ 22.6	+ 1.7
	30	T.	0	48	14.07	− 3.58	− 0.02	86	35	18.8	+ 20.8	0.0
Dec.	7	T.	0	47	56.96	− 3.39	+ 0.15	86	36	48.4	+ 21.2	+ 0.5
	9	H.	0	47	52.82	− 3.64	− 0.10	86	37	6.8	+ 20.9	+ 0.3
	13	A.	0	47	46.70	− 3.41	+ 0.12	86	37	33.3	+ 19.6	− 0.9
	16	H.	0	47	42.98	− 3.65	− 0.12	86	37	47.6	+ 21.4	+ 1.0
	17	A.	0	47.7	.....	....	....	86	37	51.6	+ 22.8	+ 2.3
	19	H.	0	47	40.80	− 3.47	+ 0.05	86	37	51.9	+ 20.6	0.0
	23	H.	0	47	39.49	− 3.42	+ 0.08	86	37	47.5	+ 20.7	+ 0.1
	28	T.	0	47	40.52	− 3.54	− 0.05	86	37	22.5	+ 19.6	− 0.9
1868.												
Aug.	12	T.	1	5	52.31	− 4.12	+ 0.14	84	46	24.6	+ 24.3	+ 0.5
	22	T.	1	5	20.30	− 4.17	+ 0.10	84	50	14.9	+ 25.4	+ 0.6
	26	T.	1	5	4.76	− 4.15	+ 0.11	84	52	0.7	+ 23.4	− 0.3
	29	T.	1	4	52.14	− 4.16	+ 0.09	84	53	27.4	+ 23.7	+ 0.1
Sept.	5	T.	1	4	19.80	− 4.17	+ 0.12	84	57	5.6	+ 24.0	+ 0.2
	7	F.	1	4	9.99	− 4.06	+ 0.23	84	58	13.1	+ 25.3	+ 1.7
	8	Ha.	1	4	4.59	− 4.39	− 0.10	84	58	46.7	+ 25.3	+ 1.7
	10	Ha.	1	3	54.31	− 4.32	− 0.04	84	59	52.1	+ 22.5	− 1.0
	17	Ha.	1	3	16.29	− 4.18	+ 0.06	85	4	4.4	+ 25.7	+ 2.0
	18	Ha.	1	3	10.70	− 4.09	+ 0.15	85	4	40.5	+ 25.2	+ 1.4
	30	F.	1	1	59.62	− 4.13	+ 0.07	85	12	16.0	+ 25.9	+ 2.1
Oct.	1	T.	1	1	53.45	− 4.19	0.00	85	12	56.1	+ 27.2	+ 3.4
	5	N.	1	1	28.88	− 4.19	+ 0.01	85	15	28.8	+ 24.8	+ 1.1
	12	N.	1	0	45.72	− 4.09	+ 0.10	85	19	59.3	+ 24.9	+ 1.3
	17	T.	1	0	14.99	− 4.11	+ 0.05	85	23	6.6	+ 22.1	− 1.4
	23	F.	0	59.6	.....	....	....	85	26	52.5	+ 26.4	+ 3.1
	24	T.	0	59	33.02	− 4.06	+ 0.06	85	27	26.5	+ 24.4	+ 1.1
	26	E.	0	59	21.40	− 3.99	+ 0.13	85	28	37.6	+ 24.5	+ 1.3
	28	T.	0	59	9.84	− 4.05	+ 0.07	85	29	45.0	+ 22.2	− 1.0
	29	E.	0	59	4.02	− 4.18	− 0.06	85	30	19.6	+ 22.5	− 0.7
	30	F.	0	58	58.66	− 3.89	+ 0.22	85	30	56.7	+ 25.6	+ 2.3

NEPTUNE—Continued.

Date.	Observer.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.
		h	m	s	s	s	°	′	″	″	″
1868.											
Nov. 2	N.	0	58	41.97	− 3.99	+ 0.12	85	32	35.1	+ 24.4	+ 1.1
5	N.	0	58	25.85	− 4.03	+ 0.08	85	34	9.1	+ 22.6	− 0.6
6	E.	0	58	20.62	− 4.04	+ 0.08	85	34	44.3	+ 26.7	+ 3.5
7	T.	0	58	15.43	− 4.04	+ 0.07	85	35	14.4	+ 26.1	+ 3.0
9	N.	0	58	5.24	− 4.10	− 0.02	85	36	11.9	+ 23.7	+ 0.7
11	T.	0	57	55.46	− 4.02	+ 0.02	85	37	9.2	+ 23.4	+ 0.5
12	N.	0	57	50.62	− 4.05	− 0.02	85	37	36.3	+ 22.4	− 0.4
13	E.	0	57	46.03	− 3.91	+ 0.11	85	38	4.6	+ 23.2	+ 0.4
14	T.	0	57	41.24	− 4.07	− 0.06	85	38	32.7	+ 24.3	+ 1.6
18	T.	0	57	23.80	− 3.78	+ 0.22	85	40	13.4	+ 22.9	+ 0.2
23	N.	0	57	3.60	− 3.95	+ 0.05	85	42	6.5	+ 22.7	+ 0.1
27	T.	0	56	49.21	− 4.08	− 0.08	85	43	23.0	+ 20.7	− 2.2
Dec. 1	T.	0	56	36.71	− 3.98	+ 0.01	85	44	33.4	+ 23.9	+ 0.6
2	F.	0	56	33.89	− 3.92	+ 0.07	85	44	50.1	+ 25.6	+ 2.2
10	N.	0	56	15.10	− 3.77	+ 0.20	85	46	22.7	+ 23.9	+ 0.7
17	N.	0	56	4.63	− 3.96	− 0.02	85	47	4.0	+ 22.3	+ 0.1
21	N.	0	56	1.62	− 3.84	+ 0.09	85	47	10.4	+ 22.4	+ 0.2
22	F.	0	56	1.11	− 3.89	+ 0.04	85	47	8.6	+ 21.1	− 1.1
23	T.	0	56	0.74	− 3.92	....	85	47	9.7	+ 23.6	+ 1.4
1869.											
Jan. 6	N.	0	56	9.50	− 3.89	+ 0.05	85	45.4	....	....	....
13	N.	0	56	23.33	− 3.81	+ 0.11	85	43	36.0	+ 22.0	0.0
1871.											
Sept. 4	Ha.	1	30	16.52	+ 0.04	....	82	24	56.8	+ 0.1	....
5	F.	1	30	12.27	+ 0.08	....	82	25	24.0	− 0.7	....
29	Ha.	1	28	6.76	0.00	....	82	38	32.8	− 0.7	....
Oct. 12	F.	1	26	47.20	− 0.03	....	82	46	34.0	− 1.4	....
27	Ha.	1	25	13.83	− 0.02	....	82	55	48.1	0.0	....
Nov. 17	F.	1	23	15.17	− 0.03	....	83	7	5.6	− 1.0	....
Dec. 8	F.	1	21	49.55	− 0.02	....	83	14	45.7	+ 0.8	....
16	F.	1	21	29.01	− 0.01	....	83	16	21.9	+ 0.4	....
1872.											
Sept. 18	F.	1	37	45.85	+ 0.08	....	81	43	9.3	+ 1.8	....
Nov. 4	F.	1	33	2.05	− 0.09	....	82	10	59.9	+ 0.8	....
7	E.	1	32	44.43	− 0.19	....	82	12.6	....	....	....
8	F.	1	32	38.86	− 0.20	....	82	13	9.6	− 0.5	....
12	F.	1	32	16.33	− 0.11	....	82	15	15.6	+ 0.6	....
15	E.	1	32	0.27	0.00	....	82	16	44.7	+ 0.4	....
23	E.	1	31	20.28	− 0.04	....	82	20	21.6	+ 0.1	....
27	E.	1	31	2.24	− 0.07	....	82	21	57.9	+ 0.3	....
28	F.	1	30	58.15	− 0.11	....	82	22	21.0	+ 0.9	....
1873.											....
Oct. 8	E.	1	44	35.19	+ 0.02	....	81	5	39.1	+ 0.4	....
Nov. 10	Hn.	1	41	10.69	− 0.03	....	81	24	54.0	− 1.5	....
12	S.	1	40	59.37	+ 0.10	....	81	25	58.0	− 0.2	....
13	E.	1	40	53.64	+ 0.01	....	81	26	28.1	− 0.8	....
14	Hn.	1	40	48.17	+ 0.13	....	81	26	59.8	− 1.0	....
18	F.	1	40	26.40	+ 0.05	....	81	28	56.3	0.0	....
21	E.	1	40	10.86	+ 0.04	....	81	30	20.1	+ 0.7	....
25	E.	1	39	51.18	0.00	....	81	32	3.0	0.0	....
28	E.	1	39	37.48	+ 0.13	....	81	33	15.6	+ 0.5	....
Dec. 18	Sk.	1	38	28.07	− 0.01	....	81	38	54.0	− 0.4	....
1874.											
Oct. 12	F.	1	52	58.12	+ 0.06	....	80	19	38.0	+ 0.3	....
19	E.	1	52	13.97	+ 0.10	....	80	23	46.6	− 0.3	....
23	E.	1	51	48.50	+ 0.11	....	80	26	8.0	− 1.0	....
25	E.	1	51	35.77	+ 0.11	....	80	27	18.4	− 1.3	....
26	Sk.	1	51	29.46	+ 0.16	....	80	27	55.1	+ 0.2	....
29	E.	1	51	10.44	+ 0.17	....	80	29	38.5	− 1.2	....
Nov. 3	Sk.	1	50	39.08	+ 0.13	....	80	32	29.9	− 1.4	....
4	E.	1	50	32.86	+ 0.09	....	80	33	3.7	− 1.3	....
6	S.	1	50	20.59	+ 0.10	....	80	34	9.2	− 2.4	....
7	Sk.	1	50	14.58	+ 0.18	....	80	34	43.6	− 0.9	....
12	E.	1	49	44.63	+ 0.02	....	80	37	23.9	− 0.6	....

NEPTUNE—Continued.

Date.	Observer.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.
1874.		h	m	s	s	s	°	′	″	″	″
Nov. 13	F.	1	49	38.85	+ 0.05	....	80	37	56.5	+ 0.9	....
21	F.	1	48	54.49	+ 0.02	....	80	41	51.0	+ 1.0	....
25	F.	1	48.6	.....	....	....	80	43	37.1	+ 0.7	....
28	E.	1	48.3	.....	....	....	80	44	51.8	+ 1.0	....
Dec. 1	Sk.	1	48	5.82	+ 0.19	....	80	46	2.1	+ 1.2	....
2	E.	1	48	1.24	+ 0.02	....	80	46	24.6	+ 1.5	....
4	F.	1	47	52.74	+ 0.05	....	80	47	4.8	− 0.8	....
5	Sk.	1	47	48.50	− 0.06	....	80	47	25.5	− 0.5	....
14	E.	1	47	16.14	+ 0.06	....	80	50	0.8	− 0.9	....
18	E.	1	47	4.65	− 0.04	....	80	50	55.6	+ 1.8	....
19	F.	1	47	1.92	+ 0.01	....	80	51	6.6	+ 1.5	....
21	Sk.	1	46	57.13	+ 0.06	....	80	51	24.5	− 1.0	....
22	E.	1	46	54.88	+ 0.04	....	80	51	36.5	+ 1 9	....
1875.											
Jan. 14	Sk.	1	46	38.35	+ 0.11	....	80	51	43.1	− 0.2	....
15	E.	1	46	39.20	+ 0.12	....	80	51	34.8	+ 0.1	....
Sept. 4	P.	2	5	0.91	+ 0.20	....	79	13	29.0	− 0.9	....
8	P.	2	4	46.20	+ 0.17	....	79	14	59 1	− 1.4	....
14	P.	2	4	21.25	+ 0.17	....	79	17	29.2	− 1.8	....
24	P.	2	3	32.58	+ 0.10	...	79	22	13.3	− 2.4	....
27	F.	2	3	16.54	+ 0.15	....	79	23	46.3	− 1.6	....
Oct. 4	P.	2	2	36.76	+ 0.11	....	79	27	33.3	− 0.7	....
9	P.	2	2	6.79	+ 0.11	....	79	30	18.9	− 2.9	....
25	Sk.	2	0	25.73	− 0.01	....	79	39	35.5	− 1.1	....
27	F.	2	0	13.06	+ 0.15	....	79	40	45.2	− 0.7	....
28	P.	2	0	6.59	+ 0.09	....	79	41	19.4	− 1 1	....
Nov. 2	P.	1	59	34.78	+ 0.14	....	79	44	11.3	− 0.2	....
5	P.	1	59	15.83	+ 0.06	....	79	45	51.3	− 0.7	....
6	Sk.	1	59	9.70	+ 0.17	....	79	46	23.6	− 1.5	....
10	Sk.	1	58	45.02	+ 0.10	....	79	48	35.2	+ 0.3	....
11	E.	1	58	38.99	+ 0.13	....	79	49	6.6	− 0.1	....
12	P.	1	58	33.04	+ 0.20	....	79	49	37.9	− 0.3	....
15	E.	1	58	15.25	+ 0.15	....	79	51	11.8	+ 1.0	....
17	P.	1	58	3.67	+ 0.15	....	79	52	9.5	− 1.3	....
24	F.	1	57	25.07	+ 0.15	....	79	55	28.4	− 0.1	....
Nov. 27	F.	1	57	9.58	+ 0.12	....	79	56	45.2	− 1.4	....
30	Sk.	1	56	54.71	+ 0.01	....	79	57	59.0	− 1.3	....
Dec. 2	F.	1	56	45.38	+ 0.10	....	79	58	46.2	− 0.7	....
10	Sk.	1	56	11.66	+ 0.27	....	80	1	28.3	− 2.2	....
17	E.	1	55	47.35	+ 0.21	....	80	3	22.9	+ 1.1	....
18	F.	1	55	44.40	+ 0.28	....	80	3	35.7	+ 0.6	....
20	P.	1	55	38.58	+ 0.14	....	80	4	0.4	+ 0.6	....
22	F.	1	55	33.37	+ 0.16	....	80	4	21.7	0.0	....
23	Sk.	1	55	30.81	+ 0.03	....	80	4	31.5	− 0.2	....
27	Sk.	1	55	22.53	+ 0.27	....	80	5	4.0	− 0.5	....
1876.											
Sept. 2	F.	2	13	50.77	+ 0.05	....	78	27	27.9	− 1.6	....
28	S.	2	11	57.13	+ 0.14	....	78	38	27.7	− 2.4	....
Oct. 3	P.	2	11	29.08	+ 0.21	....	78	41	4.9	− 1.1	....
11	F.	2	10	41.03	− 0.05	....	78	45	28.0	+ 1.0	....
12	P.	2	10	35.08	+ 0.18	....	78	46	0.0	− 0.5	....
13	F.	2	10	28.69	+ 0.01	....	78	46	32.4	− 1.7	....
17	F.	2	10	3.71	+ 0.20	....	78	48	47.8	− 1.5	....
18	S.	2	9	57.26	+ 0.12	....	78	49	25.1	+ 1.8	....
27	P.	2	8	59.39	+ 0.09	....	78	54	29.3	− 0.6	....
31	S.	2	8	33.77	+ 0.23	....	78	56	44.4	− 0.5	....
Nov. 1	E.	2	8.5	.....	....	....	78	57	17.9	− 0.4	....
5	E.	2	8	1.87	+ 0.23	....	78	59	30.5	− 0.2	....
7	S.	2	7	49.19	+ 0.16	....	79	0	34.9	− 0.8	....
22	F.	2	6.3	.....	....	....	79	8	6.9	− 1.7	....
27	S.	2	5	52.93	+ 0.13	....	79	10	20.0	− 1.0	....
28	P.	2	5	47.82	+ 0.17	....	79	10	46.7	+ 0.5	....
Dec. 5	S.	2	5	14.15	+ 0.17	....	79	13	28.8	+ 0.4	....
7	E.	2	5	5.24	+ 0.08	....	79	14	9.9	− 0.1	....

NEPTUNE—Continued.

Date.	Observer.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.
1876.		h	m	s	s	s	°	′	″	″	″
Dec. 13	S.	2	4	41.24	+ 0.17	....	79	15	59.6	− 1.5	....
15	E.	2	4	33.97	+ 0.09	....	79	16	31.1	− 2.1	....
19	E.	2	4	20.93	+ 0.10	....	79	17	29.1	− 0.9	....
21	S.	2	4	15.14	+ 0.13	....	79	17	55.5	+ 1.0	....
27	E.	2	4	0.58	+ 0.20	....	79	18	50.8	− 1.2	....
1877.											
Oct. 18	P.	2	18	53.36	+ 0.10	....	78	3	38.1	0.0	....
22	F.	2	18	27.87	+ 0.17	....	78	5	48.3	− 2.3	....
23	E.	2	18	21.38	+ 0.12	....	78	6	23.7	− 0.1	....
24	P.	2	18	14.87	+ 0.07	....	78	6	55.6	− 1.5	....
Nov. 2	S.	2	17	16.61	+ 0.17	....	78	11	54.1	− 1.1	....
3	F.	2	17	10.16	+ 0.19	....	78	12	27.9	0.0	....
12	E.	2	16	12.75	+ 0.04	....	78	17	12.6	− 2.0	....
13	F.	2	16	6.61	+ 0.11	....	78	17	44.3	− 1.1	....
16	E.	2	15	48.25	+ 0.14	....	78	19	15.2	− 0.9	....
19	P.	2	15	30.30	+ 0.16	....	78	20	42.9	− 1.4	....
20	E.	2	15	24.49	+ 0.23	....	78	21	11.6	− 1.4	....
Dec. 8	F.	2	13	50.31	+ 0.12	....	78	28	37.9	− 1.2	....
10	E.	2	13	41.69	+ 0.26	....	78	29	17.7	− 1.2	....
11	F.	2	13	37.29	+ 0.10	....	78	29	37.7	− 0.2	....
14	E.	2	13	25.17	+ 0.07	....	78	30	29.9	− 1.9	....
1878.											
Sept. 19	P.	2	30	32.10	+ 0.08	....	77	5	3.7	+ 0.3	....
Nov. 9	F.	2	25	30.30	+ 0.07	....	77	30	39.7	− 2.0	....
12	F.	2	25	11.25	+ 0.21	....	77	32	14.1	− 0.3	....
23	Pr.	2	24	3.75	+ 0.17	....	77	37	35.8	+ 0.1	....
29	S.	2	23	29.68	+ 0.16	....	77	40	12.6	− 1.6	....
1879.											
Sept. 10	P.	2	40	4.34	+ 0.11	....	76	19	8.8	− 2.1	....
27	Pr.	2	38	54.77	+ 0.22	....	76	25	21.5	− 2.5	....
Oct. 13	Pr.	2	37	26.57	+ 0.21	....	76	32	49.1	− 1.0	....
25	Pr.	2	36	11.11	+ 0.17	....	76	38	57.1	− 1.8	....
Nov. 10	Pr.	2	34	26.33	+ 0.16	....	76	47	14.4	− 3.5	....
13	P.	2	34	6.98	+ 0.24	....	76	48	47.3	− 1.4	....
14	Pr.	2	34	0.53	+ 0.22	....	76	49	17.9	− 0.7	....
22	Pr.	2	33	10.37	+ 0.15	....	76	53	8.5	− 1.0	....
25	P.	2	32	52.29	+ 0.10	....	76	54	30.3	− 1.3	....
Dec. 12	Pr.	2	31	21.84	+ 0.20	....	77	1	10.6	− 0.4	....
1880.											
Jan. 10	E.	2	29	53.96	+ 0.20	....	77	6	40.1	− 0.9	....
14	E.	2	29.8	.....	....	....	77	6	44.5	− 0.5	....
21	E.	2	29	48.10	+ 0.14	....	77	6.6	....	....	....
Nov. 23	E.	2	42	2.80	+ 0.26	....	76	11	12.3	− 1.4	....
Dec. 1	R.	2	41	15.26	+ 0.16	....	76	14	39.7	− 0.3	....
6	W.	2	40	47.67	+ 0.08	....	76	16	36.5	− 0.6	....
8	S.	2	40	37.38	+ 0.24	....	76	17	17.9	− 2.9	....
9	R.	2	40	32.15	+ 0.11	....	76	17.7	....	....	....
13	R.	2	40	12.73	+ 0.20	....	76	19	3.9	+ 1.2	....
16	S.	2	39	59.11	+ 0.23	....	76	19	57.8	− 0.4	....
18	W.	2	39	50.33	+ 0.07	....	76	20	31.3	− 1.3	....
22	W.	2	39	34.39	+ 0.09	....	76	21	33.1	− 1.7	....
1881.											
Oct. 22	R.	2	54	40.61	+ 0.23	....	75	14	17.8	− 1.2	....
26	R.	2	54	14.86	+ 0.17	....	75	16	13.9	− 0.7	....
27	W.	2	54	8.31	+ 0.13	....	75	16	44.2	+ 0.4	....
Nov. 15	R.	2	52	2.51	+ 0.25	....	75	25	54.8	− 2.2	....
16	W.	2	51	56.04	+ 0.34	....	75	26	22.7	− 2.5	....
24	W.	2	51	4.53	+ 0.23	....	75	30	3.3	− 0.8	....
25	E.	2	50	58.31	+ 0.25	....	75	30	30.2	− 0.2	....
Dec. 1	R.	2	50	21.95	+ 0.21	....	75	32	59.8	− 2.3	....
2	W.	2	50	16.03	+ 0.14	....	75	33	26.6	+ 0.3	....
5	R.	2	49	59.00	+ 0.24	....	75	34	35.0	− 1.8	....
7	E.	2	49	47.85	+ 0.17	....	75	35	20.4	− 1.4	....
9	R.	2	49	37.08	+ 0.16	....	75	36	3.9	− 1.4	....

NEPTUNE—Continued.

Date.	Observer.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.
1881.		h	m	s	s	s	°	′	″	″	″
Dec. 15	E.	2	49	6.80	+ 0.15	....	75	38	5.8	+ 0.3	....
17	R.	2	48	57.48	+ 0.19	....	75	38	40.5	− 1.4	....
31	E.	2	48	3.78	+ 0.26	....	75	41	59.3	− 0.3	....
1882.											
Jan. 23	E.	2	47	27.32	+ 0.20	....	75	43	18.0	+ 0.3	....
Nov. 15	W.	3	1	15.06	+ 0.24	....	74	75	43.6	− 1.9	....
1883.											
Sept. 28	S.	3	15	17.47	+ 0.26	....	73	47	2.8	− 2.2	....
Nov. 5	P.	3	11	38.24	+ 0.22	....	74	2	29.3	− 1.1	....
12	S.	3	10	51.01	+ 0.25	....	74	5	38.7	− 1.0	....
16	S.	3	10	24.03	+ 0.29	....	74	7	26.6	− 0.6	....
17	P.	3	10	17.26	+ 0.25	....	74	7	53.5	− 0.2	....
30	W.	3	8	52.13	+ 0.29	....	74	13	23.7	− 0.5	....
Dec. 3	P.	3	8	33.30	+ 0.14	....	74	14	34.1	− 1.3	....
5	E.	3	8	21.17	+ 0.17	....	74	15	21.0	− 0.5	....
6	S.	3	8	15.24	+ 0.23	....	74	15	42.2	− 1.8	....
10	S.	3	7	51.79	+ 0.11	....	74	17	10.0	− 0.9	....
11	P.	3	7	46.31	+ 0.28	....	74	17	31.5	− 0.2	....
17	E.	3	7	14.03	+ 0.20	....	74	19	29.3	+ 0.4	....
21	E.	3	6	54.27	+ 0.14	....	74	20	37.3	− 1.3	....
28	W.	3	6.4	.....	....	....	74	22	22.6	− 1.8	....
1884.											
Nov. 11	P.	3	20	9.62	+ 0.09	....	73	28	29.1	− 0.6	....
12	W.	3	20	2.85	+ 0.13	....	73	28	54.5	− 1.1	....
15	P.	3	19	42.44	+ 0.18	....	73	30	12.5	− 0.3	....
20	W.	3	19	8.61	+ 0.29	....	73	32	16.3	− 3.6	....
22	S.	3	18	55.00	+ 0.15	....	73	33	8.1	− 1.7	....
26	S.	3	18	28.42	+ 0.15	....	73	34	44.7	− 3.0	....
Dec. 2	W.	3	17	49.65	+ 0.14	....	73	37	8.3	− 0.9	....
4	S.	3	17.	37.25	+ 0.28	....	73	37	52.6	− 1.8	....
16	S.	3	16	27.26	+ 0.12	....	73	41	59.4	− 0.9	....
19	E.	3	16	11.59	+ 0.15	....	73	42	50.4	− 3.5	....
1885.											
Jan. 13	S.	3	14	37.39	+ 0.19	....	73	47	41.9	− 1.3	....
26	P.	3	14	19.10	+ 0.27	....	73	48	6.0	− 0.3	....
Nov. 16	E.	3	28	57.10	+ 0.23	....	72	54	55.8	− 2.0	....
20	E.	3	28	29.70	+ 0.23	....	72	56	35.3	+ 0.1	....
21	S.	3	28	22.75	+ 0.11	....	72	56	59.8	+ 0.5	....
Dec. 2	E.	3	27	9.37	+ 0.22	....	73	1	14.8	− 0.5	....
3	S.	3	27	2.85	+ 0.17	....	73	1	36.3	− 1.2	....
7	S.	3	26	37.49	+ 0.[illegible]	....	73	3	2.6	− 1.2	....
11	S.	3	26	13.12	+ [illegible]	....	73	4	24.5	− 1.5	....
15	S.	3	25	49.76	+ [illegible]	....	73	5	43.0	− 0.1	....
18	E.	3	25	33.17	+ 0.3[illegible]	....	73	6	36.8	− 0.9	....
26	E.	3	24	52.42	+ 0.16	....	73	8	45.1	− 1.7	....
29	W.	3	24	38.77	+ 0.13	....	73	9	28.3	− 0.1	....
31	E.	3	24	30.35	+ 0.26	....	73	9	52.4	− 1.6	....
1886.											
Jan. 20	S.	3	23	30.91	+ 0.30	....	73	12	23.4	3.0	....
Nov. 18	S.	3	38	7.58	+ 0.10	....	72	21	41.1	− 1.4	....
19	P.	3	38	0.67	+ 0.11	....	72	22	5.8	0.0	....
27	S.	3	37	5.73	+ 0.14	....	72	25	7.3	− 0.9	....
30	W.	3	36.8	....	....	....	72	26	14.8	+ 0.3	....
Dec. 8	W.	3	35	53.06	+ 0.08	....	72	29	3.6	+ 0.1	....
9	E.	3	35	46.71	+ 0.05	....	72	29	24.0	+ 0.3	....
10	S.	3	35	40.52	+ 0.12	....	72	29	41.4	− 2.2	....
16	E.	3	35	4.19	+ 0.04	....	72	31	36.2	− 1.1	....
20	W.	3	34	41.74	+ 0.31	....	72	32	46.8	− 0.3	....
21	E.	3	34	36.08	+ 0.13	....	72	33	3.0	− 0.8	....
1887.											
Jan. 3	S.	3	33	33.54	+ 0.23	....	72	36	5.3	− 1.1	....
Nov. 3	W.	3	49	16.89	+ 0.12	....	71	43	51.1	− 1.2	....
4	E.	3	49	10.49	+ 0.29	....	71	44	12.1	− 1.7	....
5	S.	3	49	3.79	+ 0.20	....	71	44	32.9	− 2.5	....

NEPTUNE—Continued.

Date.	Observer.	Apparent Right Ascension of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.	Geocentric N. P. Distance of Center.			Correction to Am. Eph.	Corr'n to Newcomb's Tables.
1887.		h	m	s	s	s	°	′	″	″	″
Nov. 12	E.	3	48	16.48	+ 0.20	....	71	47	6.0	— 2.2	....
15	W.	3	47	55.80	+ 0.23	....	71	48	13.9	— 0.4	....
16	E.	3	47	48.95	+ 0.30	....	71	48	35.7	— 0.6	....
28	E.	3	46	25.60	+ 0.21	....	71	52	54.7	2.3	....
Dec. 5	E.	3	45	38.26	+ 0.30	....	71	55	20.4	— 1.7	....
8	E.	3	45	18.35	+ 0.20	....	71	56	20.3	— 1.6	....
11	E.	3	44	59.08	+ 0.27	....	71	57	19.2	— 0.5	....
13	P.	3	44	46.36	+ 0.16	....	71	57	56.7	— 0.3	....
16	E.	3	44	28.10	+ 0.36	....	71	58	49.6	— 1.8	....
29	W.	3	43	16.07	+ 0.20	....	72	2	14.8	— 0.4	....
1888.											
Jan. 10	W.	3	42	24.32	+ 0.25	....	72	4	29.3	— 0.1	....
19	W.	3	41	56.66	+ 0.31	....	72	5	28.1	— 2.2	...
20	S.	3	41	54.15	+ 0.23	....	72	5	33.5	— 1.3	....
21	P.	3	41	51.80	+ 0.19	....	72	5	37.1	— 1.7	....
24	P.	3	41	45.76	+ 0.26	....	72	5	48.5	+ 0.3	....
Dec. 6	E.	3	54	54.04	+ 0.31	....	71	25	2.3	— 1.0	....
14	E.	3	54	1.78	+ 0.28	....	71	27	27.0	— 1.6	....
20	E.	3	53	25.03	+ 0.21		71	29	7.6	— 0.5	....
21	W.	3	53	19.29	+ 0.32	....	71	29	22.8	— 0.9	....
1889.											
Jan. 9	S.	3	51	45.32	+ 0.31	....	71	33	19.5	— 0.8	....
12	W.	3	51	33.82	+ 0.12	....	71	33	44.8	— 0.7	....
13	S.	3	51	30.59	+ 0.41	....	71	33	53.2	+ 0.1	....

OBSERVATIONS OF MINOR PLANETS.

1866–1891.

MINOR PLANETS.

CERES ①

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.		h m	h m	h m s	s	° ′ ″	″	
Jan. 31	N.	.. ....	.. ....	8 13 51.26	+ 4.29	58 9 1.7	+ 4.0	B. N. A.
Feb. 1	R.	.. ....	.. ....	8 12 54.39	+ 4.25	58 4 19.1	+ 4.9	
3	T.	.. ....	.. ....	.. ..	....	57 55 25.1	+ 3.1	
6	H.	.. ....	.. ....	8 8 21.87	+ 4.12	57 43 35.0	+ 2.4	
26	H.	.. ....	.. ....	7 55 48.48	+ 3.92	57 9 14.5	+ 1.6	
1868.								
Aug. 13	F.	12 52.3	18 37.7	22 24 0.76	− 2.45	115 35 29.6	+ 3.1	B. N. A.
26	T.	11 50.2	17 35.5	22 12 56.58	− 2.24	116 49 6.5	+ 8.0	
29	T.	11 35.8	17 21.1	22 10 22.50	− 2.63	117 2 27.7	+ 9.1	
1874.								
Dec. 11	F.	.. ....	.. ....	6 49 16.63	+ 8.43	63 22 13.5	− 15.3	B. N. A.
14	E.	.. ....	.. ....	6 46 41.42	+ 8.46	63 5 41.5	− 14.3	
15	F.	.. ....	.. ....	6 45 47.27	+ 8.43	63 0 11.2	− 15.5	
18	E.	.. ....	.. ....	6 42 58.81	+ 8.65	62 43 51.1	− 15.3	
23	[illegible]	.. ....	.. ....	6 38 0.65	+ 8.58	63 17 23.0	16.9	
1875.								
Jan. 14	Sk.	.. ....	.. ....	6 15 43.59	+ 8.49	60 43 36.1	23.6	B. N. A.
1876.								
Mar. 21	P.	.. ....	.. ....	14 54 42.60	+ 3.78	93 43 22.5	+ 38.1	B. N. A.
Apr. 6	P.	.. ....	.. ....	14 46 33.90	+ 4.12	.. ..	....	
10	P.	.. ....	.. ....	14 43 40.44	+ 4.14	92 46 30.3	+ 40.6	
18	P.	.. ....	.. ....	14 37 9.90	+ 4.10	92 26 37.1	+ 40.1	
22	P.	.. ....	.. ....	14 33 39.69	+ 4.15	92 18 29.6	+ 41.1	
25	S.	.. ....	.. ....	14 30 58.66	+ 4.26	92 13 22.4	+ 41.2	
26	P.	.. ....	.. ....	14 30 4.46	+ 4.07	92 11 54.9	+ 40.4	
May 3	S.	.. ....	.. ....	14 23 48.67	+ 4.06	92 4 58.4	+ 40.2	
4	P.	.. ....	.. ....	14 22 55.93	+ 4.07	92 4 30.6	+ 40.7	
13	E.	.. ....	.. ....	14 15 27.80	+ 4.07	92 6 35.6	+ 39.3	
23	S.	.. ....	.. ....	14 8 33.36	+ 3.75	92 22 50.4	+ 35.0	
27	S.	.. ....	.. ....	14 6 20.86	+ 3.94	92 33 32.8	+ 35.4	
29	E.	.. ....	.. ....	14 5 22.35	+ 3.82	92 39 45.1	+ 34.8	
31	S.	.. ....	.. ....	14 4 29.22	+ 3.58	92 46 34.3	+ 37.3	
June 1	P.	.. ....	.. ....	14 4 4.98	+ 3.71	92 50 8.6	+ 36.0	
1877.								
July 6	P.	.. ....	.. ....	21 21 47.01	+ 5.43	116 46 57.2	− 14.0	B. N. A.
12	F.	.. ....	.. ....	21 18 8.50	+ 5.61	117 28 8.8	− 14.8	
14	P.	.. ....	.. ....	21 16 46.12	+ 5.69	117 41 55.8	− 13.6	
30	P.	.. ....	.. ....	21 3 41.40	+ 6.07	119 25 12.8	− 12.1	
1880.								
Mar. 5	E.	.. ....	.. ....	9 48 30.36	+ 9.74	60 18 29.9	+ 34.0	B. N. A.
21	E.	.. ....	.. ....	9 39 46.56	+ 8.93	60 19 6.5	+ 28.6	
25	E.	.. ....	.. ....	9 38 40.53	+ 8.78	60 28 6.0	+ 27.5	
30	E.	.. ....	.. ....	9 37 56.85	+ 8.46	60 43 36.0	+ 26.9	
31	S.	.. ....	.. ....	9 37 53.16	+ 8.28	60 47 14.0	+ 27.0	
Apr. 10	E.	.. ....	.. ....	9 38 50.99	+ 7.81	60 32 13.6	+ 25.8	
20	S.	.. ....	.. ....	9 42 28.82	+ 7.01	60 30 47.3	+ 23.7	
22	E.	.. ....	.. ....	9 43 29.97	+ 6.88	60 43 53.1	+ 24.4	
28	S.	.. ....	.. ....	9 47 5.14	+ 6.60	60 25 30.7	+ 24.2	
1881.								
May 27	R.	.. ....	.. ....	17 12 34.02	+ 6.31	111 12 40.8	+ 31.2	B. N. A.
June 12	R.	.. ....	.. ....	16 57.1	....	111 48 35.4	+ 31.0	
18	E.	.. ....	.. ....	16 51 38.44	+ 6.28	112 1 20.9	+ 33.0	
22	R.	.. ....	.. ....	16 48 8.65	+ 6.17	112 9 38.0	+ 32.2	
24	R.	.. ....	.. ....	16 46 29 19	+ 6.22	112 13 46.4	+ 34.0	
1883.								
Nov. 17	P.	13 25.9	19 13.0	5 13 39.91	....	69 52 3.5	....	B. J. 1885
30	W.	12 22.9	18 10.5	5 1 48.53	+ 0.20	69 21 57.1	− 3.1	
Dec. 3	P.	12 8.1	17 55.7	4 58 46.30	+ 0.37	69 14 59.6	− 2.7	
10	S.	11 33.3	17 20.9	4 51 32.87	+ 0.07	68 58 50.7	− 2.5	

PALLAS ②

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1872.		h m	h m	h m s	s	° ′ ″	″	
June 11	S.	12 11.1	17 52.7	17 34 31.73	— 0.52	64 49 46.2	— 0.1	B. J. 1874
1874.								
Nov. 3	Sk.	.. ....	.. ....	3 0 8.87	— 1.23	115 29 32.9	— 3.4	B. N. A.
7	Sk.	.. ....	.. ....	.. ..	....	116 15 55.4	— 1.5	
12	E.	.. ....	.. ....	2 52 36.27	— 1.55	117 4 9.4	— 3.2	
13	F.	.. ....	.. ....	2 51 46.61	— 1.16	117 12 28.9	— 2.8	
21	F.	.. ....	.. ....	.. ..	....	118 2 45.4	— 3.8	
25	F.	.. ....	.. ....	.. ..	....	118 17 9.0	— 4.7	
Dec. 2	E.	.. ....	.. ....	2 38 4.76	— 1.47	... .	....	
4	F.	.. ....	.. ....	2 37 0.94	— 1.48	118 24 39.3	— 5.1	
14	E.	.. ....	.. ....	2 33 12.38	— 1.36	117 56 20.6	— 5.6	
18	E.	.. ....	.. ....	2 32 26.68	— 1.26	117 35 47.2	— 5.4	
19	F.	.. ....	.. ....	2 32 19.30	— 1.43	117 29 50.5	— 4.0	
21	Sk.	.. ....	.. ....	2 32 10.46	— 1.25	117 17 11.3	— 6.4	
22	E.	.. ....	.. ....	2 32 7.91	— 1.36	117 10 31.6	— 3.8	
1875.								
Jan. 11	E.	.. ....	.. ....	2 37 16.75	— 0.95	114 10 47.8	— 2.4	B. N. A.
14	Sk.	.. ....	.. ....	2 38 58.10	— 1.19	113 38 0.9	— 1.7	
1876.								
Mar. 21	P.	.. ....	.. ....	14 17 53.16	— 1.32	77 6 5.1	+ 2.3	B. N. A.
Apr. 15	E.	.. ....	.. ....	14 1 29.80	— 1.37	69 41 32.6	— 0.3	
19	E.	.. ....	.. ....	13 58 21.14	— 1.25	68 48 15.1	0.0	
20	F.	.. ....	.. ....	.. ..	....	68 35 54.6	— 0.4	
22	P.	.. ....	.. ....	13 56 0.48	— 1.35	68 12 28.2	+ 0.4	
25	S.	.. ....	.. ...	13 53 42.64	— 1.33	67 40 23.9	+ 1.2	
26	P.	.. ....	.. ....	13 52 57.49	— 1.42	67 30 31.6	+ 0.6	
May 3	S.	.. ....	.. ....	13 48 0.34	— 1 19	66 33 7.3	+ 0.7	
4	P.	.. ....	.. ....	13 47 20.95	— 1.26	66 26 33.5	+ 0.6	
13	E.	.. ....	.. ....	13 42 12.40	— 1.23	65 44 58.8	+ 1.6	
23	S.	.. ....	.. ....	13 38 21.93	— 1.47	65 32 28.5	+ 0.9	
27	S.	.. ....	.. ....	13 37 27.14	— 1.13	65 36 11.3	+ 1.9	
29	E.	.. ....	.. ....	13 37 7.93	— 1.04	65 39 41.1	+ 2.0	
31	S.	.. ....	.. ....	13 36 53.96	— 1.19	65 44 12.1	+ 1.7	
June 1	P.	.. ....	.. ....	13 36 49.10	— 1.19	65 46 49.2	+ 1.2	
1877.								
June 23	S.	.. ....	.. ....	19 20 59.41	— 0.54	68 23 6.9	— 1.8	B. N. A.
25	P.	.. ....	.. ....	19 19 27.76	— 0 56	68 23 2.2	0.5	
July 6	P.	.. ....	.. ....	19 10 37.42	— 0.59	68 41 48.6	+ 0.9	
7	E.	.. ....	.. ....	19 9 48.16	— 0.52	68 45 8.3	— 0.4	
8	F.	.. ....	.. ....	19 8 58.94	— 0.42	68 48 46.9	+ 1.0	
12	F.	.. ....	.. ....	19 5 42.58	— 0.38	69 5 57.3	0.0	
30	P.	.. ....	.. ....	18 52 18.09	— 0.53	71 12 18.1	+ 0.9	
1878.								
Sept. 14	S.	.. ....	.. ....	23 3 47.76	— 0.80	91 15 4.7	— 0.3	B. N. A.
Oct. 8	S.	.. ....	.. ....	22 48 23.41	— 0.74	96 27 9.0	+ 0.1	
1880.								
Jan. 15	S.	.. ....	.. ....	6 57 30.44	— 2.59	119 58 26.6	+ 1.9	B. N. A.
Mar. 5	E.	.. ....	.. ....	6 50 55.29	— 2.03	102 28 33.6	+ 3.3	
17	E.	.. ....	. ....	7 0 47.06	— 1.79	97 46 40.8	+ 2.6	
25	E.	.. ....	.. ....	7 9 23.86	— 1.79	94 53 32.4	+ 2.3	
1881.								
May 24	W.	.. ....	.. ....	16 31 46.42	— 0.85	63 58 37.5	— 0.6	B. N. A.
27	R.	.. ....	.. ....	16 29 11.55	— 0.85	63 48 41.0	— 1.9	
1882.								
July 28	R.	12 13.9	17 54.6	20 40 55.91	— 1.10	74 29 50.5	+ 3.9	B. J. 1884
1883.								
Sept. 26	R.	13 5.8	18 52.2	1 28 33.03	— 1.14	101 29 21.0	— 1.1	B. J. 1885
28	S.	12 56.6	18 43.1	1 27 14.44	— 1.36	102 3 14.2	— 1.0	
Oct. 9	W.	12 5.3	17 52.0	1 19 12.27	— 1.29	105 2 25.7	— 1.5	
10	S.	12 0.6	17 47.3	1 18 25.56	— 1.28	105 17 45.5	— 2.2	
26	E.	10 45.3	16 31.7	1 6 2.40	— 1.31	108 48 51.5	— 2.0	
30	E.	10 22.3	16 13.1	1 3 13.56	— 1.13	109 29 29.7	— 1.5	
31	S.	.. ....	16 8.5	1 2 33.19	— 1.24	109 38 47.0	— 2.8	

JUNO ③

Date.	Observer.	Washington Mean Time.		Berlin Mean Time Corrected for Aberration.		Apparent Right Ascension of Center.			Correction to Ephemeris.	Geocentric N. P. Distance of Center.			Correction to Ephemeris.	Ephemeris, Remarks, etc.
1868.		h	m	h	m	h	m	s	s	°	′	″	″	
May 11	N.	12	18.8	18	1.1	15	39	47.49	+ 1.24	92	40	29.9	+ 2.6	
21	N.	11	31.2	17	13.4	15	31	37.75	+ 1.26	92	1	8.1	+ 3.8	B. N. A.
26	A.	11	7.7	16	49.8	15	27	39.80	+ 1.00	91	46	10.3	+ 1.2	
30	E.	10	48.9	16	30.9	15	24	38.07	+ 1.14	91	36	50.1	+ 1.3	
1872.														
Apr. 23	Ha.	12	1.5	17	44.4	14	11	42.21	+ 1.65	90	5	9.2	+ 4.0	B. J. 1874
1873.														
June 20	F.	12	22.5	18	6.5	18	20	25.46	+ 2.36	94	40	36.7	+ 1.9	B. J. 1875
1874.														
Nov. 16	E.	..	....	..	....	2	55	49.96	+ 8.25	95	14	34.3	− 14.5	B. N. A.
21	F.	..	....	..	....	..	..	.....	....	95	37	28.9	− 16.5	
25	F.	..	....	..	....	2	50	30.33	+ 8.03	..	..	....	....	
Dec. 2	E.	..	....	..	....	2	47	30.41	+ 7.83	..	..	....	....	
4	F.	..	....	..	....	2	46	52.63	+ 7.50	95	51	34.8	− 10.2	
5	Sk.	..	....	..	....	2	46	36.25	+ 7.39	95	50	0.7	− 10.7	
14	E.	..	....	..	....	2	45	29.31	+ 7.00	95	20	44.6	− 9.3	
18	E.	..	....	..	....	2	45	47.53	+ 6.81	94	59	47.0	− 8.0	
19	F.	..	....	..	....	2	46	56.49	+ 6.51	94	53	51.4	− 8.4	
21	Sk.	..	....	..	....	2	46	20.72	+ 6.67	94	41	15.1	− 9.3	
1875.														
Jan. 11	E.	..	....	..	....	2	57	35.96	+ 5.70	91	41	45.8	− 7.9	B. N. A.
15	E.	..	....	..	....	3	1	5.69	+ 5.68	91	0	43.7	− 5.0	
1876.														
Mar. 21	P.	..	....	..	....	12	41	1.87	+ 2.92	88	37	14.5	+ 6.3	B. N. A.
Apr. 1	S.	..	....	..	....	12	32	22.53	+ 2.97	87	2	0.3	+ 6.7	
5	S.	..	....	..	....	12	29	18.39	+ 2.96	86	31	10.4	+ 6.8	
6	P.	..	....	..	....	12	28	33.42	+ 3.00	86	23	29.7	+ 6.5	
10	P.	..	....	..	....	12	25	38.78	+ 2.98	85	54	5.3	+ 6.1	
12	F.	..	....	..	....	12	24	15.20	+ 2.90	85	40	14.6	+ 7.6	
15	E.	..	....	..	....	12	22	15.50	+ 2.90	85	20	31.7	+ 5.2	
22	P.	..	....	..	....	12	18	7.70	+ 2.77	84	40	20.5	+ 4.3	
May 3	S.	..	....	..	....	12	13	20.60	+ 2.93	83	54	48.7	+ 5.5	
4	P.	..	....	..	....	12	13	1.33	+ 2.70	83	51	44.9	+ 4.6	
23	S.	..	....	..	....	12	10	47.70	+ 2.32	83	26	29.0	+ 2.3	
1877.														
May 17	F.	..	....	..	....	16	57	0.76	+ 2.48	94	35	57.2	+ 5.4	B. N. A.
28	E.	..	....	..	....	16	48	10.76	+ 2.60	93	59	47.7	+ 2.7	
31	P.	..	....	..	....	16	45	39.14	+ 2.51	93	52	16.4	+ 3.6	
June 1	E.	..	....	..	....	16	44	48.54	+ 2.65	93	50	1.3	+ 4.7	
14	F.	..	....	..	....	16	34	10.06	+ 2.60	93	32	19.2	+ 3.0	
19	S.	..	....	..	....	16	30	8.89	+ 2.69	93	31	38.2	+ 3.7	
22	F.	..	....	..	....	16	27	58.01	+ 2.43	93	32	49.0	+ 2.3	
28	P.	..	....	..	....	16	23	58.99	+ 2.45	93	38	46.1	+ 2.4	
July 7	E.	..	....	..	....	16	19	6.20	+ 2.40	93	56	7.1	+ 4.5	
14	P.	..	....	..	....	16	16	21.06	+ 2.17	94	15	51.1	+ 2.1	
16	F.	..	....	..	....	16	15	45.02	+ 2.40	94	22	26.6	+ 4.5	
1878.														
Sept. 14	S.	..	....	..	....	22	9	10.70	+ 6.32	97	5	59.5	− 12.2	B. N. A.
Oct. 8	S.	..	....	..	....	22	0	26.96	+ 5.74	100	52	39.1	− 7.9	
1880.														
Mar. 1	E.	..	....	..	....	10	17	2.53	+ 5.17	84	37	45.5	+ 9.7	B. N. A.
5	E.	..	....	..	....	10	13	59.30	+ 5.01	83	57	49.4	+ 7.8	
17	E.	..	....	..	....	10	6	18.52	+ 4.81	82	6	39.3	+ 9.1	
21	E.	..	....	..	....	10	4	23.18	+ 4.70	81	33	47.2	+ 8.2	
25	E.	..	....	..	....	10	2	49.87	+ 4.63	81	3	30.4	+ 8.7	
31	S.	..	....	..	....	10	1	12.66	+ 4.40	80	23	13.1	+ 8.6	
Apr. 10	E.	..	....	..	....	10	0	27.47	+ 4.14	79	30	26.6	+ 7.3	
12	S.	..	....	..	....	10	0	35.81	+ 4.06	79	22	2.8	+ 5.9	
14	E.	..	....	..	....	10	0	49.90	+ 4.07	79	14	23.0	+ 5.1	

JUNO—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1880.		h m	h m	h m s	s	° ′ ″	″	
Apr. 20	S.	.. ....	.. ....	10 2 4.69	+ 3.89	78 55 38.7	+ 4.6	
22	E.	.. ....	.. ....	10 2 40.22	+ 3.89	78 50 47.6	+ 6.9	
28	S.	.. ....	.. ....	10 4 56.23	+ 3.81	78 40 1.8	+ 5.3	
1881.								
May 25	E.	.. ....	.. ....	15 7 12.04	+ 3.13	91 1 34.0	+ 5.8	B. N. A.
1882.								
July 6	E.	12 51.9	18 37.8	19 52 18.20	+ 4.12	94 5 17.7	− 1.1	B. J. 1884
10	E.	12 32.8	18 18.9	19 48 59.17	+ 4.00	94 16 7.9	− 1.2	
24	R.	11 25.5	17 11.9	19 36 44.77	+ 4.07	95 13 50.4	+ 1.5	
28	R.	11 6.5	16 52.9	19 33 18.53	+ 4.16	95 35 12.5	− 0.8	
1883.								
Dec. 28	W.	12 29.1	18 21.1	6 58 30.75	+ 10.27	89 35 3.9	− 6.4	B. J. 1885

VESTA ④

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.								
Aug. 15	T.	13 26.9	19 17.7	23 4 25.70	+ 3.54	... .	....	B. J. 1868
17	H.	13 17.5	19 8.3	23 2 54.35	+ 3.67	106 30 8.1	+ 29.3	
20	N.	13 3.3	18 54.1	23 0 29.87	+ 3.61	106 55 21.5	+ 29.1	
30	H.	12 15.1	18 5.9	22 51 41.62	+ 4.00	108 14 56.5	+ 32.2	
Sept. 8	T.	11 31.4	17 22.0	22 43 30.86	+ 4.07	109 14 41.3	+ 29.8	
10	N.	11 21.8	17 12.4	22 41 45.69	+ 4.14	109 25 52.9	+ 30.4	
12	T.	11 12.2	17 2.8	22 40 3.38	+ 4.11	109 36 10.1	+ 29.7	
13	R.	11 7.4	16 57.9	22 39 13.44	+ 4.11	109 40 55.6	+ 26.6	
14	T.	11 2.6	16 53.1	22 38 24.45	....	109 45 32.9	....	
15	R.	10 57.9	16 48.3	22 37 36.31	....	109 49 53.5	....	
1869.								
May 25	F.	11 3.8	16 55.9	15 18 54.83	+ 1.17	... .	....	B. N. A.
June 5	F.	10 11.8	16 3.6	15 10 4.35	....	98 40 31.9	− 6.7	
1873.								
July 11	F.	12 47.2	18 39.1	20 7 59.98	+ 1.38	112 53 34.6	+ 0.3	B. J. 1875
24	E.	11 43.5	17 35.3	19 55 21.89	+ 1.40	114 23 47.6	+ 1.2	
Aug. 5	E.	10 45.5	16 37.1	19 44 37.30	+ 1.17	115 32 9.0	0.0	
7	F.	10 34.3	16 25.7	19 43 5.58	+ 1.32	115 41 37.6	+ 1.8	
9	E.	10 27.0	16 18.4	19 41 39.63	+ 1.27	115 50 29.6	− 0.1	
1874.								
Nov. 21	F.	.. ....	.. ....	4 30 19.11	+ 0.33	75 25 39.6	− 1.4	B. N. A.
25	F.	.. ....	.. ....	4 26 2.49	+ 0.22	75 28 2.2	− 0.9	
Dec. 4	F.	.. ....	.. ....	4 16 18.84	+ 0.28	75 30 15.2	− 0.8	
5	Sk.	.. ....	.. ....	4 15 15.30	+ 0.36	75 30 10.3	− 1.8	
14	E.	.. ....	.. ....	4 6 15.70	+ 0.38	75 26 15.5	− 2.3	
18	E.	.. ....	.. ....	4 2 43.01	+ 0.46	75 22 26.9	− 0.1	
19	F.	.. ....	.. ....	4 1 52.90	+ 0.23	75 21 15.6	− 0.7	
22	E.	.. ....	.. ....	3 59 31.80	+ 0.34	75 17 14.2	+ 0.6	
1875.								
Jan. 11	E.	.. ....	.. ....	3 50 9.98	+ 0.30	74 30 5.7	− 1.5	B. N. A.
14	Sk.	.. ....	.. ....	3 49 47.29	+ 0.25	74 20 6.8	− 2.3	
1876.								
Mar. 21	P.	.. ....	.. ....	12 57 59.67	+ 0.86	82 33 38.1	+ 5.7	
Apr. 1	S.	.. ....	.. ....	12 48 13.53	+ 0.95	81 19 25.8	+ 5.9	
5	S.	.. ....	.. ....	12 44 33.55	+ 0.86	80 57 14.6	+ 3.9	
6	P.	.. ....	.. ....	12 43 39.17	+ 0.95	80 52 14.0	+ 5.1	
8	F.	.. ....	.. ....	12 41 51.19	+ 0.77	80 42 50.7	+ 5.5	
10	P.	.. ....	.. ....	12 40 5.53	+ 0.89	80 34 22.3	+ 6.2	
12	F.	.. ....	.. ....	12 38 22.26	+ 0.86	.. ..	...	
15	E.	.. ....	.. ....	.. ..	....	80 17 23.4	+ 5.8	
19	E.	.. ....	.. ....	12 32 48.97	+ 0.86	80 8 23.8	+ 5.0	
20	F.	.. ....	.. ....	12 32 5.72	+ 0.81	80 6 47.9	+ 4.3	
25	S.	.. ....	.. ....	12 28 49.71	+ 0.79	80 2 55.9	+ 7.2	
26	P.	.. ....	.. ....	12 28 14.79	+ 0.73	80 2 56.3	+ 6.4	

VESTA—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1876.		h m	h m	h m s	s	° ′ ″	″	
May 3	S.	.. ....	.. ....	12 24 55.71	+ 0.88	80 10 23.3	+ 5.3	
23	S.	.. ....	.. ....	12 23 8.56	+ 0.70	81 34 27.1	+ 3.6	
29	E.	.. ....	.. ....	12 25 48.97	+ 0.76	82 14 48.9	+ 4.7	
June 1	P.	.. ....	.. ....	12 26 0.44	+ 0.69	82 37 8.0	+ 5.5	
2	E.	.. ....	.. ....	12 26 27.22	+ 0.59	82 44 52.6	+ 6.7	
1877.								
Oct. 15	E.	.. ....	.. ....	23 28 5.21	+ 0.96	105 18 31.9	- 6.7	B. N. A.
1880.								
May 27	P.	.. ....	.. ....	16 53 42.81	+ 1.50	105 14 43.7	+ 5.5	B. N. A.
June 4	P.	.. ....	.. ....	16 45 37.62	+ 1.45	105 30 4.4	+ 5.9	
1881.								
Oct. 22	R.	.. ....	.. ....	2 44 34.33	+ 0.72	85 21 34.0	— 4.8	B. N. A.
26	R.	.. ....	.. ... .	2 40 40.88	+ 0.69	85 37 51.7	— 4.6	
Nov. 15	R.	.. ....	.. ....	2 21 16.83	+ 0.67	86 32 22.2	— 4.5	

ASTRÆA ⑤

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1868.								
June 27	T.	11 7.3	16 53.8	17 33 26.80	— 2.03	106 44 46.9	— 4.7	
29	N.	10 57.7	16 44.2	17 31 41.53	— 2.03	106 47 9.5	— 2.8	B. N. A.
July 1	T.	10 48.1	16 34.5	17 29 59.50	— 2.07	106 49 39.2	— 3.6	
1872.								
June 11	S.	11 18.9	17 6.2	16 42 9.17	— 7.15	104 29 23.6	— 13.8	B. J. 1874
1874.								
Nov. 21	F.	.. ....	.. ....	5 3 45.09	— 10.22	... .	....	B. N. A.
Dec. 14	E.	.. ....	.. ....	.. ..	.....	76 16 49.0	+ 25.2	
18	E.	.. ....	.. ....	4 37 44.50	— 10.23	76 15 39.1	+ 25.8	
22	E.	.. ...	.. ....	4 34 14.33	— 10.29	76 12 38.4	+ 26.6	
1875.								
Jan. 11	E.	.. ....	.. ....	4 22 54.32	— 9.14	75 29 34.1	+ 37.2	B. N. A.
1876.								
Apr. 26	P.	.. ....	.. ....	16 11 7 62	.....	102 32 37.0	....	No Ephemeris
May 4	P.	.. ....	.. ....	16 4 49.84	.....	102 5 2.8	....	
23	S.	.. ....	.. ....	15 47 22.24	.....	101 11 4.9	....	
27	S.	.. ....	.. ....	15 43 44.62	.....	101 3 22.4	....	
29	E.	.. ....	.. ....	15 41 59.67	.....	101 0 11.2	....	
1880.								
May 3	P.	11 57.9	17 47.5	14 47 49.28	— 6.37	96 52 56.2	— 28.3	B. N. A.
20	E.	10 37.2	16 26.2	14 33 46.94	— 5.85	96 0 56.1	— 28.7	
1881.								
July 18	R.	13 19.2	19 3.7	21 8 1.26	+ 2.34	104 42 51.7	— 6.8	B. N. A.
Aug. 3	R.	12 2.8	17 47.6	20 54 29.53	+ 2.57			
						106 1 30.9	— 3.5	
11	R.	11 24.4	17 9.1	20 47 30.90	+ 2.52	106 41 20.1	— 5.3	
15	R.	11 5.4	16 50.0	20 44 9.73	+ 2.47	107 0 28.6	— 6 4	
1882.								
Nov. 8	W.	11 3.4	16 52.2	2 16 20.11	+ 7.66	85 14 58.9	— 31.6	B. J. 1884
15	W.	10 30.0	16 18.7	2 10 22.93	+ 7.37	85 41 58.2	— 34.2	

HEBE ⑥

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.								
June 11	N.	13 12.4	19 2.0	18 33 35.77	+ 0.21	95 1 4.6	+ 16.7	B. J. 1868
13	H.	13 2.8	18 52.4	18 31 54.58	+ 0.18	95 4 35.5	+ 16.8	
19	R.	12 33.7	18 23.5	18 26 28.48	+ 0.22	95 19 56.7	+ 12.9	
21	N.	12 23.9	18 13.8	18 24 33.98	+ 0.26	95 26 46.9	+ 15.1	
July 6	R.	11 9.9	17 0.0	.. ..	....	96 43 9.5	+ 12.9	
11	T.	10 45.6	16 35.7	18 5 4.05	+ 0.23	97 17 40.2	+ 14.4	
12	R.	10 40.6	16 30.7	18 4 9.99	+ 0.20	97 25 2.0	+ 15.0	
1869.								
Apr. 16	F.	11 54.3	17 39.9	13 35 35.40	+ 2.38	78 37 52.2	-- 3.4	B. J. 1871

HEBE—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1870.		h m	h m	h m s	s	° ′ ″	″	
July 23	F.	12 33.9	18 26.1	20 40 52.97	+ 2.25	101 44 22.3	+ 22.2	B. J. 1872
Aug. 3	F.	11 41.2	17 33.6	20 31 22.74	+ 2.34	103 58 22.1	+ 23.8	
1876.								
Feb. 12	F.	13 15.0	19 2.1	10 45 36.59	+ 3.69	76 2 13.6	— 8.9	B. J. 1878
16	F.	12 56.0	18 43.2	.. ..	....	75 20 33.4	— 9.9	
17	S.	12 51.2	18 38.4	10 41 22.84	+ 3.88	75 10 2.0	— 8.1	
18	P.	12 46.3	18 33.5	10 40 30.21	+ 3.71	74 59 38.5	— 8.9	
19	E.	12 41.5	18 28.7	10 39 37.57	+ 3.95	74 49 19.1	— 8.3	
Mar. 4	S.	11 34.1	17 21.0	10 27 9.89	+ 3.99	72 34 8.7	— 11.4	
5	P.	11 29.3	17 16.2	10 26 18.54	+ 3.85	72 25 32.2	— 9.1	
6	E.	11 24.5	17 11.3	10 25 27.93	+ 3.84	72 17 3.1	— 9.6	
9	P.	11 10.3	16 57.0	10 22 59.82	+ 3.80	71 52 31.4	— 10.6	
1877.								
May 2	S.	13 33.9	19 20.5	16 19 1.34	+ 5.80	88 39 0.4	+ 24.1	B. J. 1879
17	F.	12 22.2	18 9.3	16 6 14.79	+ 5.78	87 34 41.2	+ 26.2	
18	S.	12 17.4	18 4.5	16 5 18.87	+ 5.87	87 31 45.0	+ 24.4	
22	S.	11 57.8	17 45.0	16 1 32.48	+ 5.86	87 22 6.4	+ 22.5	
24	E.	11 48.1	17 35.3	15 59 38.71	+ 5.86	87 18 36.7	+ 26.5	
28	E.	11 28.6	17 15.8	15 55 52.41	+ 5.96	87 14 2.8	+ 25.5	
June 1	E.	11 9.3	16 56.4	15 52 10.35	+ 5.81	87 13 0.3	+ 25.1	
1880.								
Mar. 25	E.	11 29.4	17 15.3	11 45 53.95	+ 6.09	73 38 37.0	+ 3.2	B. J. 1882
1881.								
May 27	R.	13 20.5	19 8.8	17 44 34.14	+ 9.06	92 43 29.8	+ 33.9	B. J. 1883
June 12	R.	12 3.3	17 52.1	17 29 54.00	+ 9.26	92 44 45.1	+ 32.6	
22	E.	11 14.1	17 3.1	17 20 1.38	+ 9.19	93 11 51.1	+ 35.6	
24	R.	11 4.3	16 53.2	17 18 6.04	+ 9.10	93 19 41.5	+ 34.2	
1885.								
July 30	W.	10 30.4	16 21.6	19 6 5.23	+ 0.52	102 15 20.2	+ 0.6	MS. Eph. by Luther
31	E.	10 25.7	16 16.9	19 5 17.49	+ 0.62	102 25 50.8	+ 2.1	

IRIS ⑦

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.								
Nov. 26	T.	12 28.5	18 22.9	4 52 6.88	+ 0.12	65 23 28.4	— 0.5	M. N. R. A. S., vol. 26. p. 218.
30	H.	12 8.8	18 3.2	4 48 8.16	— 0.01	65 49 32.4	— 1.1	
Dec. 4	R.	11 49.1	17 43.5	4 44 6.55	+ 0.01	66 16 34.8	+ 2.3	
8	T.	11 29.4	17 23.8	4 40 10.08	+ 0.07	66 43 56.5	0.0	
1876.								
May 23	S.	12 44.6	18 31.2	16 53 16.97	+ 2.68	113 55 26.0	— 11.2	B. J. 1878
27	S.	12 24.8	18 11.5	16 49 13.04	+ 2.67	113 42 46.3	— 11.0	
29	E.	12 14.8	18 1.6	16 47 8.43	+ 2.67	113 36 6.6	— 10.8	
31	S.	12 5.9	17 52.7	16 45 2.78	+ 2.69	113 29 14.0	— 11.4	
June 1	P.	11 58.9	17 45.7	16 43 59.63	+ 2.51	113 25 44.0	— 11.5	
1877.								
Dec. 3	P.	10 24.7	16 19.0	3 16 55.92	+ 5.23	68 22 5.7	— 12.9	B. J. 1879
11	F.	9 49.6	15 43.6	3 13 20.97	+ 5.06	69 22 30.7	— 12.2	
14	E.	9 37.1	15 30.9	3 22 35.57	+ 4.97	69 42 31.2	— 13.1	
1879.								
Mar. 25	S.	12 56.8	18 43.0	13 10 2.21	+ 7.42	105 28 59.3	+ 1.4	B. J. 1881
31	Pr.	12 27.8	18 14.1	13 4 36.63	+ 7.36	104 56 22.6	+ 0.7	
Apr. 1	F.	12 23.0	18 9.3	13 3 41.43	+ 7.61	104 50 31.5	+ 1.7	
2	P.	12 18.1	18 4.4	13 2 45.57	+ 7.39	104 44 32.3	+ 1.0	
8	Pr.	11 48.9	17 35.2	12 57 11.17	+ 7.44	104 6 42.5	+ 2.0	
22	S.	10 41.7	16 27.7	12 45 1.19	+ 7.34	102 31 34.7	+ 4.9	
24	Pr.	10 32.4	16 18.3	12 43 28.90	+ 7.34	102 18 0.5	+ 4.0	
1882.								
Feb. 2	R.	11 17.9	17 9.3	8 10 56.74	+ 7.05	77 20 29.2	+ 10.7	B. J. 1884
10	R.	10 39.4	16 30.4	8 3 52.24	+ 6.93	77 1 28.4	+ 12.1	
1883.								
Apr. 27	R.	12 19.1	18 4.8	14 42 30.76	+ 2.79	111 6 48.7	+ 8.9	B. J. 1885
May 2	W.	11 54.6	17 40.4	14 37 40.35	+ 2.82	110 39 46.3	+ 7.3	
3	E.	11 49.8	17 35.6	.. ..	....	110 34 9.2	+ 7.9	

IRIS—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1883.		h m	h m	h m s	s	° ′ ″	″	
May 16	S.	10 46.5	16 32.1	14 24 37.67	+ 2.86	109 17 22.2	+ 7.1	
18	W.	10 37.0	16 22.6	14 22 55.96	+ 2.90	109 5 27.5	+ 8.8	
19	E.	10 32.3	16 17.9	14 22 6.43	+ 2.89	108 59 30.4	+ 8.0	
1884.								
Aug. 19	P.	11 39.0	17 31.3	21 34 42.76	+ 5.90	95 25 35.9	— 35.6	B. J. 1886
27	P.	10 59.9	16 52.3	21 27 2.92	+ 5.84	94 55 31.8	— 34.3	
1888.								
Oct. 29	S.	11 42.7	17 37.5	2 18 24.60	+ 9.94	67 48 1.0	— 37.7	B. J. 1890
30	P.	11 37.9	17 32.7	2 17 36.22	+ 10.05	.. ..	....	
31	E.	11 33.2	17 28.0	2 16 47.84	+ 10.00	68 4 30.9	— 37.8	
Nov. 1	S.	11 28.4	17 23.2	2 15 59.78	+ 9.98	68 13 0.0	— 37.3	
10	W.	10 46.4	16 41.1	2 9 18.74	+ 9.75	69 33 30.8	— 39.9	
12	W.	10 37.1	16 31.7	.. ..	....	69 51 48.3	— 38.5	

FLORA ⑧

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.		h m	h m	h m s	s	° ′ ″	″	
July 5	N.	13 1.0	18 52.8	19 56 55.67	+ 3.68	110 52 37.1	+ 1.0	B. J. 1868
7	H.	12 51.2	18 43.0	19 54 59.54	+ 3.58	111 4 42.3	+ 1.0	
11	T.	12 31.4	18 23.3	19 50 55.46	+ 3.75	111 29 19.6	+ 1.0	
12	R.	12 26.4	18 18.4	19 49 52.47	+ 3.90	111 35 33.4	+ 2.3	
14	T.	12 16.4	18 8.4	19 47 44.12	+ 3.65	111 47 56.5	— 0.8	
26	N.	11 16.2	17 8.3	19 34 42.97	+ 3.76	113 0 22.5	+ 3.6	
1869.								
May 25	F.	13 10.4	19 0.0	17 23 53.34	+ 4.88	117 22 32.3	+ 10.8	B. J. 1871
1872.								
May 4	F.	12 20.3	18 9.4	15 13 57.04	+ 5.94	98 57 10.0	+ 35.4	B. J. 1874
1873.								
Nov. 5	E.	11 23.4	17 17.9	2 25 16.15	+ 8.21	88 1 13.4	+ 44.0	B. J. 1875
13	E.	10 44.9	16 39.2	2 18 10.17	+ 7.88	88 4 22.7	+ 43.9	
15	Hn.	10 35.5	16 29.7	2 16 35.11	+ 7.73	88 2 32.9	+ 44.2	
18	F.	10 21.5	16 15.6	2 14 23.98	+ 7.64	87 57 50.7	+ 41.6	
1875.								
Apr. 5	E.	12 33.2	18 22.2	13 29 39.22	+ 6.48	88 57 32.0	+ 38.1	B. J. 1877
7	F.	12 22.5	18 11.5	13 27 41.79	+ 6.76	88 44 55.0	+ 41.8	
1876.								
Aug. 26	F.	11 55.4	17 48.9	22 18 35.06	+ 12.09	.. ..	....	B. J. 1878
28	E.	11 45.8	17 39.3	22 16 43.94	+ 12.17	109 14 57.1	+ 46.2	
Sept. 4	S.	11 12.0	17 5.5	22 10 24.83	+ 12.05	110 7 59.0	+ 45.8	
1879.								
June 20	F.	13 22.5	19 13.5	19 18 46.33	+ 10.63	110 20 52.6	+ 2.9	B. J. 1881
23	Pr.	13 7.8	18 58.9	19 16 0.76	+ 10.78	110 33 51.0	+ 3.2	
July 17	Pr.	11 7.7	16 59.2	18 50 5.21	+ 11.35	112 26 2.0	+ 7.1	
18	F.	11 2.7	16 54.2	.. ..	....	112 30 32.5	+ 8.9	
1882.								
May 25	R.	12 30.1	18 19.8	16 44 55.62	+ 9.67	105 39 49.6	+ 35.3	B. J. 1884
29	R.	12 10.1	17 59.9	16 40 34.18	+ 9.58	105 37 11.6	+ 36.3	
June 2	R.	11 49.9	17 39.7	16 36 8.45	+ 9.62	105 35 18.1	+ 38.2	
1883.								
Dec. 3	P.	13 5.5	18 59.2	5 56 21.62	+ 12.75	72 24 58.5	— 30.8	B. J. 1885
1885.								
Apr. 20	P.	12 57.3	18 46.1	14 55 10.79	+ 9.31	97 9 47.3	+ 50.9	B. J. 1887
21	W.	12 52.2	18 41.1	14 54.2	....	97 5 6.2	+ 51.7	
22	E.	12 47.5	18 36.4	14 53 15.38	+ 9.41	97 0 26.6	+ 52.0	
May 4	S.	11 48.2	17 37.2	14 41 4.30	+ 9.17	96 9 1.5	+ 53.6	
5	E.	11 43.2	17 32.2	14 40 2.93	+ 9.43	96 5 15.3	+ 52.4	
7	W.	11 33.3	17 22.3	14 37 59.90	+ 8.97	95 58 5.3	+ 53.1	
8	E.	11 28.3	17 17.3	14 36 59.56	+ 9.41	95 54 39.4	+ 52.5	
11	W.	11 13.6	17 2.5	14 33 59.49	+ 8.95	95 45 7.9	+ 52.5	
14	P.	10 58.9	16 47.7	14 31 5.37	+ 8.96	95 36 49.0	+ 53.0	
15	W.	10 53.9	16 42.7	14 30 8.77	+ 8.88	95 34 18.2	+ 51.9	
16	E.	10 49.1	16 37.9	14 29 13.15	+ 8.91	95 31 56.7	+ 51.3	
18	P.	10 39.4	16 28.1	14 27 24.54	+ 8.77	95 27 41.0	+ 49.9	

METIS ⑨

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.		h m	h m	h m s	s	° ′ ″	″	
Mar. 5	H.	13 11.0	19 1.0	12 6 0.96	+ 0.19	80 40 46.4	+ 1.4	B. J. 1868
7	T.	13 1.3	18 51.3	12 4 12.46	+ 0.20	80 28 34.7	+ 0.5	
8	N.	12 56.5	18 46.5	12 3 17.05	+ 0.19	80 22 31.7	− 1.1	
10	T.	12 46.7	18 36.7	12 1 24.39	+ 0.09	80 10 43.4	+ 2.2	
13	R.	12 32.1	18 22.1	11 58 32.14	+ 0.23	79 53 30.5	+ 1.3	
14	N.	12 27.2	18 17.2	11 57 34.00	+ 0.18	79 48 59.1	+ 2.5	
17	T.	12 12.5	18 2.5	11 54 39.20	+ 0.38	79 31 58.9	− 0.8	
22	R.	11 48.0	17 37.9	11 49 49.53	+ 0.16	79 8 10.8	+ 1.5	
26	N.	11 28.5	17 18.3	11 46 5.51	+ 0.24	78 52 1.6	+ 2.1	
27	R.	11 23.9	17 13.7	11 45 11.15	+ 0.28	78 48 23.2	− 0.4	
30	N.	11 9.9	16 59.5	11 42 32.85	+ 0.21	78 38 45.1	+ 1.6	
1867.								
July 10	T.	11 21.6	17 10.0	18 36 3.76	+ 0.31	118 12 27.8	− 0.9	B. J. 1869
11	N.	11 16.8	17 5.2	18 35 0.45	+ 0.44	118 14 39.9	+ 1.1	
1874.								
June 1	E.	11 13.8	17 28.5	15 55 38.88	− 0.29	109 47 59.3	− 0.7	B. J. 1876
1875.								
Sept. 3	F.	13 26.2	19 17.0	0 18 6.29	− 2.51	99 19 34.3	+ 16.9	B. J. 1877
4	P.	13 21.6	19 12.4	0 17 23.51	− 2.41	98 25 25.3	+ 16.8	
7	F.	13 7.4	18 58.3	0 15 6.98	− 2.68	98 43 6.8	+ 17.1	
20	P.	12 4.9	17 56.1	0 3 38.65	− 2.78	99 56 36.4	+ 16.9	
27	F.	11 30.8	17 22.0	23 56 59.46	− 2.52	100 29 25.7	+ 15.3	
Oct. 2	E.	11 6.6	16 57.8	23 52 21.42	− 2.71	100 47 59.4	+ 17.0	
5	SK.	10 52.0	16 43.1	23 49 42.70	− 2.59	100 56 43.9	+ 15.6	
9	F.	10 33.1	16 24.1	23 46 24.34	− 2.60	101 5 22.9	+ 12.8	
1879.								
Oct. 29	Pr.	12 58.2	18 50.4	3 30 55.26	− 6.99	75 2 18.6	+ 34.1	B. J. 188
Nov. 10	Pr.	11 59.1	17 51.6	3 19 0.84	− 7.26	75 9 17.2	+ 36.6	
14	Pr.	11 39.1	17 31.6	3 14 44.42	− 7.19	75 11 24.3	+ 37.3	
22	Pr.	10 59.4	16 51.8	3 6 23.30	− 6.99	75 13 40.0	+ 35.8	
26	Pr.	10 39.7	16 32.0	3 2 31.20	− 6.84	75 13 20.1	+ 36.8	
1881.								
Apr. 22	W.	11 27.0	17 15.1	13 32 32.18	− 1.21	93 7 13.5	− 8.6	B. J. 1883
23	E.	11 22.2	17 10.9	13 31 36.20	− 1.04	93 4 3.9	− 8.2	
29	R.	10 53.2	16 41.7	13 26 14.15	− 0.90	92 47 34.9	− 7.4	
30	W.	10 48.5	16 36.9	13 25.4	....	92 45 16.2	− 7.8	
1882.								
July 28	R.	12 24.0	18 13.2	20 51 0.09	− 3.61	115 57 50.6	+ 10.0	B. J. 1884

HYGEIA ⑩

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.								
Apr. 9	N.	12 28.7	18 15.1	13 41 31.26	− 0.06	106 42 28.0	+ 1.1	B. J. 1868
12	R.	12 14.6	18 1.0	13 39 14.62	− 0.16	106 30 24.0	+ 2.5	
19	N.	11 41.6	17 28.1	13 33 51.69	+ 0.03	105 59 20.8	+ 2.1	
25	T.	11 13.4	16 59.9	13 29 21.53	+ 0.05	105 30 40.7	+ 1.9	
26	R.	11 8.8	16 55.3	13 28 37.73	− 0.19	105 25 48.0	+ 1.4	
27	H.	11 4.2	16 50.6	13 27 54.74	− 0.18	105 20 57.9	+ 4.1	
May 2	T.	10 41.2	16 27.5	13 24 29.60	− 0.10	104 56 32.4	+ 1.1	
3	R.	10 36.6	16 22.9	13 23 50.80	− 0.12	104 51 47.5	+ 6.1	
4	H.	10 32.0	16 18.3	13 23 13.12	....	104 46 39.3	.....	
1874.								
Nov. 7	Sk.	11 46.7	17 27.8	.. ..	.....	68 30 59.9	− 124.5	B. J. 1876
12	E.	11 22.8	17 3.9	2 51 17.23	− 11.17	68 50 31.4	− 127.0	
13	F.	11 18.0	16 59.1	2 50 29.75	− 10.90	68 54 35.5	− 124.4	
16	E.	11 1.9	16 42.9	2 48 8.39	− 11.17	69 6 46.6	− 125.2	
21	F.	10 40.6	16 21.5	.. ..	.....	69 27 19.3	− 127.8	
27	F.	10 12.9	15 53.5	.. ..	.....	69 51 52.0	127.1	
1875.								
Dec. 20	P.	13 44.3	19 26.1	7 41 58.83	− 10.16	68 41 2.7	− 179.0	B. J. 1877

HYGEIA—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
		h m	h m	h m s	s	° ′ ″	″	
1876.								
Jan. 25	P.	10 52.9	16 35.0	7 12 7.26	− 11.81	68 10 33.6	− 165.9	B. J. 1878
26	E.	10 48.1	16 30.2	7 11 20.41	− 11.78	68 10 1.8	− 164.7	
1879.								
Sept. 17	S.	12 57.1	18 39.1	0 44 11.37	− 0.45	79 29 15.7	+ 4.1	B. J. 1881
24	F.	12 24.7	18 6.8	0 39 16.70	− 0.45	79 56 7.5	+ 3.0	
25	S.	12 20.0	18 2.1	0 38 33.20	− 0.44	80 0 18.7	+ 3.4	
26	P.	12 15.3	17 57.5	0 37 49.21	− 0.69	80 4 32.8	+ 2.4	
27	Pr.	12 10.6	17 52.8	0 37 5.40	− 0.22	80 8 50.9	+ 0.2	
30	P.	11 56.4	17 38.6	0 34 52.83	− 0.55	80 22 13.2	+ 3.0	
Oct. 1	Pr.	11 52.0	17 34.2	0 34 8.58	− 0.50	80 26 46.4	+ 2.6	
2	F.	11 47.3	17 29.5	0 33 24.32	− 0.47	80 31 26.7	+ 6.4	
7	S.	11 23.9	17 6.0	0 29 44.46	− 0.52	80 55 3.8	+ 6.0	
13	Pr.	10 56.2	16 38.2	0 25 29.36	− 0.87	81 24 4.5	+ 5.9	
15	S.	10 46.9	16 28.8	0 24 8.37	− 0.60	81 33 41.0	+ 2.8	
1880.								
Dec. 6	W.	11 37.0	17 18.1	4 42 16.86	− 9.20	64 52 41.9	+ 28.8	B. J. 1882
9	R.	11 22.5	17 3.5	4 39 41.37	− 9.31	64 59 49.6	+ 32.6	
13	R.	11 3.2	16 44.2	4 36 18.78	− 9.48	65 9 40.5	+ 34.7	
18	W.	10 39.8	16 20.6	4 32 17.22	− 9.78	65 22 22.9	+ 36.9	
1883.								
May 2	W.	12 51.7	18 38.6	15 34 54.69	− 9.60	114 11 16.3	− 23.1	B. J. 1885
3	E.	12 47.1	18 34.1	15 34 9.28	− 9.57	114 8 26.2	− 25.3	
9	R.	12 18.7	18 5.8	15 29 24.98	− 9.33	113 49 41.5	− 26.1	
16	S.	11 45.5	17 32.7	15 23 41.95	− 9.23	113 24 12.9	− 28.4	
24	S.	11 7.7	16 54.8	15 17 20.48	− 9.31	112 51 58.0	32.1	
25	R.	11 3.0	16 50.1	15 16 35.18	− 9.09	112 47 48.9	− 32.2	
June 1	S.	10 30.5	16 17.4	15 11 37.59	− 8.84	112 18 38.0	− 34.5	
PARTHENOPE ⑪								
1866.								
Aug. 10	H.	13 11.6	19 3.4	22 29 26.71	− 0.46	102 51 0.5	+ 15.4	A. N. No. 1577
15	T.	12 48.2	18 40.0	22 25 41.57	− 0.35	103 28 14.3	+ 15.9	
16	R.	12 43.5	18 35.3	22 24 53.97	− 0.47	103 35 47.2	+ 17.0	
17	H.	12 38.7	18 30.6	22 24 5.85	− 0.47	103 43 16.4	+ 14.3	
20	N.	12 24.4	18 16.3	22 21 38.62	− 0.18	104 5 50.2	+ 14.6	
23	R.	12 10.1	18 1.9	22 19 7.95	− 0.21	104 28 6.4	+ 13.8	
30	H.	11 36.7	17 28.5	22 13 15.66	− 0.53	105 17 40.3	+ 14.5	
1874.								
Oct. 15	E.	11 51.0	17 41.7	1 29 6.86	+ 4.66	89 5 53.9	− 20.7	B. J. 1876
16	E.	11 47.1	17 37.8	1 29 12.64	+ 4.65	89 11 29.5	− 19.1	
19	E.	11 31.6	17 22.2	1 25 31.43	+ 4.40	89 27 26.3	− 18.3	
20	E.	11 26.8	17 17.4	1 24 38.35	+ 4.39	89 32 29.3	− 17.7	
22	Sk.	11 17.2	17 7.8	1 22 53.87	+ 4.53	89 42 5.4	− 19.9	
1876.								
Jan. 20	S.	13 23.0	19 10.4	9 22 52.28	+ 4.27	73 46 35.1	+ 3.4	B. J. 1878
21	P.	13 18.1	19 5.5	9 22 0.81	+ 4.24	73 40 49.4	+ 3.4	
25	P.	12 58.9	18 46.4	9 18 26.39	+ 4.36	73 17 16.1	+ 2.0	
31	F.	12 29.6	18 17.2	9 12 45.45	+ 4.41	72 41 17.2	+ 3.8	
Feb. 2	P.	12 19.8	18 7.4	9 10 48.70	+ 4.26	72 29 17.1	+ 2.4	
4	F.	12 10.0	17 57.6	9 8 51.85	+ 4.53	72 17 24.3	+ 2.5	
12	F.	11 30.9	17 18.4	9 1 9.18	+ 4.60	71 31 47.0	+ 1.6	
16	F.	11 11.5	16 58.9	8 57 28.35	+ 4.25	71 10 45.9	+ 5.3	
17	S.	11 6.7	16 54.1	8 56 35.18	+ 4.36	71 5 38.8	+ 0.7	
18	P.	11 1.8	16 49.2	8 55 42.62	+ 4.13	71 0 43.2	+ 1.7	

PARTHENOPE—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1877.		h m	h m	h m s	s	° ′ ″	″	
May 15	P.	12 57.3	18 47.7	16 33 30.54	+ 1.46	104 51 23.2	+ 7.7	B. J. 1879
17	F.	12 47.8	18 38.0	16 31 44.24	+ 1.43	104 47 42.7	+ 8.8	
18	S.	12 42.7	18 32.0	16 30 49.92	+ 1.53	104 45 55.2	+ 8.7	
24	E.	12 13.6	18 4.2	16 25 9.86	+ 1.38	104 36 7.1	+ 8.7	
28	E.	11 53.9	17 44.5	16 21 15.59	+ 1.51	104 30 39.7	+ 8.5	
June 1	E.	11 34.3	17 25.0	16 17 21.18	+ 1.38	104 26 16.1	+ 9.1	
1880.								
Mar. 1	E.	11 21.0	17 8.6	10 2 25.39	+ 4.56	74 25 11.4	+ 6.0	B. J. 1882
5	E.	11 1.9	16 49.4	9 59 1.10	+ 4.44	74 2 53.9	+ 6.8	
1881.								
June 18	E.	12 12.7	18 4.0	18 2 58.04	+ 1.91	108 34 57.9	+ 1.1	B. J. 1883
22	E.	11 53.0	17 44.3	17 59 1.20	+ 1.88	108 43 1.6	+ 1.7	
24	R.	11 43.1	17 34.4	17 57 2.59	+ 1.85	108 47 17.9	+ 1.4	
28	R.	11 23.5	17 14.8	17 53 8.68	+ 1.99	108 56 18.3	+ 1.8	
July 2	R.	11 4.1	16 55.4	17 49 23.24	+ 1.86	109 5 50.8	+ 1.8	
1885.								
July 29	P.	11 5.4	16 57.1	19 37 10.39	+ 3.41	110 40 33.2	2.8	Bull. Astron., Tome II, p. 282
30	W.	11 0.5	16 52.1	19 36 20.09	+ 3.28	110 45 23.0	− 1.9	
31	E.	10 55.8	16 47.4	19 35 30.92	+ 3.31	110 50 8.8	− 1.7	
Aug. 10	P.	10 9.4	16 0.7	19 28 28.26	+ 3.31	111 53 51.9	− 1.6	
12	E.	10 0.6	15 51.8	19 27 21.94	+ 3.25	111 41 38.7	− 0.2	
1886.								
Dec. 20	W.	11 17.7	17 6.2	5 16 23.62	+ 0.15	71 55 14.9	− 2.3	MS. Eph. by Luther
21	E.	11 12.8	17 1.3	5 15 22.51	+ 0.30	71 54 30.9	− 1.5	

VICTORIA ⑫

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1875.								
Sept. 24	P.	11 59.1	17 52.3	0 13 33.56	− 11.83	74 42 28.3	+ 59.6	B. J. 1877
Oct. 4	P.	11 11.6	17 4.6	0 5 20.01	− 11.53	76 27 57.2	+ 60.1	
7	F.	10 57.8	16 50.7	.. ..	.....	77 1 35.6	+ 60.8	
9	F.	10 48.3	16 41.2	0 1 42.95	− 11.16	77 24 6.0	+ 58.9	
12	F.	10 34.6	16 27.3	23 59 47.46	− 10.98	77 57 50.7	+ 60.9	
20	P.	9 59.2	15 51.6	23 55 45.47	− 10.23	79 24 49.3	+ 60.5	
1878.								
Apr. 30	F.	12 12.2	18 4.6	14 48 11.04	− 12.07	109 47 22.0	− 45.8	B. J. 1880
May 1	S.	12 7.1	17 59.7	14 47 14.87	− 12.40	109 38 14.6	− 46.1	
9	S.	11 28.3	17 20.9	14 39 41.95	− 12.30	108 21 13.2	− 49.8	
21	S.	10 30.8	16 23.4	14 29 18.36	− 11.92	106 21 21.0	− 52.4	
1879.								
Dec. 12	Pr.	10 53.0	16 41.4	4 18 52.28	− 7.43	72 19 48.0	+ 24.0	B. J. 1881
15	P.	10 38.4	16 26.6	4 16 1.24	− 7.39	72 33 47.9	+ 21.7	
1881.								
Mar. 10	E.	10 41.7	16 29.0	9 57 31.35	− 5.54	91 0 34.4	− 28.6	B. J. 1883
1882.								
Aug. 14	W.	12 45.9	18 40.3	22 20 5.88	− 20.23	81 27 30.1	+ 84.7	B. J. 1884
1889.								
July 8	S.	.. ....	.. ....	19 50 20.69	.....	95 17 33.5	....	Data for parallax derived from Approx. Eph. by Dr. Gill
16	E.	.. ....	.. ....	19 43 43.93	.....	94 48 57.7	....	
Aug. 12	E.	.. ....	.. ....	19 26 1.54	.....	95 11 43.8	....	
16	S.	.. ....	.. ....	19 25 4.32	.....	95 26 13.9	....	
21	S.	.. ....	.. ....	19 24 40.81	.....	95 46 29.5	....	
26	S.	.. ....	.. ....	19 25 12.72	.....	96 8 14.4	....	
27	H.	.. ....	.. ....	19 25 25.80	.....	96 12 42.7	....	
29	H.	.. ....	.. ....	19 25 58.49	.....	96 21 39.0	....	

EGERIA ⑬

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.		h m	h m	h m s	s	° ′ ″	″	
Aug. 17	H.	13 35.7	19 22.5	23 21 2.52	− 6.46	120 24 38.6	+ 42.9	B. J. 1868
Sept. 8	T.	11 46.9	17 33.8	22 59 1.70	− 6.95	121 47 46.2	+ 37.6	
12	T.	11 27.0	17 13.8	22 54 51.96	− 6.64	121 50 21.0	+ 35.7	
13	R.	11 22.1	17 8.9	22 53 50.12	− 7.14	121 50 21.6	+ 38.1	
14	T.	11 17.0	17 3.8	22 52 49.70	− 6.77	121 50 0.9	+ 35.5	
15	R.	11 12.1	16 58.8	22 51 49.48	− 6.90	121 49 27.8	+ 36.9	
1869.								
May 15	F.	10 59.1	16 47.4	14 34 42.25	+ 0.04	106 58 39.1	+ 2.9	B. J. 1871
1870.								
Aug. 3	F.	13 37.5	19 29.9	.. ..	....	126 38 52.8	+ 7.3	B. J. 1872
1871.								
Dec. 8	F.	11 11.5	17 1.3	4 21 15.49	+ 0.89	54 29 47.9	− 5.1	B. J. 1873
9	S.	11 6.2	16 56.0	4 19 58.33	+ 0.92	54 26 40.8	− 5.3	
15	E.	10 35.2	16 25.0	.. ..	....	54 12 0.9	− 7.7	
1875.								
Oct. 28	P.	13 14.1	19 3.1	3 42 45.92	+ 0.75	67 12 37.3	− 8.2	B. J. 1877
Nov. 2	P.	12 49.2	18 38.4	3 37 38.20	+ 0.69	66 50 3.8	− 8.1	
5	P.	12 34.1	18 23.4	3 34 18.76	+ 0.64	66 37 30.5	− 7.9	
8	F.	12 18.9	18 8.3	3 30 50.74	+ 0.67	66 25 43.3	− 9.3	
11	E.	12 3.6	17 53.1	3 27 16.18	+ 0.67	66 14 47.0	− 9.4	
12	P.	11 58.4	17 47.9	3 26 3.53	+ 0.58	66 11 18.9	− 10.0	
17	P.	11 32.6	17 22.1	3 19 56.69	+ 0.63	65 55 25.2	− 11.4	
30	Sk.	10 26.3	16 15.6	3 4 38.90	+ 0.86	65 24 16.6	− 10.6	
Dec. 2	F.	10 16.3	16 5.6	3 2 31.13	+ 0.74	65 20 36.1	− 9.6	
1879.								
Oct. 13	Pr.	13 15.7	19 4.3	2 45 22.51	+ 0.56	78 31 19.7	− 9.2	B. J. 1881
15	S.	13 5.9	18 54.5	2 43 29.88	+ 0.53	78 27 53.7	− 9.6	
25	Pr.	12 18.2	18 7.2	2 33 3.59	+ 0.48	78 11 48.8	− 10.2	
29	Pr.	11 56.0	17 45.0	2 28 33.92	+ 0.58	78 5 35.9	− 9.5	
Nov. 3	F.	11 30.5	17 19.5	2 22 51.34	+ 0.44	77 57 41.9	9.6	
10	Pr.	10 55.3	16 44.3	2 14 59.78	+ 0.46	77 45 51.1	− 8.9	
13	P.	10 40.2	16 29.1	2 11 46.25	+ 0.38	77 40 16.5	− 9.6	
14	Pr.	10 35.3	16 24.2	2 10 43.58	+ 0.49	77 38 21.4	− 8.0	
1881.								
Mar. 29	W.	11 37.0	17 26.4	12 7 49.53	+ 2.38	70 13 53.5	+ 28.1	B. J. 1883
1883.								
Oct. 9	W.	12 33.1	18 21.5	1 47 8.86	+ 0.70	89 38 9.1	− 13.2	B. J. 1885
10	S.	12 28.3	18 16.7	1 46 6.82	+ 0.75	89 38 30.2	− 15.2	
30	E.	10 48.3	16 36.7	1 24 50.18	+ 0.73	89 27 5.0	− 14.7	
31	S.	10 43.4	16 31.8	1 23 49.97	+ 0.71	89 25 17.6	− 15.4	
Nov. 1	P.	10 38.5	16 26.8	1 22 50.54	+ 0.60	89 23 21.9	− 16.3	
5	P.	10 19.1	16 7.3	1 19 3.02	+ 0.58	89 14 21.9	− 14.2	

IRENE ⑭

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1868.								
July 18	T.	11 8.1	16 56.4	18 57 1.97	+ 1.51	118 9 23.2	+ 5.5	B. J. 1870
22	T.	10 48.7	16 37.0	18 53 25.35	+ 1.54	118 22 57.6	+ 4.2	
1880.								
May 24	E.	.. ....	.. ....	14 18 0.56	....	93 12 42.5	....	Circ. B. J. No. 135
27	P.	.. ....	.. ....	14 16 24.11	....	93 25 1.8	....	
1881.								
Aug. 23	R.	12 22.8	18 8.4	22 33 15.58	+ 3.48	112 37 12.1	− 20.5	B. J. 1883
27	R.	12 3.4	17 49.0	22 29 41.35	+ 3.37	113 0 23.3	− 20.4	
1882.								
Nov. 15	W.	11 45.7	17 32.5	3 26 18.44	+ 3.58	79 28 20.8	− 20.3	B. J. 1884
1884.								
Mar. 29	W.	12 26.2	18 18.0	12 58 11.56	+ 4.53	78 27 36.9	+ 30.9	B. J. 1886
Apr. 17	P.	10 55.7	16 47.2	.. ..	....	77 53 26.7	+ 28.3	

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
				EUNOMIA ⑮				
1866.		h m	h m	h m s	s	° ′ ″	″	
Jan. 8	H.	10 32.3	16 22.3	5 46 8.90	+ 4.25	60 31 34.0	+ 1.5	B. J. 1868
13	T.	10 8.8	15 58.6	5 42 15.15	.....	61 6 22.1	...	
1868.								
June 15	N.	11 37.7	17 24.2	17 16 35.59	− 0.13	122 37 56.2	− 14.0	B. J. 1870
22	N.	11 2.8	16 49.3	17 9 16.99	− 0.30	122 5 50.4	− 13.9	
23	E.	10 57.8	16 44.2	17 8 17.22	+ 0.13	... .	...	
27	T.	10 38.5	16 24.9	17 4 24.71	− 0.26	121 40 6.0	− 13.7	
1876.								
Apr. 6	P.	13 4.3	18 47.7	14 7 42.54	....	120 29 57.1	....	B. J. 1878
15	E.	12 20.9	18 4.6	13 59 40.74	+ 6.55	120 5 13.9	+ 26.4	
19	E.	12 1.3	17 45.1	13 55 56.49	+ 6.56	119 49 18.1	+ 26.4	
22	P.	11 46.8	17 30.7	13 53 7.38	+ 6.51	119 35 34.0	+ 29.3	
26	P.	11 27.3	17 11.2	13 49 23.81	+ 6.39	119 14 55.3	+ 27.3	
May 3	S.	10 53.5	16 37.4	13 43 8.51	+ 6.50	118 33 42.8	+ 30.9	
4	P.	10 48.8	16 32.7	13 42 17.23	+ 6.37	118 27 23.1	+ 31.5	
1880.								
Apr. 9	P.	11 5.9	16 49.8	12 20 57.26	+ 9.35	110 50 9.0	+ 59.4	B. J. 1882
1881.								
June 12	R.	12 48.8	18 35.5	18 15 29.94	+ 13.32	121 0 39.1	− 31.8	B. J. 1883
22	E.	11 58.8	17 45.8	18 4 53.40	+ 13.43	120 32 58.9	24.9	
July 2	R.	11 8.9	16 55.9	17 54 13.96	+ 13.19	119 54 59.7	− 21.5	
1882.								
Nov. 15	W.	11 57.0	17 48.6	3 37 39.24	+ 34.74	52 28 27.7	− 70.6	B. J. 1884
1884.								
Mar. 2,	P.	10 45.3	16 29.9	10 57 26.93	+ 14.40	99 44 37.8	+ 112.8	B. J. 1886
				PSYCHE ⑯				
1868.								
Apr. 30	A.	11 53.8	17 36.9	14 31 25.34	+ 0.11	100 33 16.6	+ 3.9	B. J. 1870
May 11	N.	11 2.2	16 45.3	14 22 57.24	+ 0.28	99 50 20.7	+ 0.2	
1880.								
Nov. 20	W.	12 18.1	18 6.2	4 20 30.53	+ 5.45	73 29 4.2	− 10.0	B. J. 1882
Dec. 1	R.	11 25.0	17 13.0	4 10 34.39	+ 5.47	73 52 28.0	− 11.7	
6	W.	11 1.1	16 49.0	4 6 15.20	+ 5.18	74 1 8.3	− 12.3	
9	R.	10 46.7	16 34.5	4 3 48.60	+ 5.12	74 5 33.7	− 11.5	
13	R.	10 28.1	16 15.7	4 0 46.52	+ 5.04	74 10 21.0	− 13.0	
1882.								
Feb. 10	R.	13 7.5	18 50.8	10 32 24.85	+ 4.47	80 41 24.8	+ 24.2	B. J. 1884
Mar. 2	R.	11 33.4	17 16.7	10 16 50.48	+ 4.53	78 55 28.8	+ 23.8	
4	E.	11 24.0	17 7.2	10 15 19.91	+ 4.53	78 45 26.2	+ 23.4	
14	R.	10 37.8	16 20.6	10 8 23.31	+ 4.45	79 59 30.6	+ 21.7	
1883.								
Apr. 25	E.	12 25.8	18 8.8	14 41 19.74	+ 1.23	101 20 36.4	+ 2.8	B. J. 1885
27	R.	12 16.4	17 59.4	14 39 46.07	+ 1.33	101 12 21.6	+ 4.4	
30	S.	12 2.2	17 45.2	14 37 23.86	+ 1.13	100 59 59.8	+ 3.4	
May 2	W.	11 52.7	17 35.7	14 35 48.78	+ 1.12	100 51 50.2	+ 2.7	
3	E.	11 48.1	17 31.1	14 35 1.51	+ 1.36	100 47 50.0	+ 4.8	
9	R.	11 19.7	17 2.7	14 30 19.52	+ 1.17	100 24 22.2	+ 4.7	
				THETIS ⑰				
1879.								
Feb. 15	S.	12 49.2	18 38.1	10 32 35.84	− 0.31	76 25 39.2	− 0.7	B. J. 1881
Mar. 18	P.	10 21.0	16 9.6	10 6 9.16	− 0.38	73 3 14.2	− 0.2	
19	Pr.	10 16.3	16 4.9	10 5 30.51	− 0.23	72 58 54.5	− 2.7	
1880.								
Aug. 12	E.	11 27.0	17 18.4	20 54 59.41	+ 1.07	109 12 29.2	− 3.4	B. J. 1882
1881.								
Nov. 25	E.	12 13.4	18 0.2	4 34 27.93	+ 13.58	75 25 41.1	− 37.4	B. J. 1883
Dec. 5	R.	11 23.9	17 10.7	4 24 17.89	+ 13.29	75 37 27.4	− 40.0	
10	W.	10 59.4	16 46.1	4 19 24.17	+ 13.27	75 41 2.4	− 40.5	

MELPOMENE ⑱

Date.	Observer.	Washington Mean Time.		Berlin Mean Time Corrected for Aberration.		Apparent Right Ascension of Center.			Correction to Ephemeris.	Geocentric N. P. Distance of Center.			Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.		h	m	h	m	h	m	s	s	°	′	″	″	
June 20	T.	13	25.8	19	17.2	19	22	42.32	− 4.84	98	21	0.7	− 0.5	B. J. 1868
21	N.	13	21.2	19	12.7	19	21	56.74	− 4.91	98	22	54.6	+ 1.2	
25	N.	13	2.1	18	53.8	19	18	41.30	− 5.02	98	32	23.9	− 0.4	
July 2	N.	12	28.3	18	20.3	19	12	16.98	− 5.09	98	50	52.9	− 1.4	
5	N.	12	13.5	18	5.6	19	9	19.96	− 5.22	99	10	21.2	− 3.2	
6	R.	12	8.6	18	0.7	19	8	19.94	− 5.18	99	15	16.0	− 1.6	
11	T.	11	43.9	17	36.1	19	3	15.08	− 5.11	99	42	25.8	− 3.4	
12	R.	11	38.9	17	31.1	19	2	13.89	− 5.01	99	48	25.4	− 1.7	
14	T.	11	29.1	17	21.3	19	0	11.68	− 5.08	100	0	51.2	− 0.8	
1868.														
Feb. 11	A.	11	46.1	17	35.6	..	..	.....	....	77	14	34.7	+ 2.0	B. J. 1870
18	A.	11	12.1	17	1.3	9	5	42.15	+ 1.06	76	13	12.6	+ 0.1	
1869.														
May 4	F.	12	31.5	18	19.2	15	24	10.74	+ 0.12	92	20	21.2	− 1.9	B. J. 1871
15	F.	11	38.0	17	25.8	15	13	35.30	+ 0.37	91	26	59.3	+ 1.0	
1873.														
July 11	F.	12	20.0	18	12.5	19	40	44.08	− 0.08	99	27	44.7	+ 4.4	B. J. 1875
24	E.	11	16.1	17	8.8	19	28	0.46	− 0.25	101	3	14.7	+ 5.8	
30	F.	10	47.0	16	39.7	19	22	16.81	− 0.07	101	55	6.9	+ 8.3	
1876.														
Apr. 25	S.	13	33.9	19	21.3	15	52	16.47	+ 2.33	94	19	12.8	+ 2.8	B. J. 1878
May 3	S.	12	55.7	18	43.5	15	45	36.54	+ 2.25	93	31	50.5	+ 1.7	
4	P.	12	50.9	18	38.7	15	44	42.57	+ 2.32	93	26	18.5	+ 3.4	
13	E.	12	7.0	17	55.0	15	36	10.41	+ 2.53	92	41	17.6	+ 4.5	
23	S.	11	17.9	17	6.0	15	26	24.07	+ 2.34	92	4	57.7	+ 3.6	
27	S.	10	58.4	16	46.4	15	22	38.45	+ 2.45	91	55	23.8	+ 4.9	
29	E.	10	48.7	16	36.7	15	20	49.43	+ 2.39	91	51	43.7	+ 3.6	
31	S.	10	39.2	16	27.1	15	19	3.51	+ 2.26	91	48	50.8	+ 2.9	
1877.														
Dec. 3	P.	11	43.6	17	37.2	4	35	57.21	+ 7.64	88	8	20.6	− 4.8	B. J. 1879
11	F.	11	4.4	16	57.8	4	28	18.72	+ 7.49	87	46	38.7	− 5.2	
14	E.	10	50.0	16	43.2	4	25	44.17	+ 7.28	87	33	42.9	− 5.8	
1879.														
Apr. 1	F.	12	11.3	17	58.1	12	51	57.10	+ 4.30	84	23	23.0	+ 8.1	B. J. 1881
2	P.	12	6.4	17	53.2	12	51	3.13	+ 4.17	84	15	15.1	+ 4.5	
8	Pr.	11	37.4	17	24.2	12	45	42.34	+ 4.20	83	29	26.4	+ 4.0	
12	Pr.	11	18.2	17	4.8	12	42	14.42	+ 4.05	83	1	52.6	+ 5.6	
1882.														
Feb. 10	R.	12	36.9	18	25.7	10	1	41.68	+ 6.96	79	7	21.2	+ 9.0	B. J. 1884
Mar. 2	R.	10	59.7	16	48.0	9	43	2.75	+ 6.79	76	8	47.8	+ 6.7	
1883.														
May 9	R.	12	51.2	18	39.3	16	1	59.99	+ 4.67	94	7	41.1	+ 12.1	B. J. 1885
24	S.	11	37.7	17	26.1	15	47	24.12	+ 4.72	93	6	54.4	+ 10.9	
25	R.	11	32.7	17	21.1	15	46	24.98	+ 4.95	93	4	3.1	+ 9.5	
June 1	S.	10	58.5	16	46.8	15	39	39.26	+ 4.91	92	49	12.4	+ 8.4	
4	E.	10	43.9	16	32.1	15	36	54.11	+ 4.82	92	45	40.4	+ 9.5	
1884.														
Dec. 9	P.	11	59.0	17	52.2	5	16	23.29	+ 10.56	85	49	15.4	− 17.7	B. J. 1886

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
FORTUNA ⑲								
1866.		h m	h m	h m s	s	° ′ ″	″	
Mar. 26	N.	12 54.0	18 40.8	13 11 49.93	+ 7.77	98 20 45.7	+ 48.9	B. J. 1868
27	R.	12 49.3	18 36.1	13 10 58.96	+ 7.82	98 15 9.5	+ 48.1	
Apr. 9	N.	11 46.6	17 33.5	12 59 27.97	+ 7.91	96 58 11.0	+ 49.4	
19	N.	10 58.8	16 45.5	12 50 53.69	+ 7.87	.. ..	....	
1879.								
Oct. 13	Pr.	12 31.8	18 24.7	2 1 24.66	+ 15.47	77 22 56.1	— 74.1	B. J. 1881
25	Pr.	11 34.3	17 27.3	1 51 5.43	+ 15.67	78 33 24.7	— 77.5	
29	Pr.	11 15.3	17 8.3	1 47 39.79	+ 15.56	78 57 17.2	— 76.9	
Nov. 10	Pr.	10 19.1	16 11.7	1 38 41.95	+ 14.79	80 1 49.8	— 74.1	
1882.								
June 6	R.	12 41.1	18 29.3	17 43 11.05	+ 18.39	111 27 3.7	+ 2.2	B. J. 1884
1883.								
Nov. 13	P.	13 3.6	18 56.0	4 35 34.54	+ 20.15	69 25 17.2	— 30.3	B. J. 1885
14	W.	12 58.8	18 51.2	4 34 41.51	+ 20.13	69 28 12.8	— 31.3	
Dec. 3	P.	11 25.2	17 17.6	4 15 47.82	+ 20.58	70 28 41.3	— 38.9	
6	S.	11 10.5	17 2.8	4 12 52.36	+ 20.40	70 37 57.4	— 41.0	
10	S.	10 51.1	16 43.3	4 9 11.97	+ 19.95	70 49 35.9	— 42.1	
MASSALIA ⑳								
1866.								
June 8	R.	12 34.4	18 22.0	17 44 0.06	+ 4.98	112 29 50.4	+ 3.4	B. J. 1868
21	N.	11 30.0	17 17.6	17 30 32.93	+ 5.30	112 20 52.5	+ 4.6	
25	N.	11 10.2	16 57.7	17 26 33.02	+ 5.18	112 17 41.3	+ 5.2	
30	H.	10 45.7	16 33.0	17 21 49.25	+ 5.16	112 13 39.1	+ 7.3	
1869.								
Apr. 13	F.	10 21.4	16 11.5	11 50 50.42	+ 20.14	89 20 41.1	— 39.3	B. J. 1871
1870.								
July 23	F.	11 1.0	16 48.3	19 7 40.94	+ 7.61	111 27 51.4	— 4.9	B. J. 1872
1881.								
June 12	R.	12 34.8	18 22.2	18 1 32.01	+ 2.32	112 30 7.4	— 3.7	B. J. 1883
18	E.	12 5.0	17 52.4	17 55 20.07	+ 2.58	112 29 3.2	— 2.1	
22	E.	11 45.2	17 32.6	17 51 10.06	+ 2.52	112 28 0.8	— 1.7	
24	R.	11 35.2	17 22.6	17 49 6.11	+ 2.41	112 27 24.8	— 0.9	
28	R.	11 15.6	17 2.9	17 45 3.49	+ 2.46	112 26 2.1	— 0.7	
July 2	R.	10 55.9	16 43.1	17 41 10.89	+ 2.33	112 24 28.7	— 1.5	
1886.								
Nov. 19	P.	11 37.0	17 29.3	3 33 31.72	+ 8.54	71 27 48.2	— 27.7	B. J. 1888
30	W.	10 42.8	16 35.0	.. ..	....	72 10 10.4	— 28.8	
LUTETIA ㉑								
1866.								
Mar. 26	N.	13 29.2	19 17.3	13 47 1.23	— 0.58	96 30 28.1	— 0.8	B. J. 1868
Apr. 4	T.	12 46.4	18 34.8	13 39 40.51	— 0.68	95 47 18.3	+ 2.0	
9	N.	12 22.3	18 10.8	13 35 8.84	— 0.83	95 22 0.8	+ 0.4	
12	R.	12 7.7	17 56.3	13 32 20.63	— 0.90	95 6 54.3	— 1.4	
19	N.	11 33.6	17 22.3	13 25 45.01	— 0.71	94 32 43.1	— 0.2	
1867.								
Oct. 18	A.	10 50.1	16 42.3	0 38 48.29	+ 0.92	91 20 59.3	— 7.0	B. J. 1869
19	T.	10 45.4	16 37.5	0 38 2.62	+ 0.92	91 23 43.8	— 8.0	
23	H.	10 26.9	16 18.8	0 35 12.03	+ 0.79	91 32 56.4	— 8.6	
1869.								
Jan. 20	N.	13 3.9	18 50.5	9 6 32.66	— 1.01	69 42 55.5	— 4.5	B. J. 1871
Feb. 11	N.	11 15.5	17 2.0	8 44 33.43	— 1.05	68 2 5.4	— 4.8	
12	F.	11 10.7	16 57.1	8 43 36.73	— 1.25	.. ..	....	
13	T.	11 5.8	16 52.0	8 42 41.20	— 1.12	67 54 52.8	— 6.5	

LUTETIA—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1874.		h m	h m	h m s	s	° ′ ″	″	
June 1	E.	12 10.3	18 1.6	16 52 16.27	− 3.72	111 49 14.4	− 3.7	B. J. 1876
13	E.	11 10.6	17 2.0	16 39 49.45	− 3.36	111 47 49.8	− 4.1	
17	E.	10 51.0	16 42.4	16 35 53.59	− 3.37	111 47 10.1	− 5.8	
1875. Nov. 12	P.	13 31.6	19 18.9	4 59 32.21	− 3.03	68 32 21.2	+ 1.4	B. J. 1877
17	P.	13 7.2	18 56.7	4 54 50.53	− 3.02	68 33 51.6	+ 0.9	
29	P.	12 7.3	17 56.9	4 41 59.21	− 3.09	68 41 0.0	+ 5.9	
30	Sk.	12 2.3	17 51.9	4 40 52.17	− 2.99	68 41 45.3	+ 5.2	
Dec. 17	E.	10 37.5	16 26.9	4 22 56.85	− 3.12	68 55 59.8	+ 5.8	
20	P.	10 23.1	16 10.0	4 20 15.90	− 3.10	68 58 9.0	+ 4.6	
1879. Dec. 15	P.	12 46.6	18 34.8	6 24 36.05	− 5.48	65 44 53.3	− 5.2	B. J. 1881
1881. Mar. 24	R.	12 6.8	17 54.2	12 18 0.46	− 4.26	86 47 31.8	− 24.3	B. J. 1883

CALLIOPE (22)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866. Aug. 15	T.	13 42.0	19 28.0	23 19 36.92	− 0.88	116 58 26.0	+ 4.6	B. J. 1868
16	R.	13 37.6	19 23.7	23 18 57.29	− 0.73	117 5 23.7	+ 3.5	
17	H.	13 32.9	19 19.0	23 18 16.12	− 1.06	117 12 16.5	+ 2.7	
20	N.	13 18.9	19 5.0	23 16 7.74	− 0.61	117 32 20.5	− 0.1	
1869. Mar. 23	F.	12 38.7	18 23.2	12 45 10.08	+ 7.47	75 17 11.2	+ 55.2	B. J. 1871
Apr. 13	F.	10 58.8	16 42.7	12 28 15.13	+ 7.58	74 35 39.7	+ 56.0	
1871. Sept. 21	F.	11 2.6	16 48.7	23 4 55.98	− 7.54	118 6 11.4	+ 12.0	B. J. 1873

THALIA (23)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866. Jan. 9	R.	10 51.5	16 44.3	6 10 15.79	+ 0.75	56 5 19.7	− 0.9	B. J. 1867
13	T.	10 32.0	16 24.7	6 6 34.26	....	55 47 58.6	....	
1867. May 27	N.	12 21.2	18 7.6	16 42 20.76	+ 1.93	112 52 3.2	+ 7.9	B. J. 1869
June 4	T.	11 40.4	17 26.7	16 33 1.38	+ 1.70	113 0 8.7	+ 5.9	
6	N.	11 31.5	17 17.8	16 31 58.86	+ 2.03	113 1 52.4	+ 7.9	
11	T.	11 5.9	16 52.0	16 26 0.65	+ 1.72	113 5 37.6	+ 7.4	
13	N.	10 56.1	16 42.1	16 24 6.31	+ 1.71	113 7 0.0	+ 8.4	
1868. Aug. 20	F.	11 40.2	17 23.8	.. ..	....	119 3 51.6	− 7.2	B. J. 1870
26	T.	11 11.2	16 54.7	21 33 54.72	+ 1.26	119 24 40.8	− 6.9	

THEMIS (24)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866. July 23	N.	12 46.3	18 27.5	20 53 4.00	+ 0.58	108 42 50.1	+ 2.0	B. J. 1868
31	H.	12 8.6	17 49.8	20 46 55.97	+ 0.52	... .	....	
Aug. 3	T.	11 54.4	17 35.5	20 44 36.36	+ 0.70	109 16 14.9	+ 1.8	
10	H.	11 21.5	17 2.6	20 39 15.05	+ 0.76	109 36 5.3	+ 5.5	
15	T.	10 58.1	16 39.1	20 35 35.96	+ 0.31	109 48 54.0	+ 3.6	
17	H.	10 48.8	16 29.7	20 34 12.32	+ 0.36	109 53 40.0	+ 3.2	
20	N.	10 35.2	16 15.9	20 32 12.03	+ 0.63	110 0 22.3	+ 2.0	
1867. Sept. 30	N.	12 2.5	17 44.8	0 40 22.13	+ 0.49	86 12 2.7	− 2.6	B. J. 1869
Oct. 1	H.	11 57.8	17 40.1	0 39 38.04	+ 0.37	86 16 30.0	− 5.5	
1870. Mar. 24	F.	12 47.2	18 33.5	12 57 9.23	+ 0.25	95 33 38.0	+ 3.7	B. J. 1872
1876. Apr. 25	S.	13 19.5	19 3.9	15 37 53.80	....	109 45 14.3	....	B. J. 1878

THEMIS—Continued.

Date.		Observer.	Washington Mean Time.		Berlin Mean Time Corrected for Aberration.		Apparent Right Ascension of Center.			Correction to Ephemeris.	Geocentric N. P. Distance of Center.			Correction to Ephemeris.	Ephemeris, Remarks, etc.
1876.			h	m	h	m	h	m	s	s	°	′	″	″	
Apr.	26	P.	13	14.8	18	59.2	15	37	10.92	....	109	43	3.7	....	
May	3	S.	12	42.0	18	26.6	15	31	52.97	− 0.16	109	26	38.9	− 3.5	
	4	P.	12	37.3	18	21.9	15	31	5.40	− 0.26	109	24	10.4	− 0.9	
	13	E.	11	54.6	17	39.2	15	23	47.92	− 0.02	109	0	4.3	− 1.7	
	23	S.	11	7.4	16	51.8	15	15	50.77	− 0.03	108	32	10.3	− 2.1	
May	27	S.	10	48.7	16	32.9	15	12	53.17	− 0.10	108	21	23.3	− 2.1	
	29	E.	10	39.4	16	23.6	15	11	29.07	+ 0.22	108	16	10.5	− 2.5	
June	1	P.	10	25.5	16	9.5	15	9	28.20	− 0.30	108	8	41.4	− 1.1	
1877.															
July	30	P.	11	39.8	17	20.9	20	15	27.45	− 0.09	110	58	27.1	− 1.0	B. J. 1879
1878.															
Sept.	14	S.	12	41.8	18	23.3	0	18	6.20	+ 0.07	88	44	12.0	− 0.3	B. J. 1880
	19	P.	12	18.7	18	0.3	0	14	36.16	− 0.05	89	6	19.6	+ 0.4	
Oct.	1	P.	11	22.8	17	4.5	0	5	55.77	− 0.15	90	0	45.3	+ 0.7	
1879.															
Dec.	15	P.	11	24.3	17	10.0	5	2	7.52	− 0.49	66	22	11.8	− 2.0	B. J. 1881
1881.															
Apr.	4	S.	11	9.4	16	56.0	12	3	48.32	− 0.15	89	44	46.9	− 3.8	B. J. 1883
1883.															
Aug.	21	R.	12	8.3	17	49.1	22	9	1.80	+ 0.44	102	31	7.9	+ 1.2	B. J. 1885
	23	R.	11	58.9	17	39.7	22	7	32.93	− 0.05	102	39	3.1	− 0.9	
	30	R.	11	26.3	17	7.0	22	2	25.86	− 0.11	103	6	10.4	+ 1.2	
	31	R.	11	21.7	17	2.4	22	1	43.35	+ 0.42	103	9	52.9	0.0	
Sept.	3	R.	11	7.8	16	48.4	21	59	35.90	− 0.03	103	20	45.1	− 1.5	
	5	S.	10	58.6	16	39.2	21	58	13.65	+ 0.24	103	27	45.8	− 0.1	
	6	R.	10	53.9	16	34.4	21	57	32.87	− 0.05	103	31	11.4	+ 1.2	
1884.															
Oct.	23	P.	11	53.5	17	36.7	2	5	35.29	− 0.23	77	19	21.9	+ 1.9	B. J. 1886
	25	S.	11	44.1	17	27.3	2	4	0.76	− 0.15	77	27	15.5	− 0.3	
Nov.	5	E.	10	52.4	16	35.6	1	55	30.30	− 0.06	78	10	44.6	+ 0.5	
	6	S.	10	47.7	16	30.9	1	54	45.77	− 0.25	78	14	33.8	+ 0.3	
	7	P.	10	43.0	16	26.2	1	54	2.03	− 0.18	78	18	21.5	+ 0.9	
	8	W.	10	38.5	16	21.6	1	53	19.07	+ 0.08	78	22	4.2	− 0.7	
	11	P.	10	24.5	16	7.5	1	51	12.94	− 0.27	78	33	0.6	+ 1.1	
	14	S.	10	10.7	15	53.6	1	49	14.16	+ 0.03	78	43	23.0	+ 1.3	

PHOCEA ㉕

Date.		Observer.	Washington Mean Time.		Berlin Mean Time Corrected for Aberration.		Apparent Right Ascension of Center.			Correction to Ephemeris.	Geocentric N. P. Distance of Center.			Correction to Ephemeris.	Ephemeris, Remarks, etc.
1867.															
Jan.	24	N.	12	26.4	18	10.7	8	42	37.75	+ 1.79	103	53	23.8	+ 6.3	B. J. 1869
	28	N.	12	7.0	17	51.4	8	38	52.08	+ 1.70	103	42	36.2	+ 6.1	
	31	N.	11	52.3	17	36.8	8	36	2.38	+ 1.99	103	31	37.3	+ 4.0	
Feb.	5	H.	11	28.0	17	12.5	8	31	21.79	+ 1.49	103	8	11.6	+ 5.2	
	6	T.	11	23.0	17	7.5	8	30	26.90	+ 1.61	103	2	45.2	+ 4.9	
	7	N.	11	18.2	17	2.7	8	29	32.35	+ 1.62	102	57	7.0	+ 7.0	
	11	N.	10	59.0	16	43.5	8	25	59.98	+ 1.66	102	32	10.4	+ 7.1	
1875.															
Apr.	5	E.	10	31.9	16	20.3	11	27	58.61	+ 4.01	105	15	24.4	+ 4.5	B. J. 1877
	7	F.	10	22.7	16	11.1	11	26	33.11	+ 3.81	104	46	53.4	+ 1.5	
1876.															
Oct.	11	F.	12	37.5	18	29.2	2	2	4.09	+ 5.54	72	34	18.7	+ 12.9	B. J. 1878
	12	P.	12	32.6	18	24.3	2	1	11.85	+ 5.67	72	51	27.5	+ 12.5	
	13	F.	12	27.9	18	19.6	2	0	19.26	+ 5.94	73	8	45.6	+ 13.3	
	17	F.	12	8.5	18	0.2	1	56	44.65	+ 5.75	74	18	54.5	+ 14.0	
	18	S.	12	3.7	17	55.4	1	55	50.70	+ 5.71	74	36	34.6	+ 12.2	
	27	P.	11	20.5	17	12.0	1	47	58.22	+ 5.55	77	15	10.1	+ 9.7	
Nov.	1	E.	10	56.9	16	48.2	1	43	59.50	+ 5.59	78	39	54.3	+ 9.5	
	5	E.	10	38.3	16	29.4	1	41	7.48	+ 5.47	79	44	24.9	+ 11.6	
	7	S.	10	29.1	16	20.0	1	39	48.92	+ 5.38	80	15	16.6	+ 11.6	

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PROSERPINA ㉖								
1866.		h m	h m	h m s	s	° ′ ″	″	
May 3	R.	11 15.5	17 5.5	14 2 45.37	....	101 29 19.9	....	
7	N.	10 56.3	16 55.9	13 59 23.69	....	101 18 45.7	....	
12	T.	10 32.7	16 46.2	13 55 30.26	....	101 7 4.1	....	
14	N.	10 23.4	16 36.8	13 54 4.36	....	101 3 4.6	....	
1874.								
Feb 10	E.	11 44.9	17 33.7	9 10 15.40	− 2.30	67 44 12.0	− 7.8	B. J. 1876
17	E.	11 11.9	16 59.7	9 3 43.24	− 1.46	67 20 37.4	− 5.2	
EUTERPE ㉗								
1866.								
May 12	T.	13 5.9	18 53.5	16 28 0.34	− 0.99	110 27 7.6	− 0.3	B. J. 1868
21	N.	12 20.5	18 8.3	16 18 56.23	− 1.06	110 9 14.1	− 5.0	
June 11	N.	10 36.9	16 24.4	15 57 53.18	− 0.94	109 24 29.5	− 2.6	
1870.								
July 8	F.	11 39.3	17 26.8	18 46 57.56	+ 1.42	113 25 14.6	+ 3.9	B. J. 1872
23	F.	10 25.6	16 12.8	18 32 14.89	+ 1.22	103 58 4.9	+ 9.9	
1876.								
Jan. 31	F.	13 22.0	19 14.7	10 5 18.74	+ 1.68	75 55 13.3	+ 9.2	B. J. 1878
Feb. 2	P.	13 12.3	19 5.0	10 3 32.81	+ 1.71	75 43 27.3	+ 9.2	
18	P.	11 53.9	17 46.5	9 48 2.55	+ 1.86	74 9 43.6	+ 11.4	
19	E.	11 49.2	17 41.8	9 47 4.77	+ 2.03	74 4 20.6	+ 9.5	
Mar. 3	F.	10 46.9	16 39.0	9 35 59.10	+ 2.12	73 7 10.3	+ 10.8	
4	S.	10 42.3	16 34.4	9 35 17.41	+ 2.16	73 3 52.5	+ 9.6	
BELLONA ㉘								
1866.								
Nov. 6	R.	12 29.4	18 17.8	.. ..	....	86 7 25.9	....	
8	R.	12 19.9	18 8.3	3 32 36.72	....	86 16 25.8	....	
9	H.	12 15.0	18 3.4	3 31 45.90	....	86 20 46.8	....	
AMPHITRITE ㉙								
1866.								
Feb. 20	R.	13 33.9	19 22.1	11 37 37.45	+ 1.32	85 32 45.3	+ 17.1	B. J. 1868
21	T.	13 29.0	19 17.3	11 36 48.66	+ 1.33	85 29 43.1	+ 19.6	
Mar. 5	H.	12 31.2	18 19.7	11 26 2.70	+ 1.28	84 48 45.3	+ 20.7	
6	R.	12 26.3	18 14.8	.. ..	....	84 45 8.5	+ 18.8	
7	T.	12 21.4	18 9.9	11 25 8.45	+ 1.35	84 41 34.1	+ 19.2	
10	T.	12 6.6	17 55.1	11 21 16.16	+ 1.36	84 30 53.9	+ 19.1	
13	R.	11 51.8	17 40.3	11 18 24.56	+ 1.42	84 20 29.8	+ 20.9	
22	R.	11 8.5	16 56.7	11 10 11.72	+ 1.22	83 52 7.5	+ 18.6	
26	N.	10 49.4	16 37.5	11 6 52.35	+ 1.34	83 41 39.6	+ 19.1	
1867.								
June 14	H.	12 32.5	18 20.2	18 4 42.10	+ 2.06	123 11 47.1	− 1.7	B. J. 1869
19	H.	12 7.5	17 55.3	.. ..	....	123 13 46.0	+ 1.5	
20	N.	12 2.5	17 50.3	17 58 13.75	+ 2.29	123 13 48.0	+ 2.9	
21	H.	11 57.5	17 45.3	17 57 8.16	+ 2.13	123 13 40.2	+ 2.2	
1874.								
Feb. 11	S.	12 55.1	18 43.9	10 23 35.70	− 0.77	74 57 28.2	− 2.2	B. J. 1876
1875.								
May 31	E.	12 5.9	17 53.3	16 43 1.02	+ 1.12	121 46 23.2	+ 2.9	B. J. 1877
June 4	E.	11 45.9	17 33.2	16 38 43.66	+ 1.10	121 41 28.6	+ 5.5	

AMPHITRITE—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1875.		h m	h m	h m s	s	° ′ ″	″	
June 9	F.	11 20.9	17 8.3	16 33 26.25	+ 1.13	121 32 36.1	+ 4.5	
1876.								
Sept. 27	F.	11 48.3	17 38.2	.. ..	....	86 22 48.2	− 4.5	B. J. 1878
28	S.	11 43.1	17 33.0	0 16 19.37	+ 0.54	86 25 51.2	− 5.2	
29	P.	11 38.3	17 28.2	0 15 22.42	+ 0.51	86 28 57.1	− 4.2	
Oct. 2	S.	11 23.6	17 13.5	0 12 32.99	+ 0.57	86 38 10.9	− 5.1	
3	P.	11 18.7	17 8.5	0 11 37.15	+ 0.57	86 41 16.3	− 4.0	
11	F.	10 41.2	16 31.0	0 4 32.04	+ 0.73	87 4 47.5	− 5.6	
12	P.	10 35.5	16 25.2	0 3 42.44	+ 0.59	87 7 30.6	− 5.7	
13	F.	10 30.8	16 20.5	0 2 53.84	+ 0.47	87 10 11.3	− 4.3	
17	F.	10 12.0	16 1.6	23 59 51.44	....	87 19 0.6	....	
18	S.	10 7.3	15 56.9	23 59 8.92	....	87 22 14.6	....	
1880.								
Sept. 24	R.	11 16.5	17 6.2	23 33 52.03	+ 0.51	92 47 29.0	− 2.3	B. J. 1882
28	R.	10 57.1	16 46.7	23 30 17.55	+ 0.46	92 58 21.7	− 2.3	
29	W.	10 52.3	16 41.9	23 29 25.74	+ 0.51	93 0 53.3	− 3.9	
Oct. 1	S.	10 42.8	16 32.4	23 27 44.60	+ 0.50	93 5 44.5	− 4.9	
2	R.	10 38.0	16 24.6	23 26 55.45	+ 0.41	93 8 2.9	− 4.6	
1882.								
Feb. 10	R.	11 25.3	17 14.3	8 49 53.57	− 2.19	65 11 38.5	− 12.3	B. J. 1884
17	S.	10 51.2	16 40.0	8 43 19.41	− 2.23	65 8 40.8	− 9.4	
1883.								
April 27	R.	13 23.0	19 9.9	15 46 35.08	− 0.49	117 52 26.9	− 1.8	B. J. 1885
May 2	W.	12 58.9	18 46.0	15 42 7.02	− 0.68	117 51 9.2	− 4.4	
3	E.	12 54.1	18 41.3	15 41 10.74	− 0.47	117 50 33.2	− 1.7	
9	R.	12 24.6	18 11.9	15 35 16.89	− 0.51	117 43 57.5	− 1.7	
16	S.	11 49.9	17 37.3	15 28 6.91	− 0.50	117 30 38.6	− 1.9	
24	S.	11 10.4	16 57.7	15 20 2.30	− 0.42	117 9 11.2	− 2.3	
25	R.	11 5.8	16 52.8	15 19 3.87	− 0.41	117 6 9.1	− 1.1	

URANIA (30)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1868.								
May 26	A.	11 39.0	17 27.7	15 59 8.34	+ 3.70	113 42 43.3	+ 11.5	B. J. 1870
June 5	E.	10 49.5	16 38.2	15 49 1.73	+ 4.00	113 7 16.3	+ 4.0	

EUPHROSYNE (31)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1868.								
Apr. 21	N.	11 58.9	17 41.4	14 1 5.30	− 9.74	103 11 42.4	− 20.9	B. J. 1870
24	A.	11 44.2	17 26.6	13 58 6.97	− 9.71	103 14 3.4	− 20.4	
27	N.	11 29.5	17 11.8	13 55 10.74	− 9.69	103 16 13.8	− 22.3	
1876.								
Sept. 28	S.	11 6.9	16 49.5	23 39 57.86	− 1.00	120 8 20.9	+ 13.4	B. J. 1878
Oct. 3	P.	10 42.3	16 24.8	23 35 7.73	− 1.14	119 52 10.9	+ 16.2	
1877.								
Dec. 3	P.	13 10.6	18 59.1	6 3 20.97	− 7.40	32 48 50.7	+ 12.2	B. J. 1879
11	F.	12 27.9	18 16.6	5 51 58.07	− 7.95	31 26 8.4	+ 13.3	
1879.								
May 24	F.	13 40.7	19 23.9	13 50 5.31	− 1.07	92 20 9.9	− 15.1	B. J. 1881
25	S.	13 35.9	19 19.2	13 49 12.94	− 1.02	92 20 36.9	− 18.5	
31	Pr.	13 6.7	18 50.1	13 43 42.24	− 1.30	92 23 42.0	− 20.9	
Apr. 8	Pr.	12 27.5	18 10.9	13 35 52.27	− 1.28	92 28 48.5	− 21.0	
12	Pr.	12 7.8	17 51.2	13 31 51.72	− 1.28	92 32 7.6	− 20.0	
21	F.	11 23.5	17 6.7	13 22 57.75	− 1.12	92 42 20.4	− 17.9	

POMONA ㉜

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.		h m	h m	h m s	s	° ′ ″	″	
Sept. 8	T.	12 16.0	18 3.1	23 28 11.35	− 0.56	86 21 7.9	+ 4.5	B. J. 1868
12	T.	11 57.0	17 44.1	23 24 54.99	− 0.48	86 46 36.9	+ 3.4	
13	R.	11 52.3	17 39.4	23 24 5.33	− 0.88	86 53 14.1	+ 6.7	
14	T.	11 47.5	17 34.6	23 23 16.50	− 0.50	86 59 49.8	+ 4.8	
15	R.	11 42.7	17 29.8	.. ..	....	87 6 32.8	+ 6.8	
21	T.	11 14.2	17 1.3	23 17 38.34	− 0.64	87 47 25.9	+ 7.1	
22	N.	11 9.6	16 56.6	23 16 51.83	− 0.40	87 54 18.3	+ 7.8	
24	N.	11 0.1	16 47.1	23 15 19.90	− 0.50	88 8 2.9	+ 6.4	
27	N.	10 46.2	16 33.1	23 13 7.21	− 0.34	88 28 33.3	+ 5.7	
Oct. 2	R.	10 23.1	16 9.8	23 9 41.39	− 0.87	89 2 3.5	+ 8.4	
3	H.	10 18.4	16 5.1	23 9 3.67	− 0.32	89 8 32.7	+ 7.9	
1867.								
Dec. 23	H.	11 43.4	17 31.7	5 52 21.13	+ 0.46	73 8 58.4	+ 2.5	B. J. 1870
26	H.	11 28.5	17 16.8	5 49 20.14	+ 0.54	73 12 59.3	+ 1.9	
1869.								
May 4	F.	11 31.2	18 19.2	14 23 34.28	− 0.77	104 14 30.1	− 0.4	B. J. 1871
1871.								
Dec. 8	F.	11 29.5	17 17.2	4 39 21.8	− 0.22	72 29 3.4	+ 5.7	B. J. 1873
9	S.	11 24.5	17 12.2	4 38 23.48	+ 0.19	72 32 26.0	+ 3.2	
1875.								
Nov. 2	P.	12 58.4	18 45.4	3 49 46.21	− 0.57	71 40 27.5	+ 2.3	B. J. 1877
5	P.	12 47.0	18 34.1	3 47 13.97	− 0.53	71 54 43.9	+ 1.2	
8	F.	12 32.6	18 19.8	3 44 34.63	− 0.58	72 9 29.4	+ 2.2	
11	E.	12 18.1	18 5.4	3 41 50.18	− 0.39	72 24 35.5	+ 2.8	
12	P.	12 13.2	18 0.5	3 40 54.20	− 0.58	72 29 40.7	+ 2.8	
17	P.	11 48.9	17 36.2	3 36 11.34	− 0.52	72 55 21.4	+ 1.8	
1879.								
Nov. 13	P.	10 49.1	16 36.0	2 20 39.26	− 1.36	76 14 18.4	+ 5.4	B. J. 1881
14	Pr.	10 44.3	16 31.1	2 19 50.40	− 1.12	76 20 19.2	+ 7.0	
1881.								
Mar. 2	E.	11 5.8	16 55.6	9 50 3.43	+ 0.11	85 48 24.3	− 0.2	B. J. 1883
10	E.	10 28.6	.. ....	9 44 21.39	....	84 58 19.0	....	No Ephemeris
1882.								
July 6	E.	12 5.1	17 53.9	19 5 24.95	− 2.78	104 22 26.6	+ 5.8	B. J. 1884
10	E.	11 45.7	17 34.4	19 1 40.38	− 3.10	104 25 31.3	+ 3.3	
24	R.	10 38.7	16 27.0	18 49 39.91	− 2.61	104 43 44.0	+ 2.8	
1883.								
Oct. 10	S.	12 18.3	18 5.1	1 36 6.05	− 1.91	77 17 48.4	+ 9.4	B. J. 1885
31	S.	10 38.4	16 25.0	1 18 41.50	− 1.91	79 39 57.2	+ 9.9	
Nov. 1	P.	10 33.6	16 20.2	1 17 56.56	− 2.14	79 46 32.5	+ 10.2	
5	P.	10 15.1	16 1.5	1 15 6.91	− 2.04	80 12 5.4	+ 8.7	

POLYHYMNIA ㉝

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1868.								
June 13	T.	12 11.5	18 2.2	17 42 39.03	− 5.26	116 41 31.9	− 0.9	B. J. 1870
15	N.	12 1.6	17 52.4	17 40 38.61	− 5.31	116 41 44.5	− 0.4	
18	N.	11 46.8	17 37.7	17 37 35.35	− 5.51	116 41 33.0	− 0.1	
26	E.	11 7.3	16 58.3	17 29 29.09	− 5.14	116 38 8.2	− 2.9	
27	T.	11 2.4	16 53.4	17 28 30.20	− 5.36	116 37 27.8	− 0.3	
1872.								
April 13	E.	11 22.5	18 3.5	12 53 13.19	+ 4.52	96 7 40.3	+ 27.2	B. J. 1874
1873.								
July 23	F.	11 34.8	17 28.1	19 42 44.80	− 8.92	115 3 39.2	+ 22.4	B. J. 1875
24	E.	11 30.0	17 23.2	19 41 53.13	− 8.86	115 5 10.3	+ 24.0	
30	F.	11 1.5	16 54.8	19 36 55.45	− 8.82	115 12 5.6	+ 21.4	
Aug. 5	E.	10 33.6	16 26.8	19 32 34.41	− 8.76	115 15 19.5	+ 23.2	
7	F.	10 24.5	16 17.7	19 31 18.73	− 8.75	115 15 33.8	+ 24.1	
1877.								
May 2	S.	10 33.5	16 15.7	3 18 5.19	− 3.09	99 11 32.7	− 21.2	B. J. 1879

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
POLYHYMNIA—Continued.								
1883.		h m	h m	h m s	s	° ′ ″	″	
Sept. 26	R.	12 57.7	18 51.3	1 20 26.79	− 15.49	81 15 26.4	+ 99.0	B. J. 1885
28	S.	12 48.4	18 42.0	1 19 2.89	− 15.65	81 20 13.3	+ 101.1	
Oct. 10	S.	11 52.1	17 45.7	1 9 46.20	− 15.37	81 55 21.1	+ 101.5	
26	E.	10 37.7	16 30.7	0 58 19.13	− 14.11	82 42 4.1	+ 93.9	
30	E.	10 19.8	16 12.6	0 56 10.14	+ 1.88	82 50 41.4	− 8.4	Approx. Eph. from office of American Ephemeris
31	S.	10 15.4	16 8.2	0 55 41.63	+ 1.77	82 52 30.6	− 9.9	
Nov. 1	P.	10 10.9	16 3.6	0 55 14.58	+ 1.62	82 54 11.8	− 9.6	
5	P.	9 53.8	15 46.3	0 53 43.52	+ 1.35	82 59 32.3	− 12.0	
1888.								
Oct. 17	W.	13 10.0	19 2.0	2 58 39.85	− 19.17	71 19 46.8	+ 84.0	B. J. 1890
29	S.	12 12.2	18 4.2	2 48 0.46	− 19.17	71 50 39.5	+ 86.7	
30	P.	12 7.3	17 59.3	2 47 3.39	− 19.38	.. ..	....	
31	E.	12 2.4	17 54.4	2 46 6.58	− 19.21	71 56 57.5	+ 86.6	
Nov. 1	S.	11 57.5	17 49.4	2 45 9.62	− 19.16	72 0 12.0	+ 87.0	
10	W.	11 14.0	17 5.7	2 36 51.14	− 18.71	72 28 39.0	+ 89.1	
12	W.	11 4.3	16 55.9	2 35 7.89	− 18.47	72 37 23.1	+ 87.6	
CIRCE ㉞								
1866.								
Oct. 31	H.	12 36.1	18 23.3	3 17 17.99	+ 1.06	77 35 7.3	+ 3.5	B. J. 1868
Nov. 2	H.	12 26.6	18 13.9	3 15 36.99	+ 1.16	77 45 47.0	+ 0.5	
5	N.	12 12.2	17 59.6	3 13 1.33	+ 1.18	78 1 49.4	− 0.2	
6	R.	12 7.4	17 54.8	.. ..	+	78 7 12.1	+ 3.0	
7	T.	12 2.5	17 49.9	3 11 15.30	+ 0.97	78 12 27.5	+ 0.2	
8	R.	11 57.7	17 45.1	3 10 22.04	+ 1.01	78 17 45.9	+ 2.8	
9	H.	11 52.9	17 40.4	3 9 28.66	+ 1.11	78 22 59.8	+ 1.3	
12	N.	11 38.5	17 26.0	3 6 47.96	+ 1.19	78 38 25.4	− 1.7	
16	H.	11 19.2	17 6.7	3 3 15.02	+ 1.01	78 58 17.6	+ 0.1	
17	T.	11 14.4	17 1.9	3 2 22.60	+ 1.05	79 3 4.7	0.0	
26	T.	10 30.5	16 18.0	2 54 55.72	+ 1.14	79 41 55.1	− 2.3	
LEUCOTHEA ㉟								
1867.								
Sept. 6	N.	12 22.9	18 4.2	23 26 11.53	− 2.25	95 15 15.9	+ 20.2	B. J. 1869
1876.								
Apr. 18	P.	12 31.7	18 22.3	14 22 21.59	+ 2.10	113 57 46.2	+ 20.3	B. J. 1878
19	E.	12 26.9	18 17.5	14 21 28.50	+ 2.18	113 58 8.8	+ 20.4	
22	P.	12 12.4	18 3.0	14 18 45.88	+ 2.07	113 58 18.1	+ 20.3	
25	S.	11 57.8	17 48.5	14 16 1.06	+ 2.10	113 57 2.3	+ 18.2	
26	P.	11 52.0	17 43.7	14 15 5.86	+ 1.98	113 56 20.8	+ 18.9	
May 3	S.	11 19.1	17 9.7	14 8 47.39	+ 2.14	113 47 51.0	+ 19.2	
13	E.	10 31.9	16 22.3	14 0 45.35	+ 2.13	113 27 43.7	+ 19.3	
ATALANTA ㊱								
1878.								
Nov. 14	Pr.	9 53.5	15 46.9	1 29 48.84	− 18.03	51 59 24.5	+ 194.1 (?)	B. J. 1880

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
FIDES ㊲								
1866.		h m	h m	h m s	s	° ′ ″	″	
Mar. 26	N.	13 5.7	18 51.7	13 23 28.67	+ 0.09	99 34 46.7	+ 3.8	B. J. 1868
Apr. 9	N.	11 58.4	17 44.5	13 11 18.83	+ 0.05	98 36 7.2	+ 0.9	
19	N.	11 10.4	16 56.3	13 2 41.19	+ 0.19	97 52 22.1	+ 2.0	
25	T.	10 42.2	16 27.8	12 59 58.09	+ 0.37	97 27 51.2	− 0.3	
1867.								
June 27	N.	11 55.9	17 41.1	18 19 5.63	+ 0.45	118 4 10.2	− 1.5	B. J. 1869
July 9	H.	10 56.8	16 41.9	.. ..	....	118 5 12.4	0.0	
10	T.	10 52.0	16 37.1	18 6 24.59	+ 0.35	118 4 49.6	− 3.0	
11	N.	10 47.1	16 32.2	18 5 30.16	+ 0.48	118 4 27.2	− 2.1	
1874.								
Feb. 10	E.	11 58.8	17 48.5	9 23 37.32	− 6.55	70 32 41.2	− 31.0	B. J. 1876
18	F.	11 20.3	17 9.8	9 16 4.78	− 6.76	70 10 11.4	− 29.1	
1876.								
July 22	S.	12 50.9	18 37.8	20 56 14.18	− 1.94	111 45 17.5	+ 3.4	B. J. 1878
Aug. 9	E.	11 23.2	17 10.3	20 39 14.32	− 1.76	112 41 36.0	+ 2.9	
1877.								
Dec. 11	F.	13 1.3	18 52.8	6 25 29.28	− 11.49	61 12 1.9	− 5.4	B. J. 1879
19	F.	12 21.8	18 13.4	6 17 22.31	− 11.82	61 2 16.5	− 2.3	
1885.								
Sept. 24	W.	11 19.4	17 9.5	23 36 8.53	− 7.56	93 43 38.8	+ 52.0	B. J. 1887
26	S.	11 9.9	17 0.0	23 34 24.21	− 7.58	93 51 26.7	+ 50.0	
30	S.	10 50.8	16 40.8	23 31 2.45	− 7.55	94 6 14.3	+ 51.5	
LÆTITIA ㊴								
1866.								
May 2	T.	12 25.5	18 10.9	15 10 8.35	+ 3.18	92 43 31.3	+ 11.8	B. J. 1868
3	R.	12 20.7	18 6.1	15 8 20.58	+ 3.10	92 38 23.1	+ 12.1	
12	T.	11 38.1	17 23.5	15 1 5.58	+ 3.22	91 57 3.2	+ 6.9	
15	R.	11 23.9	17 9.3	14 58 42.06	+ 3.12	91 45 40.8	+ 9.3	
19	T.	11 5.0	16 50.3	14 55 35.97	+ 3.18	91 32 31.5	+ 8.8	
21	N.	10 55.7	16 41.0	14 54 5.92	+ 3.19	91 26 56.6	+ 12.0	
22	H.	10 51.0	16 36.2	14 53 21.73	+ 3.12	91 24 20.7	+ 10.4	
24	N.	10 41.7	16 26.9	14 51 55.63	+ 3.20	91 19 38.9	+ 7.2	
HARMONIA ㊵								
1866.								
Feb. 21	T.	13 14.3	19 4.6	11 21 56.85	− 0.23	78 36 54.3	+ 2.8	B. J. 1868
Mar. 5	H.	12 15.7	18 6.2	11 10 37.38	− 0.20	77 10 55.5	+ 1.0	
7	T.	12 5.9	17 56.4	11 8 39.37	− 0.16	76 57 37.7	+ 3.9	
10	T.	11 51.2	17 41.6	11 5 42.93	− 0.20	76 38 29.6	+ 3.2	
17	T.	11 17.0	17 7.3	10 59 6.05	− 0.06	75 59 4.9	− 0.2	
26	N.	10 34.3	16 24.2	10 51 39.31	....	75 21 57.2	....	
1876.								
Jan. 14	E.	13 43.0	19 33.3	9 19 24.50	+ 1.13	70 12 35.2	+ 0.7	B. J. 1878
20	S.	13 14.1	19 4.6	9 13 59.45	+ 1.24	69 33 26.5	+ 0.6	
21	P.	13 9.1	18 59.6	9 13 0.96	+ 1.18	69 26 49.4	+ 0.3	
25	P.	12 49.5	18 40.1	9 8 57.91	+ 1.25	69 0 25.1	− 0.3	
Feb. 2	P.	12 9.4	18 0.0	9 0 24.81	+ 1.22	68 9 48.0	+ 1.5	
12	F.	11 19.6	17 10.0	8 49 54.33	+ 1.41	67 15 33.5	+ 0.7	
16	F.	11 0.0	16 50.3	8 46 2.85	+ 1.04	66 57 49.1	+ 1.3	
17	S.	10 55.2	16 45.4	8 45 8.22	+ 1.32	66 53 46.7	+ 1.3	
18	P.	10 50.3	16 40.5	8 44 14.48	+ 1.19	66 49 53.7	+ 0.9	
1880.								
May 3	P.	10 55.1	16 45.5	13 44 50.40	+ 2.75	94 4 27.3	+ 18.6	B. J. 1882
4	E.	10 50.4	16 40.7	13 43 57.35	+ 2.49	94 1 30.4	+ 17.3	

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
HARMONIA—Continued.								
		h m	h m	h m s	s	° ′ ″	″	
1880. May 8	E.	10 31.3	16 21.5	13 40 36.99	+ 2.76	93 51 25.1	+ 19.3	
1881. Sept. 24	R.	12 12.4	18 4.5	0 29 8.01	+ 0.19	95 28 54.4	— 2.2	B. J. 1883
Oct. 10	R.	10 55.0	16 46.9	0 14 27.58	+ 0.18	96 49 50.6	— 2.7	
11	W.	10 51.1	16 42.0	0 13 37.74	+ 0.21	96 53 25.6	0.0	
1884. July 14	P.	12 15.3	18 7.1	19 49 10.39	+ 2.75	113 51 30.1	+ 0.4	B. J. 1886
16	E.	12 5.3	17 57.1	19 47 4.47	+ 2.75	114 1 32.7	— 0.7	
19	W.	11 51.4	17 43.2	19 43 54.89	+ 2.79	114 16 12.3	+ 1.5	
21	S.	11 40.4	17 32.2	19 41 49.37	+ 2.91	114 25 13.0	— 0.2	
1888. Oct. 30	P.	11 28.7	17 20.6	2 8 23.14	+ 1.35	.. ..	....	B. J. 1890
31	E.	11 23.8	17 15.7	2 7 24.55	+ 1.11	84 10 34.4	— 8.8	
Nov. 1	S.	11 18.8	17 10.7	2 6 22.81	+ 1.24	84 13 50.5	— 8.5	
10	W.	10 35.2	16 26.8	1 57 59.59	+ 1.15	84 36 41.5	— 7.4	
12	W.	10 25.6	16 17.2	1 56 19.70	+ 0.96	84 39 57.2	— 7.8	
DAPHNE (41)								
1867. Oct. 7	N.	12 34.5	18 16.1	1 40 9.63	—101.72	88 47 22.6	+ 185.0	B. J. 1869
8	H.	12 29.9	18 11.5	1 39 25.46	—101.97	88 55 8.5	+ 186.4	
19	T.	11 38.5	17 20.0	1 31 9.51	—101.84	90 17 9.7	+ 181.2	
23	H	11 19.7	17 1.1	.. ..	......	90 44 45.8	+ 182.8	
1871. Sept. 21	F.	10 49.3	16 33.8	22 51 36.11	— 0.24	92 23 27.9	+ 6.3	B. J. 1873
1874. Jan. 16	E.	11 26.8	17 13.1	7 12 31.09	+ 3.23	90 13 16.5	+ 2.7	B. J. 1876
28	E.	10 29.3	16 15.5	7 2 14.47	+ 3.38	89 8 18.5	— 0.5	
1884. May 12	W.	12 53.5	18 46.2	16 19 6.64	— 19.00	84 53 50.2	— 48.5	B. J. 1886
15	P.	12 39.8	18 32.5	16 17 11.20	— 19.06	84 26 10.1	— 45.8	
31	P.	11 26.0	17 18.4	16 6 17.33	— 18.61	82 53 17.9	— 39.2	
June 4	P.	11 7.8	17 0.1	16 3 47.49	— 18.28	82 45 38.8	— 34.9	
ISIS (42)								
1867. Mar. 25	N.	12 47.1	18 34.7	12 59 48.50	— 0.41	82 9 15.8	+ 7.8	B. J. 1869
28	N.	12 32.4	18 20.1	12 58 4.35	— 0.34	81 51 16.8	+ 7.0	
29	H.	12 27.6	18 15.3	12 56 8.52	— 0.39	81 45 26.2	+ 4.6	
30	T.	12 22.7	18 10.4	12 55 12.07	— 0.65	81 39 44.5	+ 4.9	
Apr. 2	H.	12 8.1	17 55.9	12 52 21.63	— 0.56	81 23 21.8	+ 6.0	
3	T.	12 3.2	17 51.0	12 51 24.34	— 0.59	81 18 10.0	+ 6.2	
6	T.	11 48.5	17 36.3	12 48 32.33	— 0.52	81 3 27.2	+ 7.5	
ARIADNE (43)								
1867. June 1	N.	11 49.9	17 44.7	16 30 37.68	....	113 45 7.7	....	No Ephemeris
4	T.	11 35.1	17 29.9	16 27 42.51	....	113 28 56.8	....	
6	N.	11 25.3	17 20.1	16 25 47.92	....	113 18 7.3	....	
10	N.	11 6.0	17 0.7	16 22 7.66	....	112 56 12.7	....	
11	T.	11 1.1	16 55.8	16 21 15.25	....	112 50 47.8	....	
15	T.	10 42.2	16 36.9	16 17 58.32	....	112 29 6.7	....	
1876. Jan. 14	E.	12 40.3	18 29.1	8 16 30.97	— 0.57	73 32 47.3	— 1.5	B. J. 1878
20	S.	12 10.0	17 59.0	8 9 41.55	— 0.43	73 18 29.0	— 1.3	

ÁRIADNE—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1876.		h m	h m	h m s	s	° ′ ″	″	
Jan. 25	P.	11 44.6	17 33.6	8 3 56.23	− 0.70	73 6 3.5	− 1.3	
31	F.	11 14.3	17 3.2	7 57 13.96	− 0.48	72 51 14.3	− 1.1	
Feb. 2	P.	11 4.3	16 53.1	7 55 5.45	− 0.52	72 46 25.3	− 2.2	
4	F.	10 54.3	16 43.1	7 53 0.85	− 0.50	72 41 43.3	− 1.9	
5	S.	10 49.4	16 38.2	7 52 0.18	− 0.46	72 39 24.6	− 3.7	
10	P.	10 25.1	16 13.7	7 47 15.29	− 0.55	72 28 29.6	− 2.6	
1877.								
July 6	P.	13 30.1	19 24.7	20 31 24.18	− 8.81	105 3 6.0	+ 31.4	B. J. 1879
12	F.	13 1.6	18 56.3	20 26 32.41	− 8.84	104 59 0.6	+ 28.9	
14	P.	12 52.0	18 46.8	20 24 45.42	− 8.89	104 58 33.8	+ 29.5	
30	P.	11 33.9	17 28.6	20 9 33.46	− 8.84	105 6 38.6	+ 28.2	
1880.								
May 3	P.	12 18.5	18 12.5	15 8 25.99	+ 4.04	112 10 6.2	+ 7.9	B. J. 1882
20	E.	10 55.5	16 49.7	14 52 12.45	+ 4.12	110 22	....	
1881.								
Dec. 10	W.	10 35.0	16 23.9	3 54 51.79	+ 2.45	68 2 26.4	+ 0.5	B. J. 1883
1884.								
Oct. 23	P.	11 42.1	17 33.1	1 54 6.86	+ 4.89	73 6 15.7	− 19.1	B. J. 1886
25	S.	11 32.1	17 23.1	1 52 0.17	+ 4.93	73 20 23.0	− 21.9	
NYSA ㊹								
1866.								
Oct. 3	H.	12 35.3	18 25.4	1 26 2.27	− 1.14	87 8 10.3	+ 7.7	B. J. 1868
5	H.	12 25.7	18 15.9	1 24 18.75	− 1.35	87 21 20.4	+ 9.8	
6	N.	12 20.9	18 11.1	1 23 26.04	− 1.37	87 27 53.4	+ 8.6	
8	N.	12 11.2	18 1.5	1 21 39.00	− 1.33	87 40 58.1	+ 5.9	
13	N.	11 47.0	17 37.4	1 17 4.86	− 1.34	88 13 14.8	+ 6.6	
17	H.	11 27.6	17 18.0	1 13 23.91	− 1.35	88 37 56.7	+ 7.0	
19	H.	11 17.9	17 8.3	1 11 34.53	− 1.33	88 49 45.0	+ 8.1	
25	R.	10 49.0	16 39.3	1 6 17.96	− 1.27	89 22 14.3	+ 9.7	
EUGENIA ㊺								
1866.								
May 19	T.	13 16.6	19 5.7	17 7 24.52	+ 4.15	102 17 38.9	+ 13.3	B. J. 1868
22	H.	13 2.6	18 51.8	17 5 6.03	+ 4.13	102 11 51.3	+ 12.0	
24	N.	12 53.0	18 42.2	17 3 29.54	+ 4.09	102 8 25.4	+ 14.1	
28	N.	12 34.0	18 23.3	17 0 8.91	+ 4.29	102 2 31.2	+ 15.8	
30	T.	12 24.4	18 13.7	16 58 25.44	+ 4.20	102 0 6.0	+ 17.2	
June 4	N.	12 0.3	17 49.7	16 55 2.23	+ 4.23	101 55 39.8	+ 17.3	
5	R.	11 55.5	17 44.9	16 54 9.12	+ 4.06	101 55 2.6	+ 15.5	
8	R.	11 41.2	17 30.5	16 50 30.92	+ 4.04	101 53 52.8	+ 15.3	
13	H.	11 17.1	17 6.4	16 46 13.36	+ 4.10	101 54 8.1	+ 18.7	
16	T.	11 2.9	16 52.1	16 43 45.46	+ 4.24	101 55 32.0	+ 16.2	
18	N.	10 53.4	16 42.5	16 42 10.57	+ 4.28	101 57 0.8	+ 14.2	
21	N.	10 40.1	16 29.1	16 39 54.86	+ 4.22	102 0 9.2	+ 16.8	
1867.								
Sept. 23	H.	12 7.8	17 54.3	0 18 7.49	+ 0.22	94 11 57.9	− 1.0	B. J. 1869
24	T.	12 3.1	17 49.6	0 17 20.63	+ 0.26	94 18 53.4	− 1.7	
27	H.	11 49.0	17 35.5	0 14 59.60	+ 0.17	94 39 22.2	− 0.6	
28	T.	11 44.3	17 30.8	0 14 12.80	+ 0.27	94 46 2.9	− 0.8	
Oct. 7	N.	11 2.1	16 48.5	0 7 23 78	+ 0.36	95 41 49.8	− 1.0	
8	H.	10 57.4	16 43.6	0 6 40.68	+ 0.34	95 47 27.7	+ 0.2	
1875.								
June 4	E.	12 20.4	18 9.6	17 13 15.53	− 15.87	102 33 17.9	− 28.7	B. J. 1877
9	F.	11 56.2	17 45.4	17 8 49.76	− 15.99	102 32 2.5	− 26.9	
13	F.	11 37.0	17 26.2	17 5 18.44	− 15.81	102 32 49.3	− 25.4	

EUGENIA—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
		h m	h m	h m s	s	° ′ ″	″	
1876.								
Sept. 27	F.	11 56.7	17 42.9	0 25 59.53	− 6.68	93 46 25.3	+ 35.2	B. J. 1878
28	S.	11 52.0	17 38.2	0 25 12.54	− 6.60	93 53 5.3	+ 32.5	
Oct. 3	P.	11 28.4	17 14.6	0 21 18.96	− 6.64	94 25 29.1	+ 34.4	
11	F.	10 51.1	16 37.0	0 15 23.62	− 6.56	95 11 50.3	+ 36.3	
12	P.	10 46.4	16 32.2	0 14 41.69	− 6.65	95 17 0.7	+ 34.1	
13	F.	10 41.8	16 27.6	0 14 0.62	− 6.59	95 22 6.2	+ 35.5	
17	F.	10 23.5	16 19.2	0 11 24.49	....	95 40 53.8	....	
18	S.	10 19.0	16 4.7	0 10 47.81	....	95 45 3.8	....	

HESTIA ㊻

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1873.								
July 11	F.	12 40.2	18 31.6	20 1 2.42	+ 0.85	106 40 25.2	− 2.7	B. J. 1875
30	F.	11 8.2	16 59.8	19 43 38.73	+ 0.98	107 38 50.7	+ 1.2	
Aug. 5	E.	10 39.6	16 31.0	19 38 42.70	+ 0.77	107 57 59.8	− 2.0	
7	F.	10 30.4	16 21.8	19 37 43.30	+ 0.86	108 4 14.5	− 0.7	
9	E.	10 21.1	16 12.5	19 35 48.97	+ 0.88	108 10 19.2	− 1.9	
1876.								
Mar. 21	P.	12 36.0	18 21.7	12 36 19.02	+ 0.51	93 32 56.5	+ 3.2	B. J. 1878
23	F.	12 26.4	18 12.1	.. ..	....	93 20 43.9	+ 4.0	
31	F.	11 48.3	17 34.1	.. ..	....	92 31 5.4	+ 5.1	
Apr. 4	F.	11 29.1	17 14.9	12 24 25.75	+ 0.72	92 6 30.3	+ 2.6	
9	S.	11 5.5	16 51.2	12 20 21.43	+ 0.74	91 36 51.4	+ 1.8	
10	P.	11 0.7	16 46.4	12 19 34.25	+ 0.77	91 31 5.7	+ 0.2	
15	E.	10 37.3	16 22.8	12 15 49.06	+ 0.72	91 3 41.2	− 0.4	

AGLAIA ㊼

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.								
June 18	N.	11 14.0	17 2.6	17 2 43.77	− 24.18	120 46 35.7	− 36.4	B. J. 1868
20	T.	11 4.3	16 52.8	17 0 52.50	− 24.26	120 43 49.5	− 42.8	
21	N.	10 59.5	16 48.0	16 59 58.12	− 24.09	120 42 22.6	− 41.9	
1867.								
Oct. 18	A.	11 40.6	17 28.3	1 29 22.59	− 23.09	77 33 41.8	+ 157.2	B. J. 1869
31	H.	10 38.7	16 26.0	1 18 29.32	− 22.44	78 17 54.2	+ 160.0	
Nov. 1	A.	10 33.9	16 21.2	1 17 43.99	− 22.30	78 21 10.2	+ 160.2	
2	H.	10 29.3	16 16.5	1 16 59.75	− 22.05	78 44 19.4	+ 156.2	
1869.								
Jan. 20	N.	11 11.2	16 54.2	7 13 27.80	+ 0.38	60 43 44.0	− 3.7	B. J. 1871
1876.								
July 21	F.	11 14.7	17 3.8	19 15 42.61	+ 1.62	120 16 3.2	− 7.5	B. J. 1878
26	S.	10 50.7	16 39.7	19 11 26.89	+ 1.47	120 14 29.9	− 9.9	

DORIS ㊽

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.								
Mar. 26	N.	13 10.1	18 53.3	13 27 54.53	− 1.34	97 0 44.5	− 4.3	B. J. 1868
Apr. 9	N.	12 5.5	17 48.9	13 18 19.09	− 1.47	95 37 48.2	− 5.2	
11	T.	11 56.2	17 39.6	13 16 54.01	− 1.47	95 25 50.7	− 6.7	
19	N.	11 19.2	17 2.5	13 11 20.11	− 1.42	94 39 34.4	− 4.1	
25	T.	10 51.7	16 34.8	13 7 26.37	− 1.31	94 7 23.6	− 7.3	
1867.								
June 6	N.	13 6.1	18 48.5	18 6 51.73	− 1.99	104 19 37.6	− 2.9	B. J. 1869
10	N.	12 47.5	18 30.0	18 3 53.45	− 2.12	104 16 1.3	− 2.7	
11	T.	12 42.7	18 25.2	18 3 7.84	− 2.04	104 15 14.7	− 3.1	
13	N.	12 33.3	18 15.9	18 1 35.54	− 1.84	104 13 50.2	− 4.8	
27	N.	11 27.3	17 9.7	17 50 33.11	− 1.94	104 10 22.6	+ 0.1	
1868.								
Aug. 26	T.	12 33.1	18 17.6	22 55 59.31	− 2.30	92 33 55.3	+ 7.0	B. J. 1870
29	T.	12 19.3	18 3.9	22 53 56.24	− 2.36	92 51 19.0	+ 8.8	
Sept. 7	F.	11 37.6	17 22.2	.. ..	....	93 46 2.5	+ 12.5	

PALES (49)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1867.		h m	h m	h m s	s	° ′ ″	″	
June 11	T.	12 31.8	18 14.1	17 52 15.19	+ 1.02	115 18 39.7	+ 0.3	B. J. 1869
13	N.	12 22.3	18 4.7	17 50 31.66	+ 0.89	115 17 17.8	+ 2.2	
27	N.	11 15.1	16 57.6	17 38 16.30	+ 0.93	115 3 50.0	+ 4.1	
29	T.	11 5.6	16 48.1	17 36 34.08	+ 0.82	115 1 22.2	+ 1.0	
1874.								
Dec. 14	E.	12 49.8	18 38.1	6 24 44.71	+ 2.49	64 54 35.4	+ 10.8	B. J. 1876
15	F.	12 45.0	18 33.3	6 23 48.52	+ 2.57	64 59 9.1	+ 11.1	
18	E.	12 30.1	18 18.4	6 20 56.86	+ 2.54	65 1 6.6	+ 12.8	
1876.								
Mar. 3	F.	12 41.2	18 21.7	.. ..	....	90 54 57.9	+ 11.6	B. J. 1878
6	E.	12 27.1	18 7.6	11 28 13.17	— 1.54	90 42 6.5	+ 12.2	
13	P.	11 54.3	17 34.8	11 22 59.14	— 1.47	90 10 53.8	+ 14.0	
22	E.	11 12.5	16 52.7	11 16 29.52	— 1.24	89 30 5.9	+ 13.8	
1877.								
May 14	S.	10 52.2	16 30.8	14 24 14.58	+ 0.04	108 27 41.8	+ 13.2	B. J. 1879
1878.								
July 2	E.	11 53.0	17 36.7	18 37 21.41	+ 2.32	114 4 55.7	— 9.1	B. J. 1880
3	F.	11 48.2	17 31.9	18 36 27.97	+ 2.28	114 4 52.4	— 11.5	
20	F.	10 27.1	16 10.6	18 22 12.23	....	114 0 36.1	....	
1879.								
Oct. 13	Pr.	12 40.2	18 30.4	2 9 50.20	+ 9.65	71 19 20.7	— 65.7	B. J. 1881
15	S.	12 30.9	18 21.1	2 8 22.93	+ 9.74	71 26 0.1	— 66.6	
24	Pr.	11 43.8	17 34.1	2 0 37.10	+ 9.80	72 6 33.3	— 68.2	
Nov. 3	F.	11 1.4	16 51.6	1 53 40.04	+ 9.73	72 49 50.9	— 65.0	
10	Pr.	10 29.2	16 19.2	1 48 50.69	+ 9.30	73 24 28.5	— 67.7	
1883.								
June 14	R.	10 56.2	16 36.9	16 28 37.11	+ 0.86	114 27 47.4	+ 5.4 (?)	B. J. 1885

VIRGINIA (50)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1876.								
Feb. 4	F.	11 51.3	17 37.4	8 50 7.53	+ 1.62	75 9 28.5	+ 1.6	B. J. 1878
12	F.	11 12.7	16 58.5	8 42 51.17	+ 1.47	74 33 24.6	+ 4.6	
17	S.	10 48.8	16 34.3	.. ..	....	74 12 18.9	+ 6.4	

NEMAUSA (51)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.								
June 20	T.	13 11.2	19 1.2	19 8 6.60	— 0.36	96 7 53.9	— 4.7	B. J. 1868
July 6	R.	11 54.5	17 44.7	18 53 19.72	— 0.31	96 36 0.5	— 2.6	
11	T.	11 29.2	17 19.3	18 48 37.42	— 0.31	.. ..	....	
13	H.	11 19.5	17 9.6	18 46 47.67	— 0.27	97 2 6.0	— 3.9	
14	T.	11 14.7	17 4.8	18 45 53.50	— 0.50	97 6 24.0	— 5.7	
16	N.	11 5.0	16 55.0	18 44 7.74	— 0.60	97 15 30.0	— 3.3	
1867.								
Oct. 23	H.	12 53.9	18 43.3	3 2 38.50	+ 0.78	84 31 49.0	+ 5.9	B. J. 1869
24	A.	12 49.2	18 38.6	3 1 48.77	+ 0.89	84 40 5.8	+ 7.1	
26	H.	12 39.6	18 29.1	3 0 6.36	+ 0.74	84 56 28.5	+ 5.9	
31	H.	12 15.5	18 5.0	2 55 38.60	+ 0.68	85 36 21.6	+ 5.1	
Nov. 1	A.	12 10.6	18 0.1	2 54 43.99	+ 1.14	85 44 7.0	+ 6.5	
2	H.	12 5.8	17 55.3	2 53 48.40	+ 0.90	85 51 42.1	+ 4.4	
5	A.	11 51.3	17 40.8	2 51 1.25	+ 1.07	86 13 54.6	+ 7.1	
6	T.	11 46.4	17 35.9	2 50 5.01	+ 0.78	86 21 1.5	+ 6.2	
8	A.	11 36.6	17 26.1	2 48 13.44	+ 0.90	86 34 53.2	+ 8.2	
19	A.	10 43.6	16 32.9	2 38 25.95	+ 0.83	87 38 36.5	+ 7.0	
1869.								
Mar. 23	F.	12 29.9	18 21.6	12 36 47.84	— 0.64	90 17 32.7	— 15.3	B. J. 1871

NEMAUSA—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
		h m	h m	h m s	s	° ′ ″	″	
1869.								
Apr. 13	F.	10 51.5	16 43.0	.. ..	....	86 34 55.1	− 12.4	
1876.								
Jan. 25	P.	13 24.9	19 15.9	9 44 32.81	+ 1.42	87 36 54.6	− 12.4	B. J. 1878
31	F.	12 56.7	18 47.9	9 39 55.18	+ 1.69	86 57 25.3	− 14.7	
Feb. 2	P.	12 47.2	18 38.5	9 38 15.10	+ 1.55	86 42 21.6	− 18.1	
18	P.	11 30.2	17 21.6	9 24 12.31	+ 1.70	84 17 53.9	− 25.7	
19	E.	11 25.5	17 16.9	9 23 21.40	+ 1.78	84 7 58.6	− 23.7	
EUROPA (52)								
1867.								
Nov. 19	A.	12 7.9	17 54.2	4 2 51.01	− 0.66	80 9 24.8	+ 2.8	A. N. No. 1663
Dec. 2	H.	11 5.9	16 52.2	3 51 58.56	− 0.69	80 26 44.1	0.0	
5	H.	10 51.7	16 37.9	3 49 35.76	− 0.55	80 28 16.7	+ 1.7	
1869.								
Feb. 20	T.	13 2.4	18 49.2	11 7 12.96	− 0.59	78 13 59.8	− 4.1	B. J. 1871
27	F.	12 29.8	18 15.8	11 2 12.26	− 0.76	77 25 8.3	− 4.0	
CALYPSO (53)								
1868.								
July 22	T.	12 19.3	18 4.4	20 24 11.08	− 1.90	106 30 27.9	+ 5.6	B. J. 1870
25	T.	12 4.8	17 49.9	20 21 30.54	− 1.59	106 43 25.2	+ 9.6	
Aug. 12	T.	10 38.6	16 23.5	20 5 59.63	− 1.70	107 59 50.5	+ 9.5	
15	T.	10 24.5	16 9.3	20 3 42.55	− 1.91	108 11 39.0	+ 11.9	
1875.								
Apr. 5	E.	11 27.5	17 16.3	12 23 41.05	− 4.53	86 13 3.7	− 24.7	B. J. 1877
ALEXANDRA (54)								
1866.								
Mar. 17	T.	12 28.4	18 15.1	12 10 28.07	+ 9.77	106 35 3.8	+ 291.6	B. J. 1868
26	N.	11 44.3	17 31.3	12 1 52.90	+ 9.77	106 14 9.0	+ 293.9	
1876.								
Aug. 26	F.	12 58.8	18 49.3	23 22 3.15	+ 1.49	82 22 31.3	− 18.5	B. J. 1878
Sept. 2	F.	12 24.7	18 15.3	23 15 27.76	+ 1.21	94 17 11.6	− 19.1	
PANDORA (55)								
1866.								
May 7	N.	12 27.0	18 12.2	15 30 17.56	− 0.05	116 35 20.1	+ 3.4	B. J. 1868
12	T.	12 2.5	17 47.8	15 25 29.99	− 0.29	116 28 51.8	+ 2.3	
14	N.	11 52.7	17 38.0	15 23 34.01	+ 0.17	116 25 34.2	+ 0.3	
19	T.	11 28.3	17 13.6	15 18 43.35	− 0.02	116 15 57.8	+ 4.9	
21	N.	11 18.5	17 3.8	15 16 48.76	+ 0.03	116 11 30.9	+ 3.1	
22	H.	11 13.5	16 58.8	15 15 51.75	− 0.25	116 9 8.2	− 0.9	
1869.								
Jan. 20	N.	11 40.5	18 27.1	7 42 41.36	+ 2.23	57 45 9.1	+ 0.8	B. J. 1871
1870.								
Mar. 21	F.	12 53.8	18 37.5	12 52 53.34	− 0.23	95 32 42.7	− 4.9	B. J. 1872
1875.								
May 11	E.	11 4.6	16 49.1	14 22 42.59	− 0.97	110 19 48.6	− 14.9	B. J. 1877
1876.								
Aug. 21	E.	11 30.0	17 19.5	21 33 16.33	− 1.07	114 5 2.7	+ 4.0	B. J. 1878

PANDORA—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1876.		h m	h m	h m s	s	° ′ ″	″	
Aug. 28	E.	10 56.2	16 45.5	21 27 2.40	− 1.38	114 9 15.0	+ 4.4	
1879.								
Mar. 18	P.	12 19.5	18 3.5	12 5 1.83	− 0.71	88 18 24.9	− 4.8	B. J. 1881
19	Pr.	12 14.7	17 58.7	12 4 10.35	− 0.65	88 14 44.1	− 3.7	
24	F.	11 50.8	17 34.8	11 59 52.77	− 0.42	87 56 28.7	− 6.8	
25	S.	11 46.0	17 30.0	11 59 1.48	− 0.49	87 53 0.3	− 2.1	
1881.								
Oct. 10	R.	11 50.1	17 40.5	1 9 41.35	− 0.01	80 42 47.4	− 1.4	B. J. 1883
20	E.	11 1.5	16 51.8	1 0 30.78	+ 0.18	81 0 20.8	− 0.2	
21	S.	10 56.7	16 47.0	0 59 38.32	− 0.04	81 2 6.1	+ 1.2	
22	R.	10 52.0	16 42.3	0 58.8	....	81 3 48.8	+ 1.5	
25	S.	10 37.7	16 27.9	0 56 17.69	0.00	81 8 40.0	− 0.6	
26	R.	10 33.0	16 23.2	0 55 30.01	− 0.03	81 10 14.2	+ 1.5	
1886.								
Dec. 20	W.	10 46.4	16 34.8	4 45 1.75	+ 0.50	56 48 49.1	− 0.9	B. J. 1888
21	E.	10 41.5	16 29.9	4 44 4.54	+ 0.49	56 51 1.5	0.0	

MELETE (56)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.								
Nov. 7	T.	13 24.9	19 10.8	4 33 51.14	....	76 46 42.9	....	A. N. No. 1612
9	H.	13 15.5	19 1.4	4 32 11.16	+ 1.87	76 55 53.9	− 11.0	
12	N.	13 1.1	18 47.0	4 29 34.35	+ 1.84	77 9 46.3	− 4.4	
16	H.	12 41.7	18 27.8	4 25 55.43	+ 1.79	77 27 39.3	− 4.4	
26	T.	11 52.9	17 37.9	4 16 22.44	+ 1.61	78 8 37.5	− 5.5	
Dec. 4	R.	11 13.9	16 59.6	.. ..	....	78 35 55.7	− 2.3	
5	N.	11 9.0	16 54.7	4 7 54.60	+ 1.81	78 38 50.9	− 5.6	
8	T.	10 54.6	16 40.2	4 5 14.47	+ 1.57	78 47 7.3	− 6.3	
12	R.	10 35.5	16 20.9	4 1 53.09	+ 1.74	78 56 40.0	− 2.5	
1869.								
May 3	N.	12 39.2	18 30.7	15 27 46.07	+ 5.25	100 26 22.5	+ 5.1	B. J. 1871
15	F.	11 42.3	17 34.2	15 17 53.73	+ 5.26	98 51 42.7	+ 1.8	
20	N.	11 18.3	17 10.1	15 13 44.37	+ 5.51	98 16 14.0	+ 5.4	
1874.								
Nov. 4	E.	10 40.1	16 28.9	1 37 6.28	+ 14.62	84 5 13.0	− 49.4	B. J. 1876
6	S.	10 31.0	16 19.7	1 35 42.35	+ 14.38	84 18 11.6	− 49.8	
7	Sk.	10 26.2	16 14.8	.. ..	.....	84 24 28.6	− 46.7	
1876.								
Jan. 14	E.	11 35.7	17 18.9	7 11 44.91	+ 2.93	79 7 43.5	+ 9.8	B. J. 1878
25	P.	10 43.0	16 25.9	7 2 9.15	+ 2.89	78 37 41.8	+ 10.0	
1877.								
Mar. 15	P.	12 35.7	18 23.2	12 11 26.57	− 2.16	94 20 51.6	− 11.6	B. J. 1879
29	E.	11 29.1	17 17.0	11 59 50.25	− 1.82	92 24 46.1	− 12.4	
30	F.	11 24.3	17 12.2	11 59 0.74	− 2.05	92 16 15.9	− 11.6	
Apr. 5	P.	10 56.0	16 43.8	11 54 14.82	− 2.00	91 25 42.3	− 12.4	
11	F.	10 28.1	.. ....	11 49 54.45	....	90 37 25.0	....	
1882.								
Aug. 14	W.	12 17.3	18 10.5	21 51 24.92	+ 4.73	90 28 18.4	− 9.3	B. J. 1884
1886.								
July 23	S.	10 27.6	16 20.8	18 34 41.98	+ 1.83	97 36 55.3	− 4.3	B. J. 1888

MNEMOSYNE (57)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
		h m	h m	h m s	s	° ′ ″	″	
1868. Apr. 21	N.	11 36.7	17 18.1	13 38 50.98	− 0.49	97 14 29.8	− 9.7	B. J. 1870
24	A.	11 22.9	17 4.3	13 36 51.49	− 0.58	96 53 16.4	− 6.2	
1885. Apr. 20	P.	12 46.1	18 27.0	14 44 1.97	+ 8.48	98 40 42.3	− 10.2	MS. Eph. by Luther
21	W.	12 41.2	18 22.1	14 43.4	....	98 34 2.9	− 7.9	
22	E.	12 36.9	18 17.9	14 42 41.23	+ 8.79	98 27 21.1	− 8.9	
May 5	E.	11 36.9	17 17.9	14 33 39.61	+ 8.53	97 3 23.8	− 8.2	
8	E.	11 22.9	17 3.8	14 31 37.02	+ 8.96	96 45 22.9	− 6.6	
11	W.	11 9.2	16 50.0	14 29 36.43	+ 8.60	96 28 0.8	− 9.6	
14	P.	10 55.5	16 36.2	14 27 39.71	+ 8.29	96 11 32.0	− 8.7	
15	W.	10 50.8	16 31.5	14 27 1.97	+ 8.33	96 6 16.5	− 6.2	
16	E.	10 46.3	16 26.9	14 26 24.92	+ 8.51	96 1 1.5	− 9.4	

CONCORDIA (58)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866. Sept. 14	T.	11 38.6	17 25.5	23 14 26.80	+ 18.58	96 2 10.4	− 87.3	B. J. 1868
27	N.	10 37.9	16 24.5	23 4 56.93	....	97 23 1.6	....	
1869. Apr. 7	T.	11 53.7	17 42.4	12 59 37.94	− 0.08	.. ..	....	B. J. 187[illegible]
13	F.	11 25.4	17 14.0	12 54 58.10	− 0.20	90 39 46.0	− 3.8	
14	T.	11 20.8	17 9.2	12 54 12.99	− 0.05	90 33 42.3	− 2.1	
22	N.	10 43.6	16 31.9	12 48 35.77	+ 0.22	89 49 30.6	− 3.8	
1870. Aug. 3	F.	11 33.2	17 20.5	20 23 21.05	− 0.11	104 47 21.8	+ 3.3	B. J. 1872
1875. Sept. 8	P.	13 2.4	18 48.9	0 13 55.53	− 0.57	90 45 56.8	+ 1.6	B. J. 1877
24	P.	11 47.4	17 34.1	0 1 48.98	− 0.43	92 34 7.0	+ 3.0	
27	F.	11 33.3	17 20.0	.. ..	....	92 54 12.1	+ 5.8	
Oct. 2	E.	11 9.8	16 56.4	23 55 38.79	− 0.54	93 26 23.9	+ 6.0	
5	Sk.	10 55.8	16 42.3	.. ..	....	93 44 35.7	+ 1.4	
1876. Dec. 15	E.	13 0.0	18 47.3	6 40 55.14	− 0.75	74 5 24.9	− 3.1	B. J. 1878
19	E.	12 40.6	18 28.1	6 37 18.30	− 0.87	74 [illegible] 1.5	− 3.7	
31	E.	11 42.0	17 29.6	6 25 49.45	− 0.68	73 45 52.6	− 2.1	
1882. Feb. 10	R.	13 26.8	19 14.9	10 51 40.21	− 3.66	83 44 55.1	− 14.4	B. J. 1884
27	R.	12 6.8	17 55.3	10 38 32.86	− 3.73	81 49 43.6	− 13.1	
1883. June 14	R.	12 51.6	18 39.5	18 24 20.28	+ 4.81	105 45 49.0	+ 3.7	B. J. 1885
22	R.	12 13.2	18 1.2	18 17 15.71	+ 5.10	105 51 32.5	+ 4.7	

ELPIS (59)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1867. Feb. 26	H.	13 25.6	19 10.7	11 52 4.82	+ 0.31	88 53 27.6	+ 2.8	B. J. 1869
27	T.	13 21.0	19 6.1	11 51 24.25	+ 0.08	88 46 25.5	+ 0.5	
Mar. 7	N.	12 43.7	18 29.0	11 45 38.68	+ 0.38	87 47 48.1	+ 1.0	
14	N.	12 10.9	17 56.2	11 40 16.15	+ 0.42	86 54 27.0	− 0.4	
28	N.	11 5.4	16 50.5	11 29 46.49	+ 0.31	85 11 36.4	+ 0.4	
29	H.	11 0.8	16 45.9	11 29 4.75	+ 0.26	85 4 46.5	− 0.7	
1868. June 15	N.	11 13.9	17 0.2	16 52 41.16	+ 0.44	99 14 30.6	+ 0.3	B. J. 1870
22	N.	10 40.6	16 26.8	16 47 0.83	+ 0.32	99 13 4.8	0.0	
1872. May 4	F.	11 23.5	17 8.5	14 17 2.35	+ 0.60	93 45 26.3	− 0.8	B. J. 1874
1873. July 22	F.	12 50.0	18 38.7	.. ..	....	97 39 9.4	+ 3.2	B. J. 1875
30	F.	12 12.3	18 1.2	20 47 53.17	+ 0.06	98 21 47.7	+ 3.3	

E L P I S—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1873.		h m	h m	h m s	s	° ′ ″	″	
Aug. 5	E.	11 43.8	17 32.8	20 42 59.94	+ 0.28	98 58 29.2	+ 2.4	
7	F.	11 34.4	17 23.4	20 41 22.94	+ 0.37	99 11 25.2	+ 2.7	
9	E.	11 24.9	17 13.9	20 39 47.05	+ 0.39	99 24 34.4	+ 2.9	
1874.								
Dec. 14	E.	12 11.9	18 0.3	5 46 41.45	+ 0.76	80 27 14.6	+ 0.8	B. J. 1876
15	F.	12 7.0	17 55.6	5 45 44.89	+ 0.80	80 27 19.7	− 0.1	
18	E.	11 22.4	17 21.0	5 42 55.03	+ 0.94	80 26 48.7	+ 0.8	
1876.								
Mar. 4	S.	13 17.1	19 1.9	12 10 30.90	+ 0.45	89 37 3.2	+ 1.4	B. J. 1878
5	P.	13 12.5	18 57.3	12 9 49.63	+ 0.47	89 29 49.1	+ 0.0	
6	E.	13 7.8	18 52.7	12 9 7.88	+ 0.68	89 22 32.6	+ 0.1	
9	P.	12 54.0	18 39.0	12 6 58.35	+ 0.52	89 0 22.1	+ 0.4	
21	P.	11 57.6	17 42.6	11 57 50.24	+ 0.24	87 29 29.5	+ 0.3	
31	F.	11 11.0	16 55.8	11 50 22.07	+ 0.52	86 17 11.5	+ 1.5	
Apr. 1	S.	11 6.3	16 51.1	11 49 39.71	+ 0.50	86 10 22.1	− 0.6	
4	F.	10 52.4	16 37.1	11 47 36.86	+ 0.65	85 50 41.1	+ 2.1	
1877.								
May 28	E.	13 11.4	18 57.7	17 36 59.74	+ 0.83	100 11 42.4	+ 0.2	B. J. 1879
31	P.	12 55.3	18 41.7	17 34 36.74	+ 0.21	100 5 4.0	− 0.4	
June 14	F.	11 48.3	17 35.0	17 22 33.72	+ 0.53	99 45 41.1	− 0.7	
19	S.	11 24.2	17 10.9	17 18 11.34	+ 0.53	99 43 55.0	− 0.5	
22	F.	11 9.9	16 56.5	17 15 37.58	+ 0.20	99 44 14.5	+ 1.0	
23	S.	11 5.1	16 51.7	17 14 47.77	+ 0.55	99 44 31.7	− 1.4	
1878.								
Oct. 25	E.	11 11.4	17 1.4	1 28 58.63	+ 0.78	89 46 28.0	− 0.4	Circ. B. J. No. 99
1881.								
Apr. 29	R.	12 12.1	17 57.3	14 45 15.71	+ 0.44	95 32 6.0	+ 2.1	B. J. 1883
1882.								
July 28	R.	12 59.0	18 47.9	21 26 6.82	+ 0.31	96 35 25.4	− 1.0	B. J. 1884
Aug. 8	W.	12 7.4	17 56.6	21 17 46.96	+ 0.53	97 43 18.8	− 1.5	
1883.								
Dec. 28	W.	11 36.3	17 24.5	6 5 27.57	+ 0.80	79 57 44.9	+ 2.1	B. J. 1885

ECHO (60)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.								
Apr. 9	N.	13 15.4	19 4.7	14 28 26.07	+ 0.03	102 36 56.6	+ 3.6	B. J. 1868
19	N.	12 27.1	18 16.5	14 19 25.34	+ 0.07	101 35 22.7	+ 5.2	
25	T.	11 57.8	17 47.1	14 13 45.06	+ 0.24	100 57 28.3	+ 2.2	
May 5	T.	11 9.4	16 58.5	14 4 38.16	− 0.27	99 57 32.9	+ 2.6	
14	N.	10 36.2	16 25.0	13 57 32.05	....	99 8 49.1	....	
1867.								
July 20	T.	12 44.2	18 31.5	20 38 20.72	+ 1.05	103 8 23.2	− 5.5	B. J. 1869
24	T.	12 24.8	18 12.2	20 34 35.92	+ 1.20	103 22 58.3	− 2.9	
25	N.	12 19.9	18 7.3	20 33 38.66	+ 1.20	103 26 48.3	− 0.1	
27	T.	12 10.1	17 57.5	20 31 43.13	+ 1.01	103 34 27.4	− 4.5	
29	N.	12 0.3	17 47.7	20 29 47.32	+ 1.18	103 42 26.4	+ 0.6	
30	H.	11 55.3	17 42.7	20 28 49.25	+ 1.19	103 46 22.6	− 3.6	
31	T.	11 50.5	17 37.9	20 27 51.06	+ 1.07	103 50 23.0	− 5.5	
Aug. 6	H.	11 21.1	17 8.5	20 22 6.88	+ 1.03	104 15 3.0	− 5.0	
1875.								
Sept. 24	P.	12 42.2	18 33.0	0 56 46.96	+ 1.84	83 38 12.1	− 11.9	B. J. 1877
Oct. 4	P.	11 54.3	17 45.4	0 48 12.39	+ 1.87	.. ..	....	
5	Sk.	11 49.5	17 40.7	0 47 18.61	+ 1.99	84 59 59.4	− 12.7	
7	F.	11 39.9	17 30.1	0 45 30.47	+ 1.98	85 15 33.7	− 11.9	
9	F.	11 30.2	17 20.4	0 43 42.28	+ 1.83	85 31 8.0	− 13.2	
12	F.	11 15.7	17 5.9	0 4 12.00	....	85 54 25.3	....	
1877.								
Mar. 30	F.	12 56.7	18 46.8	13 31 34.88	+ 1.26	98 49 13.3	+ 6.7	B. J. 1879
Apr. 5	P.	12 27.8	18 18.0	13 26 11.83	+ 1.20	98 6 37.7	+ 6.4	

ECHO—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1877.		h m	h m	h m s	s	° ′ ″	″	
Apr. 12	S.	11 53.8	17 43.9	13 19 45.71	+ 1.29	97 15 57.4	+ 4.2	
14	E.	11 44.1	17 34.1	13 17 56.87	+ 1.43	97 1 44.3	+ 7.0	
22	E.	11 5.9	16 55.7	13 11 3.26	+ 1.31	96 7 27.5	+ 6.3	
23	F.	11 1.0	16 50.7	.. ..	....	96 1 4.6	+ 4.0	

DANAE (61)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1868.								
Feb. 14	A.	12 25.5	18 17.1	.. ..	....	77 14 34.8	+ 2.0	B. J. 1870
18	A.	12 6.0	17 47.6	9 5 42.15	+ 1.06	76 13 12.6	0.0	
1870.								
July 30	F.	11 48.9	17 37.4	20 23 30.27	+ 9.35	.. ..	....	B. J. 1872
1876.								
Oct. 17	F.	12 35.0	18 22.0	2 23 26.97	— 1.89	48 48 48.1	— 3.7	B. J. 1878
18	S.	12 30.2	18 17.3	2 22 22.74	— 1.74	48 46 53.6	— 0.1	
27	P.	11 44.8	17 32.0	2 12 18.19	— 1.85	48 43 4.5	— 0.3	
Nov. 1	E.	11 19.4	17 6.5	2 6 38.86	— 1.57	48 51 30.6	— 0.7	
5	E.	10 59.3	16 46.4	2 2 14.59	— 1.73	49 3 17.4	— 2.3	
7	S.	10 49.3	16 36.4	2 0 7.02	— 1.61	49 10 46.3	— 1.2	
22	F.	9 37.1	15 23.6	1 46 48.03	....	50 32 36.9	....	
1878.								
Feb. 4	E.	11 48.6	17 30.6	8 49 22.36	— 0.46	60 47 31.0	+ 3.7	B. J. 1880
5	F.	11 43.6	17 25.6	8 48 20.32	— 0.33	60 48 17.9	+ 6.4	
6	S.	11 38.7	17 20.7	8 47 21.26	— 0.48	60 49 7.0	+ 3.9	
1879.								
Apr. 1	F.	11 14.1	16 55.7	11 54 33.32	— 0.59	104 55 43.8	+ 2.5	B. J. 1881
12	Pr.	10 21.9	16 3.2	11 45 41.83	— 0.61	104 22 56.5	+ 2.8	
1881.								
Oct. 11	W.	11 34.4	17 22.6	0 57 59.01	— 5.46	59 30 54.8	+ 38.3	B. J. 1883
20	E.	10 49.6	16 37.7	0 48 36.26	— 5.27	59 43 47.1	+ 39.9	
21	S.	10 44.6	16 32.7	0 47 36.87	— 5.41	59 46 21.2	+ 40.3	
22	R.	10 39.7	16 27.8	0 46 38.40	— 5.56	59 49 6.4	+ 39.6	
25	S.	10 25.2	16 13.2	0 43 49.97	— 5.37	59 58 28.7	+ 36.9	
26	R.	10 20.4	16 8.4	0 42 55.90	— 5.57	60 2 0.9	+ 40.2	

ERATO (62)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1877.								
Nov. 12	E.	11 46.9	17 35.5	3 16 29.01	+ 0.34	75 24 64.2	— 2.9	B. J. 1879
13	F.	11 42.0	17 30.5	3 15 38.79	+ 0.10	75 27 43.4	— 0.2	
16	E.	11 27.8	17 16.3	3 13 10.13	+ 0.45	75 36 19.0	— 1.1	
19	P.	11 13.6	17 2.1	3 10 43.70	+ 0.17	75 44 30.2	— 1.7	
20	E.	11 8.8	16 57.2	3 9 56.15	+ 0.44	75 47 6.9	— 2.4	

AUSONIA (63)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.								
Sept. 21	T.	12 54.7	18 44.6	0 58 8.79	+ 0.09	78 12 19.0	+ 4.7	B. J. 1868
22	N.	12 49.9	18 39.8	0 57 13.10	+ 0.17	78 14 52.9	+ 2.3	
24	N.	12 40.1	18 30.0	0 55 19.11	+ 0.03	78 20 30.3	+ 1.4	
27	N.	12 25.4	18 15.4	0 52 23.60	+ 0.17	78 30 1.0	+ 3.0	
Oct. 13	R.	11 6.4	16 56.0	0 36 27.75	+ 0.18	79 35 20.8	+ 4.0	
15	N.	10 56.7	16 46.4	0 34 35.66	+ 0.18	79 44 22.3	+ 3.3	
16	R.	10 52.0	16 41.7	0 33 41.07	+ 0.33	79 48 54.5	+ 4.2	
17	H.	10 47.2	16 36.9	0 32 47.17	+ 0.22	79 53 25.3	+ 4.4	

AUSONIA—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1872.		h m	h m	h m s	s	° ′ ″	″	
Feb. 26	F.	11 27.2	17 16.2	9 52 38.56	+ 0.32	75 45 15.6	+ 5.1	B. J. 1874
Mar. 5	F.	10 48.1	16 37.0	9 44 53.30	− 0.01	75 26 17.1	+ 3.3	
1873.								
Aug. 5	E.	11 58.7	17 51.0	20 57 59.16	+ 0.63	112 11 11.4	+ 22.1	B. J. 1875
9	E.	11 39.0	17 31.2	20 53 51.53	+ 0.72	112 12 12.9	+ 20.5	
1876.								
Mar. 9	P.	13 10.1	19 0.3	12 23 13.07	+ 19.88	94 36 1.4	+ 35.2	B. J. 1878
21	P.	12 11.6	18 2.2	12 11 48.38	+ 19.79	96 3 31.9	+ 44.1	
31	F.	11 22.2	17 12.9	12 1 44.49	+ 19.03	95 27 3.1	+ 51.8	
Apr. 1	S.	11 17.3	17 8.0	12 0 45.68	+ 18.74	95 23 12.6	+ 51.7	
4	F.	11 2.7	16 53.4	11 57 54.23	+ 18.71	95 11 44.9	+ 54.5	
5	S.	10 57.8	16 48.4	11 56 58.46	+ 18.46	95 7 54.4	+ 52.4	
6	P.	10 53.0	16 43.6	11 56 3.71	+ 18.32	95 4 7.1	+ 52.0	
8	F.	10 43.3	16 33.9	11 54 17.38	+ 18.21	94 56 39.5	+ 52.1	
10	P.	10 33.8	16 24.4	11 52 35.07	+ 17.71	94 49 23.0	− 52.7	

ANGELINA (64)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.								
May 14	N.	12 55.2	18 42.0	16 26 6.55	− 1.04	113 37 40.0	+ 5.7	B. J. 1868
15	R.	12 50.3	18 37.1	16 25 12.28	− 1.25	113 35 38.9	+ 3.2	
22	H.	12 16.3	18 3.2	16 18 40.08	− 1.48	113 20 14.7	+ 4.5	
June 11	N.	10 39.5	16 26.0	16 0 29.95	− 1.16	112 27 3.9	+ 1.2	
1867.								
Aug. 6	H.	13 8.5	18 53.8	22 9 48.75	+ 0.31	100 50 14.3	− 2.0	B. J. 1869
23	H.	11 47.7	17 33.2	21 55 42.19	+ 0.37	102 0 3.5	− 2.8	
Sept. 4	T.	10 50.6	16 35.9	21 45 50.72	+ 0.40	102 47 43.2	− 3.2	
5	H.	10 46.0	16 31.3	21 45 5.11	+ 0.47	102 51 20.9	− 3.4	
1874.								
Feb. 11	S.	12 59.6	18 49.8	10 28 6.71	+ 0.02	81 11 32.4	− 1.9	B. J. 1876
1876.								
Aug. 26	F.	12 51.0	18 36.7	23 14 16.24	+ 0.32	93 45 12.5	− 6.0	B. J. 1878
28	E.	12 41.6	18 27.3	23 12 42.11	+ 0.36	93 54 16.3	− 3.0	

CYBELE (65)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1867.								
Feb. 6	T.	13 38.8	19 19.6	10 46 30.91	− 0.10	82 38 42.6	+ 0.3	B. J. 1869
21	N.	12 30.1	18 11.5	10 36 56.54	+ 0.03	81 29 29.2	− 1.2	
22	H.	12 25.5	18 6.9	10 36 14.86	− 0.18	81 24 31.1	− 4.2	
26	H.	12 7.2	17 48.7	10 33 27.75	− 0.03	81 4 46.8	− 1.5	
27	T.	12 2.6	17 44.1	10 32 45.72	− 0.11	80 59 50.1	− 1.1	
Mar. 7	N.	11 25.5	17 7.0	10 27 14.80	+ 0.16	80 20 55.4	− 0.3	
1868.								
May 11	N.	12 14.0	17 59.1	15 35 0.20	+ 0.56	104 7 41.9	+ 9.9	B. J. 1870
26	A.	11 4.1	16 49.1	15 24 5.71	+ 0.60	103 26 0.7	+ 5.0	
1876.								
Sept. 27	F.	12 5.0	17 46.1	.. ..	....	88 51 43.3	− 3.4	B. J. 1878
Oct. 3	P.	11 37.3	17 18.3	0 30 10.96	+ 1.44	89 21 27.1	− 6.7	
12	P.	10 56.1	16 36.8	0 24 23.47	+ 1.41	90 3 30.0	− 7.4	
13	F.	10 51.6	16 32.3	0 23 46.84	+ 1.51	90 7 54.1	− 5.6	
17	F.	10 33.5	16 14.0	0 21 25.45	+ 1.59	90 24 36.1	− 6.4	
18	S.	10 29.1	16 9.5	0 20 51.45	+ 1.42	90 28 34.0	− 6.6	

ASIA (67)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
		h m	h m	h m s	s	° ′ ″	″	
1866.								
Dec. 4	R.	12 45.9	18 33.5	5 41 4.85	− 0.71	74 34 38.6	+ 2.6	A. N. No. 1614
5	N.	12 40.9	18 28.5	5 40 3.62	− 0.47	74 36 45.4	− 1.4	
8	T.	12 26.0	18 13.6	5 36 56.22	− 0.55	74 42 57.5	− 1.4	
10	R.	12 16.0	18 3.6	5 34 49.46	− 0.76	74 46 54.0	+ 4.4	
12	R.	12 6.0	17 53.6	5 32 41.99	− 1.03	74 50 31.4	+ 5.9	
1872.								
Apr. 10	F.	11 15.7	17 4.9	12 34 26.00	− 3.13	95 14 3.3	− 12.7	B. J. 1874
11	S.	11 10.9	17 0.1	12 33 35.30	− 2.94	95 5 51.2	− 12.9	
13	E.	11 1.3	16 50.5	12 31 55.31	− 2.96	94 49 38.5	− 12.5	
1873.								
Oct. 8	E.	11 55.6	17 47.4	1 7 9.36	− 2.48	81 45 57.6	+ 7.4	B. J. 1875
1876.								
Apr. 18	P.	13 4.7	18 55.4	14 55 23.82	− 4.08	103 44 58.9	− 14.2	B. J. 1878
22	P.	12 45.7	18 36.6	14 52 12.58	− 4.32	... .	....	
25	S.	12 31.4	18 22.4	14 49 40.18	− 3.97	102 54 20.1	− 13.3	
26	P.	12 26.6	18 17.6	14 48 47.57	− 4.23	102 46 51.0	− 14.2	
May 3	S.	11 52.8	17 44.0	14 42 29.04	− 4.21	101 54 0.0	− 13.9	
4	P.	11 48.0	17 39.2	14 41 34.20	− 4.17	101 46 27.2	− 14.5	
13	E.	11 4.5	16 55.7	14 33 30.68	− 3.97	100 40 51.9	− 12.4	

LETO (68)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.								
May 7	N.	13 28.8	19 15.5	16 32 26.45	+ 11.57	115 35 40.5	+ 54.1	B. J. 1868
19	T.	12 31.5	18 18.7	16 21 51.73	+ 11.71	115 50 46.7	+ 57.7	
24	N.	12 6.4	17 53.8	16 13 55.39	+ 11.81	115 54 3.3	+ 58.9	
29	H.	11 41.7	17 29.2	16 11 51.74	+ 11.73	115 55 36.1	+ 61.2	
30	T.	11 36.8	17 24.3	16 10 50.82	+ 11.66	115 55 46.3	+ 65.2	
1867.								
Oct. 17	H.	12 28.6	18 19.0	2 13 32.17	− 0.03	80 14 22.4	+ 53.8	B. J. 1869
18	A.	12 23.7	18 14.1	2 12 35.70	+ 0.05	80 15 16.6	+ 52.5	
19	T.	12 18.8	18 9.2	2 11 38.61	+ 0.01	80 16 13.7	+ 53.5	
23	H.	11 59.2	17 49.6	2 7 46.92	− 0.09	80 19 58.9	+ 53.8	
26	H.	11 44.6	17 35.0	2 4 51.93	− 0.19	80 22 41.0	+ 55.5	
31	H.	11 20.2	17 10.5	2 0 4.64	− 0.11	80 26 31.9	+ 54.8	
Nov. 1	A.	11 15.2	17 5.5	1 59 8.65	+ 0.02	80 27 9.3	+ 54.7	
2	H.	11 10.4	17 0.7	1 58 13.09	− 0.04	80 27 45.3	+ 55.9	
5	A.	10 55.9	16 46.0	1 55 31.34	+ 0.26	80 29 6.9	+ 55.4	
6	T.	10 51.0	16 41.1	1 54 38.79	− 0.01	80 29 26.2	+ 55.6	
8	A.	10 41.4	16 31.4	1 52 57.13	+ 0.02	80 29 52.2	+ 56.9	
1869.								
Jan. 20	N.	13 8.3	18 51.9	9 11 2.29	+ 2.27	61 48 41.0	+ 45.2	B. J. 1871
Feb. 11	N.	11 21.0	17 4.3	8 50 3.79	+ 2.80	60 29 15.3	+ 44.9	
13	T.	11 11.4	16 54.6	8 42 41.20	+ 3.10	60 25 17.2	+ 43.3	
1874.								
Feb. 18	F.	12 17.0	18 29.6	10 43 7.83	+ 1.44	70 14 57.6	+ 21.6	B. J. 1876
1884.								
Apr. 17	P.	.. ....	.. ....	13 16 29.21	....	93 10 45.2	....	
18	W.	.. ....	.. ....	13 15 38.94	....	93 7 47.8	....	
26	W.	.. ....	.. ....	13 9 8.18	....	92 46 41.4	....	
1886.								
Dec. 20	W.	11 26.5	17 13.4	5 25 8.84	+ 5.62	58 50 5.4	− 25.7	MS. Eph. by Luther
21	E.	11 21.4	17 8.3	5 24 5.01	+ 5.75	58 49 35.5	− 27.3	

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
HESPERIA (69)								
		h m	h m	h m s	s	° ′ ″	″	
1868. July 18	T.	12 14.9	17 56.4	20 4 1.90	− 1.83	99 8 16.9	+ 7.9	B. J. 1870
22	T.	11 56.0	17 37.5	20 0 56.58	− 1.61	99 20 1.4	+ 3.8	
25	T.	11 42.0	17 23.5	19 58 37.52	− 1.85	99 29 38.4	+ 6.9	
Aug. 15	T.	10 4.9	15 45.8	19 44 6.17	− 1.48	100 47 28.2	+ 5.4	
1873. July 11	F.	12 8.7	17 49.9	19 29 26.77	− 0.20	100 11 38.8	− 1.2	B. J. 1875
22	F.	11 16.9	16 58.0	19 20 55.38	− 0.02	100 38 20.5	− 2.1	
24	E.	11 7.6	16 48.6	19 19 25.70	− 0.07	100 44 2.1	+ 2.5	
30	F.	10 39.8	16 20.7	19 5 9.24	+ 0.03	101 2 0.0	+ 1.5	
1876. Jan. 14	E.	11 22.4	17 11.6	6 58 26.02	− 0.09	80 55 7.5	+ 0.2	B. J. 1878
21	P.	10 49.5	16 38.6	6 53 2.51	+ 0.04	80 30 19.3	0.0	
25	P.	10 31.2	16 20.2	6 50 19.08	....	80 13 56.4	...	
PANOPEA (70)								
1866. Sept. 14	T.	12 55.1	18 46.0	0 30 55.82	− 0.18	104 4 9.4	+ 0.4	B. J. 1868
15	R.	12 50.3	18 41.2	0 29 58.28	− 0.20	104 6 50.0	+ 5.3	
27	N.	11 51.0	17 41.8	0 17 58.06	+ 0.07	104 24 37.2	+ 5.0	
Oct. 5	H.	11 11.6	17 2.1	0 10 10.43	+ 0.03	104 20 14.2	+ 5.2	
6	N.	11 6.8	16 57.3	0 9 15.24	+ 0.16	104 18 38.4	+ 4.0	
8	N.	10 57.1	16 47.5	0 7 27.26	− 0.08	104 14 51.8	+ 3.3	
1869. Mar. 15	N.	12 30.3	18 16.8	12 5 45.63	+ 0.94	74 57 44.7	+ 2.3	B. J. 1871
NIOBE (71)								
1866. Sept. 21	T.	11 42.4	17 26.1	23 45 49.31	+ 35.24	62 58 58.9	− 349.4	B. J. 1868
22	N.	11 37.5	17 21.2	23 44 47.78	+ 35.19	63 0 26.1	− 355.2	
24	N.	11 27.5	17 11.2	23 42 45.34	+ 35.18	63 4 11.1	− 356.4	
27	N.	11 12.7	16 56.4	23 39 43.81	+ 35.18	63 11 28.0	− 357.1	
Oct. 3	H.	10 43.3	16 26.9	23 33 53.26	+ 34.51	63 31 20.8	− 365.3	
5	H.	10 33.5	16 17.1	23 32 1.81	+ 34.20	63 39 31.3	− 362.1	
6	N.	10 28.7	16 12.3	23 31 7.33	+ 34.03	63 43 44.9	− 366.8	
8	N.	10 19.0	16 2.5	23 29 21.44	+ 34.01	63 52 50.7	− 364.7	
1867. Dec. 26	H.	10 26.2	16 9.8	4 46 49.13	+ 1.13	40 11 8.7	+ 26.3	B. J. 1869
1869. Feb. 20	T.	13 21.7	19 10.9	11 26 33.47	− 0.99	109 20 59.2	− 27.5	B. J. 1871
27	T.	12 46.6	18 36.1	11 19 2.83	− 1.20	110 16 46.2	− 29.0	
1875. Sept. 3	F.	12 29.8	18 14.1	23 21 38.69	+ 1.04	71 11 12.4	− 3.2	B. J. 1877
8	P.	12 5.2	17 49.6	23 16 35.47	+ 1.06	71 8 59.2	− 0.5	
14	P.	11 35.5	17 19.9	23 10 28.81	+ 1.05	71 13 3.7	− 3.0	
20	P.	11 6.0	16 50.3	23 4 30.32	+ 0.96	71 23 59.8	− 2.1	
24	P.	10 46.1	16 30.7	23 0 41.72	....	71 34 38.2	....	
1876. Nov. 24	S.	11 51.5	17 34.3	4 9 22.68	+ 0.80	37 25 9.5	+ 27.5	B. J. 1878
27	S.	11 35.6	17 18.5	4 5 18.95	+ 1.03	37 36 0.2	+ 27.3	
Dec. 3	E.	11 4.1	16 47.0	3 57 21.21	+ 0.86	38 5 25.3	+ 28.1	
5	S.	10 53.6	16 36.5	3 54 47.71	+ 0.73	38 17 24.3	+ 28.8	
7	E.	10 43.3	16 26.2	3 52 18.79	+ 1.10	38 20 22.3	+ 27.2	
12	F.	10 17.8	16 0.6	3 46 27.66	+ 1.13	39 7 1.6	+ 30.3	
15	E.	10 2.9	15 45.7	3 43 15.20	+ 1.04	39 31 26.0	+ 28.6	
1878. Feb. 18	S.	12 23.6	18 12.8	10 19 22.43	− 3.47	93 18 32.4	− 51.0	B. J. 1880

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
NIOBE—Continued.								
1878		h m	h m	h m s	s	° ′ ″	″	
Feb. 26	S.	11 42.2	17 31.5	10 9 42.96	− 3.46	93 49 50.1	− 55.3	
28	E.	11 31.9	17 21.2	10 7 19.09	− 3.18	93 56 18.3	− 52.1	
Mar. 1	F.	11 26.7	17 16.0	10 6 7.43	− 3.33	93 59 17.6	− 53.0	
4	E.	11 11.3	17 0.6	10 2 36.36	− 3.14	94 7 30.6	− 54.5	
13	F.	10 26.3	16 15.5	9 52 50.35	− 2.99	94 26 10.7	− 52.7	
1880.								
Oct. 20	E.	10 42.6	16 25.1	0 42 28.73	− 0.25	51 1 55.1	+ 24.3	B. J. 1882
23	W.	10 27.8	16 10.2	0 39 31.78	+ 0.22	51 17 33.2	+ 25.4	
1885.								
Nov. 12	E.	11 40.0	17 22.3	3 9 51.93	− 5.90	38 36 56.0	+ 44.4	B. J. 1887
16	E.	11 19.2	17 1.6	3 4 45.86	− 5.45	38 52 2.5	+ 43.1	
FERONIA (72)								
1866.								
Dec. 4	R.	13 27.2	19 16.5	6 22 14.43	− 2.91	74 7 35.1	+ 8.4	A. N. No. 1617
5	N.	13 22.1	19 11.4	6 21 17.51	− 2.73	74 9 26.6	+ 3.6	
8	T.	13 7.3	18 56.7	6 18 18.41	− 3.45	74 14 47.2	− 2.0	
1874.								
Jan. 16	E.	11 52.2	17 41.1	7 17 56.38	− 4.10	76 34 39.9	− 6.0	B. J. 1876
1876.								
Nov. 5	E.	13 18.9	19 9.2	4 22 10.50	+ 58.68	.. ..	....	
22	F.	11 54.6	17 45.1	4 4 43.56	+ 60.21	74 29 49.3	− 101.8	B. J. 1878
24	S.	11 44.7	17 35.2	4 2 33.74	+ 60.16	74 39 58.1	− 105.3	
Dec. 3	E.	10 59.9	16 50.1	3 53 12.06	+ 58.66	75 22 6.7	− 109.7	
CLYTIE (73)								
1881.								
Aug. 27	R.	12 27.3	18 15.5	22 53 39.00	− 0.50	99 4 50.9	− 3.8	B. J. 1883
GALATEA (74)								
1866.								
June 11	N.	12 20.7	18 8.0	17 41 52.33	+ 7.52	107 39 25.8	− 11.7	B. J. 1868
16	T.	11 56.3	17 43.7	17 37 13.26	+ 7.56	107 33 1.5	− 7.9	
18	N.	11 46.5	17 34.0	17 35 20.35	+ 7.30	107 30 43.6	− 4.7	
19	R.	11 41.6	17 29.1	17 34 24.64	+ 7.91	107 29 31.6	− 9.4	
1876.								
Sept. 27	F.	12 32.9	18 25.3	1 2 19.44	− 2.04	82 28 51.4	+ 11.8	B. J. 1878
28	S.	12 28.4	18 20.8	1 1 39.78	− 2.19	82 35 49.1	+ 10.4	
29	P.	12 23.8	18 16.2	1 0 59.65	− 2.19	82 42 55.2	+ 12.1	
Oct. 3	P.	12 5.2	17 57.7	0 58 14.64	− 2.01	83 11 55.6	+ 13.1	
12	P.	11 23.5	17 15.9	0 51 56.10	− 2.07	84 18 35.3	+ 11.4	
13	F.	11 19.0	17 11.4	0 51 15.49	− 1.82	84 25 53.5	+ 11.6	
17	F.	11 0.6	16 52.9	0 48 38.11	− 1.85	84 54 21.3	+ 10.0	
18	S.	10 56.1	16 48.4	0 48 0.67	− 1.85	85 1 18.8	+ 13.8	
27	P.	10 15.9	16 7.9	0 43 11.65	− 1.89	85 57 18.3	+ 10.9	

EURYDICE (75)

Date.	Observer.	Washington Mean Time.		Berlin Mean Time Corrected for Aberration.		Apparent Right Ascension of Center.			Correction to Ephemeris.	Geocentric N. P. Distance of Center.			Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.		h	m	h	m	h	m	s	s	°	′	″	″	
June 25	N.	13	11.5	19	4.6	19	28	9.21	....	121	35	41.8	....	A. N. No. 1585
July 2	N.	12	38.1	18	31.4	19	22	21.93	+ 7.09	121	53	11.8	— 8.6	
5	N.	12	23.5	18	16.9	19	19	36.47	+ 7.16	121	58	53.2	— 6.0	
6	R.	12	18.7	18	12.1	19	18	39.58	+ 7.04	122	0	29.2	— 5.0	
11	T.	11	54.2	17	47.7	..	..	.....	....	122	5	59.7	— 5.1	
12	R.	11	49.3	17	42.8	19	12	50.07	+ 7.11	122	6	36.7	— 3.7	
14	T.	11	39.5	17	33.0	19	10	52.67	+ 6.85	122	7	16.1	— 2.7	
1875.														
Sept. 3	F.	13	13.2	19	7.6	0	4	41.80	+ 1.16	91	24	41.4	— 7.7	B. J. 1877
4	P.	13	8.2	19	2.7	0	4	1.21	+ 1.10	91	24	10.8	— 8.0	
7	F.	12	54.3	18	48.8	0	1	52.12	+ 0.97	91	23	9.6	— 8.4	
8	P.	12	49.6	18	44.1	0	1	6.99	+ 1.01	91	22	58.0	— 8.9	
14	P.	12	21.2	18	15.7	23	56	19.39	+ 0.94	91	23	0.1	— 8.9	
20	P.	11	52.7	17	47.2	23	51	17.60	+ 0.99	91	24	4.7	— 8.8	
24	P.	11	33.6	17	28.0	23	47	58.32	+ 0.80	91	24	44.0	— 8.4	
Oct. 2	E.	10	56.1	16	50.3	23	41	53.13	+ 1.01	91	23	58.8	— 7.4	
5	Sk.	10	42.2	16	36.3	23	39	54.61	+ 0.98	91	22	27.1	— 8.6	
7	F.	10	33.3	16	24.3	23	38	42.87	+ 1.03	91	20	59.7	— 6.6	
9	P.	10	24.3	16	18.2	23	37	37.16	+ 0.81	91	19	2.3	— 9.7	
FREIA (76)														
1867.														
Aug. 6	H.	11	28.8	17	7.1	20	29	45.93	+ 1.45	106	11	57.0	— 7.2	A. N. No. 1650
1875.														
Dec. 17	E.	10	38.6	16	24.5	4	23	59.74	— 15.99	70	26	42.3	+ 34.4 (?)	B. J. 1877
19	Sk.	10	29.3	16	15.4	4	22	35.74	.....	70	30	25.1	....	
20	P.	10	24.7	16	10.8	4	21	54.76	.....	70	32	12.2	....	
1881.														
Oct. 22	R.	12	42.6	18	27.6	2	49	48.70	— 5.04	74	6	31.6	+ 25.6	B. J. 1883
26	R.	12	24.2	18	19.3	2	46	58.35	— 4.98	74	21	59.7	+ 25.6	
Nov. 15	R.	10	50.5	16	35.7	2	32	2.73	— 4.97	75	44	37.4	+ 30.5	
FRIGGA (77)														
1879.														
Aug. 21	E.	11	1.8	16	49.5	21	2	13.50	.....	109	42	11.0	....	
22	P.	10	57.1	16	44.8	21	1	22.67	.....	109	44	39.6	....	
Sept. 3	Pr.	10	1.1	15	48.8	20	52	28.60	.....	110	7	1.5	....	
10	P.	..	....	..	....	20	48	41.96	.....	110	12	52.2	....	Parallax not applied.
11	Pr.	..	....	..	....	20	48	15.57	.....	110	13	14.8	....	
15	Pr.	..	....	..	....	20	46	45.28	.....	110	13	50.1	....	
16	F.	..	....	..	....	20	46	26.73	.....	110	13	41.4	....	
17	S.	..	....	..	....	20	46	9.94	.....	110	13	24.1	....	
1884.														
Nov. 5	E.	11	3.3	16	53.9	2	6	25.51	— 11.97	74	29	15.0	+ 71.8	B. J. 1866
7	P.	10	53.7	16	44.2	2	4	41.12	— 12.08	74	36	41.6	+ 72.5	
8	W.	10	48.9	16	39.4	2	3	50.43	— 11.77	74	40	25.6	+ 75.0	
10	S.	10	39.4	16	29.9	2	2	11.01	— 11.84	74	47	39.2	+ 70.7	
11	P.	10	34.7	16	25.1	2	1	22.60	— 12.04	74	51	16.5	+ 72.4	

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
DIANA (78)								
		h m	h m	h m s	s	° ′ ″	″	
1874.								
Nov. 3	Sk.	11 59.6	17 49.6	2 52 40.92	+ 4.77	58 49 56.1	− 32.4	B. J. 1876
6	S.	11 44.5	17 34.6	2 49 24.07	+ 4.76	58 55 36.0	− 30.7	
12	E.	11 14.4	17 4.6	2 42 47.33	+ 4.72	59 12 43.0	− 26.9	
14	S.	11 4.3	16 54.6	2 40 37.08	+ 4.85	59 19 55.3	− 31.9	
16	E.	10 54.3	16 44.6	2 38 29.22	+ 5.04	59 27 56.1	− 28.2	
25	F.	10 10.1	16 0.3	2 29 39.88	+ 4.70	60 10 51.7	− 26.6	
28	E.	9 55.8	15 45.9	2 27 7.14	+ 4.75	60 26 57.4	− 29.2	
1876.								
Apr. 10	P.	12 56.5	18 45.2	14 15 40.20	− 1.76	116 20 40.3	− 9.3	B. J. 1878
19	E.	12 12.0	18 0.8	14 6 38.16	− 1.47	116 3 50.4	− 7.8	
22	P.	11 57.1	17 45.9	14 3 32.60	− 1.76	115 54 43.2	− 8.8	
26	P.	11 37.4	17 26.1	13 59 28.17	− 1.58	115 40 33.9	− 6.8	
May 3	S.	11 3.1	16 51.7	13 52 40.77	− 1.33	115 10 46.4	− 10.1	
4	P.	10 58.3	16 46.8	13 51 45.52	− 1.57	115 6 9.1	− 8.9	
13	E.	10 15.4	16 3.5	13 44 20.88	− 1.23	114 21 49.7	− 9.1	
1880.								
Apr. 9	P.	10 34.0	16 24.5	11 48 58.58	− 7.97	98 11 51.2	− 68.5	B. J. 1882
1884.								
Feb. 21	P.	11 25.4	17 18.0	9 31 26.86	− 251.46	72 57 13.3	− 30 34.4	Circ. B. J. No. 221
EURYNOME (79)								
1866.								
June 4	N.	12 36.2	18 23.1	17 29 56.81	− 12.33	107 30 24.3	− 0.2	A. N. No. 1585
13	H.	11 51.9	17 39.0	17 21 1.74	− 12.30	107 12 36.0	− 1.9	
16	T.	11 37.2	17 24.3	17 18 1.46	− 12.39	107 7 11.9	− 5.4	
18	N.	11 27.3	17 14.4	17 16 2.52	− 12.24	107 3 51.9	− 3.4	
20	T.	11 17.5	17 4.6	17 14 4.63	− 12.45	107 0 39.9	− 3.7	
21	N.	11 12.6	16 59.7	17 13 6.93	− 12.00	106 59 10.6	− 1.3	
25	N.	10 53.1	16 40.1	.. ..	.....	106 53 29.6	− 5.1	
1867.								
Nov. 5	A.	12 42.6	18 36.2	3 42 31.24	− 13.96	74 3 8.3	+ 34.9	B. J. 1869
6	T.	12 37.8	18 31.4	3 41 42.65	− 14.11	74 9 48.2	+ 37.0	
18	H.	11 40.2	17 33.9	.. ..	.....	75 28 54.2	+ 37.6	
19	A.	11 35.5	17 29.2	3 30 21.23	− 13.92	75 35 15.2	+ 41.0	
26	A.	11 2.0	16 55.5	3 24 23.18	− 13.52	76 16 23.9	+ 38.9	
Dec. 2	H.	10 33.9	16 27.2	3 19 54.37	− 13.16	76 46 16.4	+ 37.6	
1869.								
Apr. 7	T.	11 38.2	17 24.8	12 44 5.24	− 12.52	96 21 14.6	− 79.2	B. J. 1871
14	T.	11 4.9	16 51.3	12 38 15.59	− 12.19	95 33 1.2	− 73.7	
22	N.	10 27.4	16 13.5	12 30 20.35	− 11.44	.. ..	....	
1874.								
July 15	E.	12 21.3	18 10.7	19 56 48.66	− 1.63	102 50 39.7	+ 6.9	B. J. 1876
1885.								
June 11	W.	11 11.3	16 57.9	16 33 51.30	+ 1.31	106 41 48.7	− 2.2	Circ. B. J. No. 250
12	P.	11 6.4	16 53.0	16 32 54.48	+ 0.97	106 39 14.2	− 3.6	
19	P.	10 32.7	16 19.1	16 26 39.01	+ 0.99	106 22 56.4	− 4.3	

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SAPPHO (80)								
1867.		h m	h m	h m s	s	° ′ ″	″	
Mar. 25	N.	12 25.3	18 12.8	12 38 7.84	+ 8.16	101 7 17.0	+ 44.0	B. J. 1869
28	N.	12 10.8	17 58.3	12 35 24.86	+ 8.16	100 43 34.2	+ 44.5	
Apr. 2	H.	11 46.6	17 34.2	12 31 51.08	+ 7.93	100 2 7.6	+ 45.7	
3	T.	11 41.8	17 29.4	12 29 56.79	+ 8.07	99 53 34.9	+ 43.6	
5	H.	11 32.1	17 19.7	12 28 8.53	+ 7.89	99 36 24.1	+ 43.4	
6	T.	11 27.2	17 14.8	12 27 14.99	+ 7.85	99 27 43.7	+ 41.7	
1868.								
Aug. 26	T.	12 13.5	18 8.2	22 36 25.06	+ 10.06	81 21 28.4	— 39.6	B. J. 1870.
1882.								
Sept. 15	W.	12 33.8	18 28.5	0 14 6.93	+ 26.51	75 53 41.1	— 103.7	B. J. 1884
1889.								
Sept. 21	S.	.. ....	.. ....	1 7 9.29	.....	73 24 9.5	....	Data for parallax derived from Approx. Eph. by Bryant.
27	S.	.. ....	.. ....	1 3 36.33	.....	74 22 34.3	....	
Oct. 2	S.	.. ....	.. ....	1 0 15.11	.....	75 18 51.1	....	
17	S.	.. ....	.. ....	0 50 1.95	.....	78 30 22.7	....	
TERPSICHORE (81)								
1866.								
Feb. 16	H.	12 14.9	18 1.5	10 12 46.80	— 3.77	71 36 2.4	— 20.7	B. J. 1868
1874.								
Nov. 16	E.	12 36.8	18 27.7	4 21 15.63	— 20.65	56 18 0.6	— 29.6	B. J. 1876
Dec. 4	F.	11 7.4	16 58.3	4 2 35.54	— 20.79	56 22 2.3	— 21.0	
5	Sk.	11 2.5	16 53.4	4 1 36.08	— 20.74	56 24 3.5	— 16.3	
7	F.	10 52.7	16 43.6	3 59 39.88	— 20.90	56 28 29.5	— 13.8	
8	S.	10 47.8	16 38.6	3 58 43.52	— 20.95	56 30 57.5	— 9.7	
9	Sk.	10 42.9	16 33.7	3 57 48.69	— 20.73	56 33 34.4	— 4.7	
ALCMENE (82)								
1866.								
Apr. 19	N.	13 10.5	18 58.7	15 2 59.74	+ 7.33	108 27 6.0	+ 35.6	B. J. 1868
May 2	T.	12 7.6	17 55.9	14 51 10.05	+ 7.34	... .	....	
3	R.	12 2.7	17 51.0	14 50 13.50	+ 7.10	107 49 20.0	+ 38.4	
5	T.	11 53.2	17 41.2	14 48 21.62	+ 7.52	107 43 11.4	+ 37.9	
7	N.	11 43.2	17 31.4	14 46 30.05	+ 7.40	107 36 58.9	+ 38.3	
21	N.	10 36.3	16 24.0	14 34 34.22	....	106 54 19.5	....	
1867.								
July 24	T.	12 4.1	17 46.6	20 13 54.39	— 13.19	114 4 20.3	+ 36.1	B. J. 1869
27	T.	11 49.7	17 32.2	20 11 12.64	— 13.45	114 12 10.2	+ 37.9	
29	N.	11 40.0	17 22.4	20 9 25.99	— 13.10	114 17 4.0	+ 37.0	
Aug. 3	T.	11 16.1	16 58.4	20 5 3.71	— 13.27	114 28 10.3	+ 34.9	
6	H.	11 1.6	16 43.8	20 2 31.94	— 13.48	114 34 0.5	+ 34.3	
1875.								
Apr. 5	E.	12 23.7	18 13.7	13 20 7.58	+ 0.67	97 44 48.9	+ 3.3	B. J. 1877
BEATRIX (83)								
1876.								
Feb. 2	P.	13 8.4	18 59.2	9 59 36.44	+ 0.23	69 9 55.6	+ 3.0	B. J. 1878
4	F.	12 58.7	18 49.6	9 57 41.81	+ 0.45	69 0 10.1	+ 1.0	
17	S.	11 54.3	17 45.3	9 44 21.04	+ 0.32	68 5 39.7	+ 3.8	
18	P.	11 49.3	17 40.3	9 43 18.65	+ 0.19	68 2 19.7	+ 2.3	
19	E.	11 44.4	17 35.4	9 42 17.04	+ 0.25	67 59 10.3	+ 1.9	
Mar. 3	F.	10 41.0	16 31.6	9 30 6.79	+ 0.61	67 34 31.9	+ 3.5	
4	S.	10 36.4	16 27.0	9 29 18.83	+ 0.35	67 33 56.0	+ 1.6	
5	P.	10 31.7	16 22.3	9 28 32.64	+ 0.30	67 33 31.9	+ 0.6	

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
				CLIO (84)				
1867.		h m	h m	h m s	s	° ′ ″	″	
Jan. 15	H.	13 29.6	19 16.2	9 10 19.63	+ 6.62	68 32 57.6	+ 31.4	B. J. 1869
24	N.	12 44.3	18 31.0	9 0 33.15	+ 6.82	68 12 56.1	+ 34.3	
29	H.	12 18.9	18 5.6	8 54 50.75	+ 6.64	68 3 21.3	+ 33.8	
31	N.	12 8.8	17 55.5	8 52 33.71	+ 7.05	68 0 3.1	+ 36.9	
Feb. 6	T.	11 38.4	17 24.9	8 45 46.78	+ 6.51	67 51 57.4	+ 37.4	
7	N.	11 33.4	17 19.9	8 44 41.03	+ 6.82	67 50 52.1	+ 34.3	
12	H.	11 8.5	16 54.8	.. ..	+	67 46 5.0	+ 37.0	
1876.								
Sept. 29	P.	10 42.8	16 37.5	23 19 48.08	+ 39.10	81 58 41.7	− 354.4	B. J. 1878
Oct. 2	S.	10 28.8	16 23.4	23 17 27.62	+ 38.56	81 58 8.4	− 351.7	
3	P.	10 24.0	16 18.6	23 16 44.09	+ 38.15	81 58 2.7	− 351.6	
				IO (85)				
1867.								
Jan. 11	H.	12 24.6	18 8.8	.. ..	....	86 30 14.6	− 40.1	B. J. 1869
15	H.	12 5.0	17 49.2	7 45 42.24	− 11.67	86 21 4.1	− 43.5	
23	T.	11 26.4	17 10.6	7 38 35.56	− 11.53	85 56 28.0	− 41.9	
24	N.	11 21.6	17 5.7	7 37 44.09	− 11.19	85 52 52.1	− 41.2	
28	N.	11 2.6	16 46.6	7 34 22.59	− 11.24	85 37 19.6	− 42.3	
29	H.	10 57.9	16 41.9	7 33 33.77	− 11.13	85 33 10.9	− 43.3	
31	N.	10 48.4	16 32.3	7 31 58.75	− 10.92	85 24 41.5	− 41.9	
1868.								
Mar. 30	N.	11 48.2	17 34.0	12 23 28.54	+ 4.87	97 34 8.5	+ 15.8	B. J. 1870
31	A.	11 43.4	17 29.2	12 22 41.64	+ 5.23	97 25 33.2	+ 17.9	
1874.								
Nov. 13	E.	12 45.2	18 33.3	4 17 56.56	+ 23.56	79 55 57.8	− 15.7	B. J. 1876
16	E.	12 30.7	18 18.8	4 15 13.38	+ 23.75	80 15 55.5	− 16.5	
21	F.	12 6.5	17 54.5	4 10 34.71	+ 23.90	80 47 34.1	− 16.7	
Dec. 4	F.	11 3.6	16 54.5	3 58 45.05	+ 23.46	81 55 3.1	− 13.3	
8	S.	10 44.5	16 32.0	3 55 26.70	+ 22.89	82 10 24.0	− 14.4	
9	Sk.	10 39.8	16 27.2	3 54 39.77	+ 23.07	82 13 57.8	− 13.3	
1876.								
Jan. 25	P.	13 14.2	18 57.3	9 33 47.83	+ 23.89	91 31 42.1	+ 76.7	B. J. 1878
Feb. 2	P.	12 36.3	18 20.1	9 27 24.19	+ 23.72	91 1 49.9	+ 75.6	
16	F.	11 29.6	17 13.1	9 15 44.30	+ 23.61	89 48 0.3	+ 76.7	
19	E.	11 15.5	16 58.9	9 13 19.88	+ 23.52	89 29 31.1	+ 77.3	
				SYLVIA (87)				
1881.								
Oct. 26	R.	11 54.9	17 37.3	2 17 40.10	− 0.26	87 28 44.0	+ 2.8	B. J. 1883
Nov. 15	R.	10 21.9	16 3.6	2 3.3	....	87 45 23.4	+ 5.3	
1885.								
Apr. 20	P.	11 58.8	17 38.5	13 56 36.10	....	90 1 25.8	....	Circ. B. J. No. 248
21	W.	11 54.3	17 34.0	13 55.9	....	89 59 9.2	....	
22	E.	11 49.6	17 29.3	13 55 10.99	....	89 56 56.1	....	
				THISBE (88)				
1866.								
July 5	N.	13 20.1	19 11.9	20 15 59.10	....	107 5 53.8	....	These observations were not checked by any Ephemeris
6	R.	13 15.4	19 7.2	20 15 13.49	....	107 5 4.0	....	
7	H.	13 10.6	19 2.3	20 14 27.05	....	107 4 21.7	....	
11	T.	12 51.6	18 43.3	20 11 12.18	....	107 1 59.4	....	
12	R.	12 46.8	18 38.5	20 10 21.45	....	107 1 30.9	....	
13	H.	12 42.0	18 33.6	20 9 30.04	....	107 1 6.5	....	
14	T.	12 37.3	18 28.9	20 8 38.09	....	107 0 42.9	....	
16	N.	12 27.7	18 19.3	20 6 52.66	....	107 0 5.5	....	
23	N.	11 53.8	17 45.4	20 0 36.19	....	106 59 43.1	....	

THISBE—Continued.

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1866.		h m	h m	h m s	s	° ′ ″	″	
July 31	H.	11 15.6	17 7.1	19 53 39.27	....	106 58 48.3	....	
Aug. 20	N.	9 44.1	15 35.5	19 40 54.03	....	106 58 25.0	....	
Sept. 17	T.	7 54.9	13 43.7	19 41 46.79	....	106 41 45.5	....	
24	N.	7 31.2	13 19.9	19 45 34.42	....	106 32 23.4	....	
27	N.	7 21.4	13 10.1	19 47 35.11	....	106 27 31.5	....	
Oct. 3	H.	7 2.4	12 51.1	19 52 15.22	....	106 16 8.8	....	
5	H.	6 56.3	12 45.0	19 53 59.45	....	106 11 48.9	....	
6	N.	6 53.3	12 42.0	19 54 53.63	....	106 9 33.8	....	
15	N.	6 26.8	12 15.5	20 3 55.08	....	105 46 1.9	....	
17	H.	6 21.2	12 9.8	20 6 7.67	....	105 39 59.3	....	
19	H.	6 15.4	12 4.0	.. ..	....	105 33 38.4	....	
20	N.	6 12.9	12 1.5	20 9 34.69	....	105 30 19.3	....	
1867.								
Nov. 18	H.	12 29.4	18 15.2	4 20 36.58	+ 1.53	64 2 20.6	− 0.3	A. N., No. 1667
Dec. 2	H.	11 20.7	17 6.6	4 6 53.24	+ 1.04	64 55 1.3	+ 0.2	
5	H.	11 6.2	16 52.0	4 4 4.00	+ 0.98	65 7 33.9	− 0.4	
7	T.	10 56.4	16 42.1	4 2 14.40	+ 0.70	65 16 2.2	− 0.9	
1871.								
Sept. 21	S.	11 45.3	17 35.1	23 47 43.04	− 0.48	81 45 9.6	− 6.1	B. J. 1873
22	F.	11 49.5	17 39.3	23 46 53.82	− 0.03	... .	....	
1879.								
Mar. 25	S.	12 49.5	18 35.4	13 2 44.53	+ 3.19	105 9 54.5	+ 15.7	B. J. 1881
31	Pr.	12 21.1	18 7.2	12 57 52.67	+ 3.08	104 44 27.1	+ 15.4	
Apr. 2	P.	12 11.5	17 57.7	12 56 12.27	+ 2.94	104 34 55.7	+ 13.1	
21	F.	10 41.3	16 27.5	12 40 41.94	+ 2.87	102 49 3.5	+ 14.0	
22	S.	10 36.8	16 23.0	12 39 58.27	+ 3.12	102 43 10.2	+ 15.8	
JULIA (89)								
1866.								
Oct. 3	H.	7 35.9	13 24.8	20 25 59.10	....	100 51 40.7	....	These observations were not checked by any Ephemeris
4	R.	7 32.5	13 21.4	20 26 27.44	....	100 45 26.9	....	
5	H.	7 29.2	13 18.1	20 26 58.76	....	100 39 10.9	....	
6	N.	7 25.9	13 14.8	20 27 31.17	....	100 32 52.5	....	
8	N.	7 19.1	13 8.0	20 28 41.61	....	100 20 15.3	....	
15	N.	6 56.6	12 45.5	20 33 40.21	....	99 35 14.5	....	
16	R.	6 53.3	12 42.1	20 34 29.22	....	99 28 38.8	....	
1869.								
Mar. 18	N.	12 37.2	17 21.2	12 16 36.26	+ 17.12	113 48 14.0	+ 45.6	B. J. 1871
1875.								
Dec. 20	P.	12 46.1	18 34.7	6 43 44.51	− 5.77	51 4 5.0	− 87.3	B. J. 1877
22	F.	12 35.0	18 23.6	6 41 4.25	− 5.83	51 10 29.4	− 88.0	
1876.								
Jan. 14	E.	10 36.5	16 24.4	6 12 18.66	− 6.07	53 21 21.3	− 64.4	B. J. 1878
ANTIOPE (90)								
1876.								
Apr. 25	S.	13 14.9	19 0.7	15 33 20.44	....	107 50 38.9	....	B. J. 1878
May 4	P.	12 32.9	18 19.0	15 26 39.31	+ 3.58	107 31 36.1	+ 14.2	
13	E.	11 50.2	17 36.5	15 19 19.71	+ 3.66	107 10 20.8	+ 14.4	
27	S.	10 44.0	16 30.3	15 8 9.49	+ 3.44	106 37 44.0	+ 12.9	
31	S.	10 25.5	16 11.7	.. ..	....	106 29 39.6	+ 12.9	
1882.								
July 6	E.	11 35.5	17 23.7	18 35 42.62	− 1.70	115 0 19.3	− 0.8	B. J. 1884
10	E.	11 16.4	17 4.6	18 32 24.56	− 1.68	115 5 46.4	− 2.0	
1883.								
Oct. 30	E.	11 9.0	16 53.6	1 45 30.12	+ 2.12	81 26 4.7	− 18.0	B. J. 1885
Nov. 1	P.	10 59.6	16 44.2	1 43 59.77	+ 1.70	81 33 3.5	− 18.3	
5	P.	10 41.0	16 25.4	1 41 7.27	+ 1.73	81 46 13.7	− 18.6	

ÆGINA (91)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1876.		h m	h m	h m s	s	° ′ ″	″	
Jan. 14	E.	13 31.9	19 21.9	9 8 12.48	− 13.56	70 8 54.7	− 63.5	B. J. 1878
20	S.	13 3.1	18 53.2	9 2 51.95	− 13.76	69 46 19.3	− 65.6	
21	P.	12 58.1	18 48.2	9 1 54.96	− 14.06	.. ..	....	
25	P.	12 38.5	18 28.6	8 58 1.42	− 14.28	69 27 38.9	− 62.0	
Feb. 2	P.	11 59.0	17 49.1	8 50 1.08	− 14.27	68 59 54.1	− 61.3	
4	F.	11 49.2	17 39.3	8 48 2.38	− 14.12	68 53 42.3	− 59.2	
12	F.	11 10.3	17 1.1	8 40 32.21	− 13.80	68 32 40.2	− 58.2	
16	F.	10 51.2	16 40.9	8 37 9.93	− 13.82	68 24 44.3	− 58.9	
1882.								
July 28	R.	12 47.9	18 35.2	21 14 57.40	+ 1.96	108 59 32.5	− 12.5	B. J. 1884
1883.								
Dec. 3	P.	12 32.9	18 23.6	5 23 43.08	+ 12.25	63 24 19.3	− 7.7	B. J. 1885
UNDINA (92)								
1867.								
July 19	H.	13 24.3	19 10.3	21 14 32.92	....	112 48 54.2	....	These observations were not compared with any Ephemeris
25	N.	12 56.7	18 42.7	21 10 31.49	....	113 29 11.8	....	
27	T.	12 47.4	18 33.4	21 9 5.12	....	113 42 29.3	....	
30	H.	12 33.4	18 19.4	21 6 51.95	....	114 2 13.2	....	
31	T.	12 28.6	18 14.6	21 6 6.72	....	114 8 37.5	....	
Aug. 3	T.	12 14.6	18 0.7	21 3 49.14	....	114 27 39.6	....	
6	H.	12 0.4	17 46.4	21 1 30.30	....	114 46 2.0	....	
17	T.	11 9.0	16 54.9	20 53 13.91	....	115 45 23.4	....	
23	H.	10 41.3	16 27.0	20 49 9.81	....	116 11 21.9	....	
24	T.	10 36.8	16 22.5	20 48 31.92	....	116 14 54.8	....	
30	H.	10 9.7	15 55.1	20 45 5.78	....	116 35 2.9	....	
Sept. 6	N.	9 39.1	15 23.9	20 41 59.83	....	116 51 28.7	....	
12	N.	9 13.8	14 58.4	20 40 13.67	....	116 57 12.7	....	
17	H.	8 53.3	14 37.5	20 39 24.61	....	... .	....	
19	N.	8 45.4	14 29.4	20 39 15.31	....	117 3 15.2	....	
20	H.	8 41.3	14 25.2	20 39 13.11	....	117 3 13.0	....	
23	H.	8 29.6	14 13.2	20 39 15.19	....	117 2 17.9	....	
24	T.	8 25.7	14 9.2	20 39 18.93	....	117 1 45.9	....	
Oct. 16	H.	7 6.6	12 48.1	20 46 45.65	....	116 21 16.0	....	
19	T.	6 56.4	12 37.8	20 48 36.73	....	116 11 58.3	....	
23	H.	6 43.6	12 24.8	20 51 21.12	....	115 58 17.3	....	
26	H.	6 34.1	12 15.1	20 53 36.28	....	115 47 7.7	....	
1876.								
Feb. 17	S.	11 27.2	17 7.9	9 17 14.12	+ 0.13	65 46 12.6	+ 1.1	B. J. 1878
18	P.	11 22.5	17 3.1	9 16 28.97	0.00	65 41 54.4	− 1.3	
19	E.	11 17.8	16 58.4	9 15 44.67	+ 0.26	65 37 50.0	+ 3.4	
1879.								
Sept. 26	P.	12 59.9	18 45.4	1 22 27.30	+ 1.15	97 23 21.3	− 6.2	B. J. 1881
27	Pr.	12 55.2	18 40.7	1 21 46.70	+ 1.14	97 28 39.6	− 9.0	
30	P.	12 41.3	18 26.8	1 19 41.29	+ 1.10	97 44 18.4	− 5.9	
Oct. 1	Pr.	12 36.7	18 22.2	1 18 58.64	+ 1.29	97 49 16.6	− 9.3	
2	F.	12 32.0	18 17.5	1 18 15.33	+ 1.26	97 54 13.8	− 8.0	
13	Pr.	11 40.7	17 26.1	1 10 3.50	+ 1.25	98 40 36.6	− 7.8	
15	S.	11 31.3	17 16.7	1 8 34.04	+ 1.23	98 47 10.6	− 6.8	
25	Pr.	10 44.8	16 29.8	1 1 30.52	+ 1.27	98 9 35.9	− 7.9	
MINERVA (93)								
1874.								
Jan. 16	E.	11 55.4	17 39.4	7 41 9.66	− 2.89	56 28 54.1	+ 14.0	B. J. 1876
24	E.	11 15.7	16 59.5	.. ..	....	56 23 17.0	+ 15.1	
1879.								
Feb. 15	S.	12 17.7	18 3.1	10 0 57.44	+ 5.45	69 5 22.6	+ 39.5	B. J. 1881
Mar. 1	S.	11 9.4	16 54.6	9 47 43.93	+ 5.31	68 33 57.7	+ 38.5	

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
				AURORA ⑨④				
		h m	h m	h m s	s	° ′ ″	″	
1876.								
Apr. 19	E.	11 32.7	17 14.4	13 27 13.84	+ 17.26	103 49 43.2	+ 116.3	B. J. 1878
				ÆGLE ⑨⑥				
1876.								
Sept. 28	S.	11 11.8	16 53.2	23 44 56.08	− 0.38	75 15 24.4	+ 2.7	B. J. 1878
29	P.	11 7.1	16 48.5	23 44 6.95	− 0.53	75 18 31.6	+ 5.3	
Oct. 3	P.	10 48.1	16 29.4	23 40 55.32	− 0.39	75 31 37.5	+ 4.1	
12	P.	10 6.1	15 47.2	23 34 18.63	....	76 4 43.2	....	
13	F.	10 1.6	15 42.7	23 33 38.53	....	76 8 42.3	....	
				CLOTHO ⑨⑦				
1875.								
Oct. 20	P.	13 38.8	19 31.6	3 35 59.64	....	90 6 30.5	....	B. J. 1877
25	Sk.	13 17.0	19 9.9	3 33 51.59	+ 7.63	90 58 55.4	− 26.3	
28	P.	13 3.7	18 56.6	3 32 15.94	+ 7.58	91 29 3.6	− 24.9	
29	Sk.	12 59.1	18 52.1	3 31 41.47	+ 7.73	91 38 45.8	− 25.5	
Nov. 2	P.	12 40.8	18 33.9	3 29 11.15	+ 7.74	92 15 49.6	− 25.3	
5	P.	12 27.0	18 20.1	3 27 7.95	+ 7.72	92 41 17.7	− 27.2	
8	F.	12 13.1	18 6.2	3 24 58.37	+ 7.80	93 4 30.0	− 26.1	
11	E.	11 59.0	17 52.2	3 22 44.52	+ 7.83	93 25 5.6	− 27.0	
12	P.	11 54.3	17 47.5	3 21 59.24	+ 7.72	93 31 22.5	− 25.2	
17	P.	11 30.9	17 24.0	3 18 12.94	+ 7.60	93 57 45.1	− 23.3	
24	F.	10 58.4	16 52.2	3 13 10.91	+ 7.66	94 19 46.9	− 23.4	
27	F.	10 44.6	16 37.5	3 11 12.69	+ 7.35	94 23 40.2	− 22.0	
				IANTHE ⑨⑧				
1875.								
Oct. 29	Sk.	12 32.2	18 19.6	3 4 45.95	....	52 17 52.7	....	B. J. 1877
Nov. 2	P.	12 11.8	17 59.3	3 0 8.28	− 8.77	52 10 3.0	+ 29.6	
5	P.	11 56.4	17 44.0	2 56 32.66	− 8.49	52 6 45.4	+ 29.5	
8	F.	11 41.1	17 28.8	2 52 52.63	− 8.39	52 5 47.2	+ 30.8	
11	E.	11 25.6	17 13.3	2 49 10.40	− 8.79	52 7 5.6	+ 32.1	
30	Sk.	9 49.6	15 37.3	. .. .	....	53 1 44.9	+ 36.3	
1877.								
Apr. 25	P.	10 47.2	16 37.3	13 4 20.51	+ 48.98	113 31 15.2	− 560.1	B. J. 1879
May 1	F.	10 18.2	16 8.0	12 58 48.42	+ 47.06	113 22 2.7	− 559.8	
2	S.	10 13.4	16 3.2	12 57 58.40	+ 46.98	113 20 1.0	− 559.5	
				HECATE (100)				
1877.								
Feb. 17	E.	12 8.3	17 48.8	10 1 22.22	+ 0.44	74 41 58.1	− 2.0	B. J. 1879
19	S.	11 58.9	17 39.4	9 59 51.78	+ 0.56	74 31 29.6	− 3.8	
21	E.	11 49.5	17 30.0	9 58 21.80	+ 0.78	74 21 15.2	− 1.9	
28	P.	11 16.9	16 57.3	9 53 13.36	+ 0.20	73 47 8.1	− 1.7	
Mar. 9	E.	10 35.5	16 15.5	9 47 12.13	+ 0.43	73 8 48.0	− 1.3	
				HELENA (101)				
1876.								
July 21	F.	12 29.5	18 20.9	20 30 45.87	+ 31.96	121 52 39.9	− 165.2	B. J. 1878
Aug. 9	E.	10 54.7	16 45.9	20 10 38.47	+ 32.05	121 10 5.1	− 169.7	
1879.								
Mar. 11	Pr.	11 55.3	17 41.2	11 13 11.76	+ 17.28	86 33 38.2	+ 170.7 (?)	B. J. 1881

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris Remarks, etc.
MIRIAM (102)								
1876.		h m	h m	h m s	s	° ′ ″	″	
May 29	E.	12 18.7	18 6.9	16 50 59.39	— 0.16	107 9 13.1	— 180.0	B. J. 1878
June 1	P.	12 4.0	17 52.3	16 48 8.57	— 0.41	106 58 51.4	— 177.4	
1881.								
Oct. 10	R.	11 5.3	16 58.6	0 24 47.36	— 10.56	83 48 58.5	+ 52.3	B. J. 1883
11	W.	11 0.7	16 54.0	0 24 12.06	— 10.32	83 57 27.5	+ 52.7	
20	E.	10 20.8	16 13.8	0 19 41.02	— 9.71	85 9 17.9	+ 51.2	
21	S.	10 16.5	16 9.5	0 19 17.30	— 9.69	85 16 36.0	+ 51.0	
22	R.	10 12.1	16 5.0	0 18 55.09	— 9.66	85 23 46.3	+ 53.2	
HERA (103)								
1876.								
May 27	S.	12 15.2	18 3.6	16 39 34.51	— 0.30	103 59 56.7	— 2.1	B. J. 1878
29	E.	12 5.5	17 53.9	16 37 46.70	— 0.18	103 57 22.3	— 4.7	
June 1	P.	11 51.1	17 39.5	16 35 3.79	— 0.40	103 54 8.0	— 1.4	
1877.								
Oct. 15	E.	11 20.7	17 9.3	0 59 52.54	+ 0.05	91 52 50.4	+ 1.6	B. J. 1879
18	P.	11 6.6	16 55.1	0 57 33.06	— 0.25	92 8 2.2	+ 1.9	
23	E.	10 43.2	16 31.5	0 53 54.46	+ 0.02	92 30 16.5	+ 1.9	
31	E.	10 6.8	15 54.7	0 48 51.47	— 0.18	92 56 47.6	+ 2.2	
ARTEMIS (105)								
1879.								
Sept. 17	S.	12 45.0	18 34.0	0 32 7.79	+ 42.74	83 42 27.3	— 8.5	B. J. 1881
25	S.	12 7.1	17 56.1	0 25 41.89	+ 43.25	85 35 44.6	— 19.3	
26	P.	12 2.4	17 51.4	0 24 52.23	+ 42.85	85 50 6.1	— 22.3	
27	Pr.	11 57.6	17 46.6	0 24 3.23	+ 43.10	86 4 27.9	— 25.7	
Oct. 1	Pr.	11 38.7	17 27.7	0 20 47.24	+ 42.95	87 1 57.8	— 28.2	
DIONE (106)								
1876.								
Feb. 2	P.	13 36.5	19 18.2	10 27 37.52	— 5.16	73 26 10.0	— 15.8	B. J. 1878
16	F.	12 30.8	18 12.7	10 17 8.40	— 5.11	72 20 6.0	— 16.6	
17	S.	12 26.3	18 8.2	10 16 21.11	— 4.95	72 15 41.9	— 12.6	
18	P.	12 21.5	18 3.4	10 15 33.56	— 4.96	72 11 13.9	— 16.3	
Mar. 3	F.	11 15.7	16 57.2	10 4 45.06	— 4.81	71 17 53.2	— 15.2	
6	E.	11 1.7	16 43.0	10 2 37.41	— 4.58	.. ..	....	
1877.								
May 1	F.	10 47.5	16 26.3	13 28 9.70	— 13.94	95 18 9.2	+ 80.7	B. J. 1879
2	S.	10 42.8	16 21.6	13 27 31.43	— 13.26	95 15 21.1	+ 84.2	
1879.								
Sept. 24	F.	10 55.6	16 43.2	23 9 57.78	— 55.42	102 54 33.9	+ 352.4	B.J. 1881
26	P.	10 46.3	16 33.9	23 8 36.30	— 55.39	102 59 35.1	+ 348.2	
27	Pr.	10 41.6	16 29.1	23 7 57.11	— 54.99	103 1 51.0	+ 344.8	
30	P.	10 28.1	16 15.5	23 6 3.91	— 54.74	103 7 51.6	+ 342.0	
Oct. 1	Pr.	10 23.6	16 11.0	23 5 28.31	— 54.38	103 9 30.3	+ 338.5	
2	F.	10 19.0	16 6.4	23 4 53.61	— 54.09	... .	.....	

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
CAMILLA (107)								
		h m	h m	h m s	s	° ′ ″	″	
1877. Apr. 7	F.	8 30.1	14 10.3	9 35 49.86	+ 4.91	79 56 8.9	— 32.4	B. J. 1879
11	F.	8 14.6	13 54.4	9 36 5.52	+ 5.59	79 44 12.8	— 29.4	
12	S.	8 10.9	13 50.5	9 36 12.88	+ 6.23	79 41 28.3	— 31.5	
14	E.	8 3.3	13 42.7	9 36 30.35	+ 6.74	79 36 26.6	— 29.4	
1884. Apr. 18	W.	.. ....	.. ....	12 3 1.61	....	87 13 42.6	....	
1885. June 12	P.	10 52.5	16 31.9	16 19 1.73	....	98 21 14.0	....	Circ. B. J. No. 251
18	E.	10 25.3	16 4.4	16 15 25.02	....	98 17 24.8	....	
19	P.	10 20.8	15 59.8	16 14 50.89	....	98 17 4.1	....	
FELICITAS (109)								
1876. Apr. 25	S.	12 7.0	17 48.5	14 25 13.46	— 12.37	111 15 52.2	— 30.3	B. J. 1878
LYDIA (110)								
1876. Aug. 26	F.	12 53.9	18 43.0	23 17 11.79	— 0.52	105 6 35.8	+ 6.9	B. J. 1878
28	E.	12 44.5	18 33.6	23 15 35.22	— 0.58	105 16 40.5	+ 6.4	
1877. Dec. 11	F.	13 4.3	18 50.7	6 28 29.29	+ 1.26	61 38 29.0	— 3.1	B. J. 1879
1879. Mar. 18	P.	12 29.3	18 15.0	12 14 56.01	+ 1.10	83 17 18.3	+ 7.6	B. J. 1881
19	Pr.	12 24.6	18 10.3	12 14 5.19	+ 1.00	83 12 38.6	+ 7.9	
ATE (111)								
1875. Oct. 20	P.	13 20.6	19 9.7	3 17 51.20	+ 2.91	63 35 19.2	+ 8.3	B. J. 1877
25	Sk.	12 57.1	18 46.4	3 13 54.11	+ 2.98	63 42 59.2	+ 10.1	
27	F.	12 47.5	18 36.9	3 12 10.33	+ 2.99	63 47 12.3	+ 7.5	
28	P.	12 42.7	18 32.1	3 11 16.72	+ 2.88	63 49 39.5	+ 11.6	
29	Sk.	12 37.8	18 27.3	3 10 22.27	+ 2.92	63 52 12.1	+ 10.9	
Nov. 2	P.	12 18.3	18 7.9	3 6 36.00	+ 3.01	64 4 7.9	+ 12.9	
5	P.	12 3.6	17 53.3	3 3 39.57	+ 3.02	64 14 43.9	+ 12.8	
8	F.	11 48.9	17 38.6	3 0 40.18	+ 3.31	64 26 36.8	+ 10.5	
11	E.	11 34.1	17 23.9	2 57 39.63	+ 3.32	64 39 46.5	+ 11.9	
15	E.	11 14.4	17 4.2	2 53 41.45	+ 3.52	64 58 53.9	+ 11.0	
24	F.	11 30.6	16 20.3	2 45 20.00	+ 3.60	65 46 40.6	+ 6.8	
1877. Apr. 12	S.	10 47.0	16 35.8	12 12 46.89	— 18.60	99 26 11.4	— 512.9	B. J. 1879
14	E.	10 37.7	16 26.4	12 11 18.59	— 18.11	99 15 58.9	— 505.6	

AMALTHEA (113)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1876.		h m	h m	h m s	s	° ′ ″	″	
Oct. 11	F.	10 59.5	16 47.9	0 23 45.34	− 47.69	95 29 57.7	+315.1	B. J. 1878
12	P.	10 54.6	16 43.0	0 22 55.64	− 47.60	95 34 54.4	+310.6	
13	F.	10 49.9	16 38.3	0 22 6.80	− 47.37	95 39 44.0	+309.0	
18	S.	10 26.5	16 14.7	0 18 15.80	− 46.32	96 1 11.3	+298.3	
1878.								
Feb. 5	E.	11 11.6	17 2.4	8 16 14.02	+ 22.33	69 25 12.5	+ 47.2	B. J. 1880
6	S.	11 6.7	16 57.4	8 15 16.96	+ 21.93	69 19 38.7	+ 45.9	
1879.								
June 18	P.	13 41.2	19 31.7	19 29 40.54	+ 8.90	108 35 6.2	− 9.2	B. J. 1881
20	F.	13 31.8	19 22.3	19 28 5.32	+ 9.16	108 42 5.7	− 6.2	
23	Pr.	13 17.3	19 7.9	19 25 32.76	+ 9.18	108 53 2.2	− 7.3	
July 21	Pr.	11 0.2	16 50.7	18 58 26.09	+ 9.09	110 48 14.1	− 4.7	
1882.								
Apr. 13	R.	10 13.1	16 4.4	11 41 54.17	+ 8.6 ±	79 36 33.5	0.0±	Circ. B. J. No. 178
17	E.	9 55.5	15 46.6	11 40 2.92	+ 7.9 ±	79 28 49.1	0.0±	
1884.								
Dec. 9	P.	12 11.1	18 0.6	5 28 29.15	+ 0.72	72 23 18.2	− 2.5	Bull. Astron., Tome I, p. 500.

CASSANDRA (114)

1883.								
Apr. 25	E.	11 39.0	17 28.8	13 54 22.02	− 1.59	95 15 39.7	− 5.9	B. J. 1885
30	S.	11 15.5	17 5.1	13 50 28.47	− 1.73	94 48 43.0	− 7.3	
May 2	W.	11 6.1	16 55.6	13 48 59.43	− 1.57	94 38 51.7	− 6.6	

THYRA (115)

1877.								
Mar. 15	P.	12 30.3	18 17.7	12 5 59.82	+ 2.49	106 49 14.7	+ 17.1	B. J. 1879
29	E.	11 21.0	17 8.4	11 51 42.44	+ 2.78	105 53 59.5	+ 16.5	
30	F.	11 16.1	17 3.4	11 50 43.61	+ 2.53	105 48 58.8	+ 17.8	
Apr. 5	P.	10 46.9	16 34.1	11 45 8.54	+ 2.56	105 16 42.9	+ 16.0	
11	F.	10 18.4	16 5.3	11 40 9.88	+ 2.82	104 42 13.0	+ 17.4	
12	S.	10 13.7	16 0.6	11 39 24.10	+ 2.63	104 36 19.5	+ 15.2	
14	E.	10 4.3	15 51.1	11 37 56.95	+ 2.69	104 24 38.1	+ 17.2	
1878.								
July 2	E.	11 35.5	17 24.1	18 19 48.07	+ 3.52	123 34 10.8	− 17.0	B. J. 1880
3	F.	11 30.3	17 18.9	18 18 35.49	+ 3.63	123 30 39.2	− 14.9	
1882.								
July 28	R.	12 53.3	18 44.4	21 20 23.73	− 7.28	104 8 50.5	− 6.8	Circ. B. J. No. 185

SIRONA (116)

1876.								
Oct. 11	F.	12 42.2	18 27.6	2 6 45.84	+ 7.66	80 31 43.8	− 33.5	B. J. 1878
12	P.	12 37.4	18 22.9	2 5 57.01	+ 7.47	80 35 27.6	− 35.9	
13	F.	12 32.6	18 18.1	2 5 7.96	+ 7.69	80 39 14.1	− 37.8	
17	F.	12 13.6	17 59.2	2 1 45.58	+ 7.65	80 54 47.0	− 32.8	
18	S.	12 8.8	17 54.4	2 0 53.95	+ 7.65	80 58 36.4	− 37.8	
27	P.	11 25.5	17 11.2	1 53 2.33	+ 7.40	81 33 24.2	− 38.8	
Nov. 1	E.	11 1.7	16 47.3	1 48 45.29	+ 7.62	.. ..	....	
5	E.	10 42.6	16 28.2	1 45 27.55	+ 7.55	82 5 13.1	− 36.6	
7	S.	10 33.2	16 18.7	1 43 52.37	+ 7.39	82 11 31.4	− 37.6	
1878.								
Feb. 6	S.	12 58.0	18 48.2	10 6 52.43	− 4.57	71 59 5.5	− 24.0	B. J. 1880
18	S.	12 0.3	17 50.6	9 56 26.45	− 4.55	70 58 15.4	− 22.9	
26	S.	11 22.1	17 12.3	9 49 35.44	− 4.53	70 25 51.7	− 23.7	
28	E.	11 12.7	17 2.6	.. ..	....	70 19 13.8	− 22.6	
Mar. 4	E.	10 53.9	16 43.9	9 44 58.26	− 4.26	70 7 52.8	− 22.7	
5	F.	10 49.3	16 39.2	9 44 15.76	− 4.29	70 5 28.8	− 21.9	

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
LOMIA (117)								
		h m	h m	h m s	s	° ′ ″	″	
1876. Aug. 26	F.	12 39.1	18 24.6	23 2 23.87	+ 9.40	100 22 33.2	− 102.3	B. J. 1878
PEITHO (118)								
1876. Apr. 4	F.	12 28.8	18 17.4	13 24 9.23	− 24.36	92 12 45.4	− 199.1	B. J. 1878
10	P.	11 59.1	17 47.6	13 18 10.56	− 24.50	91 53 34.5	− 202.3	
15	E.	11 34.6	17 23.0	13 13 15.51	− 24.23	91 39 33.1	− 200.5	
19	E.	11 15.1	17 3.4	13 9 27.77	− 23.76	91 30 3.7	− 195.2	
20	F.	11 10.2	16 58.5	13 8 32.14	− 23.98	.. ..	.....	
25	S.	10 46.1	16 34.2	13 4 8.62	− 23.12	91 19 7.4	− 192.9	
ALTHÆA (119)								
1876. Apr. 4	F.	11 22.8	17 9.6	12 18 4.09	− 76.24	94 24 9.1	− 411.1	B. J. 1878
5	S.	11 18.0	17 4.8	12 17 17.24	− 76.13	94 16 56.8	− 410.0	
9	S.	10 59.4	16 46.1	12 14 15.82	− 75.54	93 48 31.4	− 408.2	
10	P.	10 54.6	16 41.3	12 13 32.09	− 75.45	93 41 33.5	− 407.8	
12	F.	10 45.3	16 31.9	12 12 7.74	− 74.48	93 28 0.4	− 404.7	
1878. Dec. 13	Pr.	10 36.9	16 26.1	4 6 38.32	+ 55.27	75 57 52.7	− 174.4	B. J. 1880
LACHESIS (120)								
1877. Feb. 21	E.	11 22.1	17 6.5	9 30 54.58	+ 5.52	71 44 47.7	+ 36.9	B. J. 1879
28	P.	10 49.1	.. ....	9 25 26.18	....	71 35 32.6	....	Uncertain
1878. May 1	S.	12 20.8	18 6.1	15 0 45.77	− 0.47	117 3 50.9	− 0.3	B. J. 1880
9	S.	11 42.4	17 27.8	14 53 49.27	− 0.22	116 46 11.7	+ 0.3	
1883. Apr. 3	R.	11 0.2	16 45.3	11 48 39.55	− 0.26	92 51 30.8	+ 0.7	B. J. 1885
HERMIONE (121)								
1877. Mar. 15	P.	11 53.8	17 31.6	11 29 21.55	− 4.43	75 37 32.5	− 34.0	B. J. 1879
29	E.	10 49.7	16 27.0	11 20 19.86	− 3.89	74 54 17.9	− 33.1	
30	F.	10 45.1	.. ....	11 19 44.00	....	74 51 59.0	....	
1880. Sept. 16	R.	13 1.3	18 46.0	0 47 30.34	− 2.75	96 33 23.5	+ 35.8	B. J. 1882
Oct. 2	R.	11 47.3	17 32.1	0 36 23.32	− 3.14	97 36 20.7	+ 39.6	
13	S.	10 56.4	16 40.9	0 28 42.68	− 3.51	98 5 13.3	+ 40.0	
15	W.	10 47.2	16 31.6	0 27 25.02	− 3.32	98 8 39.5	+ 36.7	
1885. June 12	P.	11 9.3	16 50.3	16 35 46.81	...	111 28 51.6	....	Circ. B. J. No. 251
18	E.	10 41.1	16 22.0	16 31 20.10	....	111 29 49.6	....	
19	P.	10 36.6	16 17.4	16 30 37.35	....	111 29 58.2	....	
BRUNHILDA (123)								
1879. Mar. 11	Pr.	11 30.7	17 18.3	10 48 30.87	− 0.87	89 7 16.3	− 6.5	B. J. 1881
18	P.	10 57.4	16 44.8	10 42 42.26	− 0.78	88 40 11.7	− 4.8	
19	Pr.	10 52.6	16 40.0	.. ..	....	88 36 22.8	− 4.9	

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
ALCESTE (124)								
1877.		h m	h m	h m s	s	° ′ ″	″	
Nov. 2	S.	12 37.5	18 24.1	3 7 52.59	− 0.23	75 15 22.0	+ 4.4	B. J. 1879
3	F.	12 12.7	17 59.3	3 6 58.19	− 1.24	75 19 57.4	+ 6.9	
12	E.	11 29.2	17 15.8	2 58 45.40	− 0.94	76 1 21.0	+ 7.1	
13	F.	11 24.2	17 10.7	2 57 50.91	− 1.22	76 5 52.8	+ 9.4	
16	E.	11 9.9	16 56.4	2 55 10.91	− 0.80	.. ..	....	
20	E.	10 50.6	16 37.0	2 51 44.26	− 1.06	76 35 57.8	+ 7.8	
VELLEDA (126)								
1876.								
Nov. 27	S.	11 29.8	17 20.2	3 59 29.78	+ 22.09	66 2 41.4	− 81.6	B. J. 1878
Dec. 5	S.	10 50.0	16 40.2	3 51 9.53	+ 21.46	66 21 5.6	− 86.2	
7	E.	10 40.2	16 30.4	3 49 14.03	+ 21.17	66 25 53.8	− 89.1	
NEMESIS (128)								
1876.								
Sept. 28	S.	10 43.7	16 33.2	23 16 46.89	+ 13.03	105 46 39.8	− 80.9	B. J. 1878
29	P.	10 39.2	16 28.7	23 16 5.23	.....	105 48 40.2	....	
1879.								
Mar. 24	F.	13 16.8	19 0.9	13 26 11.70	+ 0.54	90 25 23.3	+ 6.8	B. J. 1881
25	S.	13 12.7	18 56.8	13 25 27.57	+ 0.85	90 20 42.6	+ 3.8	
31	Pr.	12 43.9	18 28.2	13 20 48.19	+ 0.71	89 53 5.0	+ 3.6	
Apr. 2	P.	12 34.4	18 18.7	13 19 11.23	+ 0.57	89 44 2.2	+ 2.7	
8	Pr.	12 5.8	17 50.2	13 14 14.85	+ 0.62	89 18 0.9	+ 3.3	
12	Pr.	11 46.9	17 31.2	13 10 55.90	+ 0.53	89 1 55.8	+ 4.6	
21	F.	11 4.3	16 48.4	13 3 42.57	+ 0.51	88 31 0.3	+ 5.4	
24	Pr.	10 50.3	16 34.3	13 1 27.15	+ 0.67	88 22 41.9	+ 6.2	
ANTIGONE (129)								
1876.								
Dec. 6	P.	12 7.5	17 48.7	5 12 48.78	+ 73.70	81 55 50.4	− 197.3	B. J. 1878
12	F.	11 38.7	17 19.9	5 7 38.91	+ 73.67	81 54 54.4	− 199.2	
13	S.	11 34.0	17 15.2	5 6 47.21	+ 73.40	81 54 18.7	− 204.9	
15	E.	11 24.4	17 5.6	5 5 4.98	+ 73.45	81 53 3.4	− 201.8	
19	E.	11 5.3	16 46.4	5 1 43.40	+ 73.69	81 49 12.6	− 202.6	
1878.								
Feb. 18	S.	12 10.8	17 57.7	10 6 53.13	+ 172.26	74 28 15.7	+ 358.9	B. J. 1880
28	E.	11 23.4	17 10.4	9 58 49.91	+ 173.08	73 2 46.7	+ 311.3	
Mar. 1	F.	11 18.6	17 5.6	9 58 2.07	+ 171.87	72 54 45.0	+ 308.9	
4	E.	11 4.4	16 51.3	9 55 44.98	+ 171.04	72 31 11.6	+ 290.9	
5	F.	11 0.0	16 46.9	9 55 0.56	+ 170.65	72 23 35.4	+ 284.7	
1880.								
Oct. 18	R.	12 2.5	17 44.9	1 54 40.56	+ 0.07	95 19 5.0	+ 5.2	B. J. 1882
ELECTRA (130)								
1876.								
Sept. 28	S.	10 51.8	16 40.4	23 24 52.47	− 51.30	112 13 0.1	+ 9.7	B. J. 1878
29	P.	10 47.3	16 35.9	23 24 20.76	− 51.06	112 22 30.2	+ 8.8	
1881.								
July 10	R.	12 22.8	18 8.0	19 39.8	.....	92 7 59.3	+ 6.4	B. J. 1883
14	R.	12 3.9	17 49.2	19 36 41.49	+ 1.44	92 35 0.6	+ 4.4	
18	R.	11 45.0	17 30.4	19 33 32.21	+ 1.28	93 4 50.2	+ 4.6	

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CYRENE (133)								
		h m	h m	h m s	s	° ′ ″	″	
1876. Feb. 2	P.	10 35.6	16 17.6	7 26 16.23	− 11.16	63 45 49.8	− 41.0	B. J. 1878
1877. Mar. 30	F.	12 11.0	17 57.9	12 45 47.15	− 8.01	104 42 38.6	− 65.7	B. J. 1879
Apr. 5	P.	11 42.5	17 29.5	12 40 47.62	− 7.88	104 23 43.2	− 67.2	
11	F.	11 14.0	17 1.0	12 35 53.45	− 7.76	104 1 56.7	− 66.7	
12	S.	11 9.3	16 56.3	12 35 5.95	− 7.66	103 57 41.5	− 67.1	
14	E.	10 59.8	16 46.8	12 33 32.42	− 7.74	103 49 44.4	− 66.1	
SOPHROSYNE (134)								
1879. Feb. 15	S.	11 47.7	17 37.3	9 30 55.50	+ 0.60	66 36 13.8	+ 1.1	B. J. 1881
1881. Aug. 23	R.	12 39.0	18 28.1	22 49 35.60	− 0.22	101 11 55.5	+ 6.3	B. J. 1883
27	R.	12 19.2	18 8.3	22 45 32.10	− 0.79	101 16 29.1	+ 6.4	
HERTHA (135)								
1879. Sept. 6	P.	12 55.0	18 48.6	23 58 48.18	− 2.48	89 25 6.1	+ 11.5	B. J. 1881
10	P.	12 36.0	18 29.6	23 55 28.46	− 2.47	89 38 33.1	+ 12.0	
16	F.	12 7.1	18 0.7	23 50 11.10	− 2.28	90 1 2.1	+ 12.3	
17	S.	12 2.3	17 55.9	23 49 16.96	− 2.62	90 4 56.3	+ 12.4	
Oct. 7	S.	10 27.8	16 20.8	23 33 21.02	− 2.36	91 15 43.7	+ 11.2	
1882. Apr. 13	R.	12 7.3	17 56.3	13 36 23.98	− 10.0±	102 47 6.4	− 0.4	Circ. B. J. No. 178
AUSTRIA (136)								
1877. Feb. 7	S.	11 16.3	17 5.5	8 29 55.90	+ 13.65	84 0 17.6	+ 37.1	B. J. 1879
13	E.	10 47.5	16 36.5	8 24 36.88	+ 13.05	83 16 0.2	+ 34.1	Only one thread in R. A. Feb. 7
TOLOSA (138)								
1877. Feb. 20	P.	12 21.0	18 7.7	10 25 52.48	+ 14.73	74 52 1.9	+ 88.8	B. J. 1879
21	E.	12 16.0	18 2.7	10 24 55.10	+ 14.99	74 46 41.1	+ 89.8	
Mar. 7	S.	11 8.9	16 55.4	10 11 46.14	+ 14.27	73 40 20.3	+ 80.5	
9	E.	10 58.2	16 44.6	10 10 2.34	+ 14.72	73 32 39.4	+ 80.2	
1878. July 2	E.	11 47.9	17 40.7	18 32 13.30	+ 5.28	117 36 29.0	+ 4.6	B. J. 1880
3	F.	11 42.9	17 35.7	18 31 12.98	+ 5.27	117 39 48.5	+ 3.2	
15	F.	10 44.5	16 47.2	18 19 59.78	+ 5.41	117 59 31.4	+ 5.9	
1882. July 28	R.	12 49.9	18 43.0	21 17 0.42	+ 7.32	112 15 18.3	− 30.1	B. J. 1884

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				VIBILIA (144)				
		h m	h m	h m s	s	° ′ ″	″	
1876. Nov. 24	S.	.. ....	.. ....	4 56 45.88	....	68 19 0.1	....	No Ephemeris
27	S.	.. ....	.. ....	4 53 36.99	....	.. ..	....	
Dec. 2	P.	.. ....	.. ....	4 48 15.62	....	68 11 33.9	....	
3	E.	.. ....	.. ....	4 47 11.26	....	68 10 47.1	....	
5	S.	.. ....	.. ....	4 45 3.03	....	68 9 14.8	....	
6	P.	.. ....	.. ....	4 43 59.31	....	68 8 28.9	....	
7	E.	.. ....	.. ....	4 42 56.09	....	68 7 45.3	....	
8	F.	.. ....	.. ....	4 41 53.55	....	68 7 6.9	....	
12	F.	.. ....	.. ....	4 37 49.74	....	68 4 22.4	....	
13	S.	.. ....	.. ....	4 36 51.12	....	68 3 42.8	....	
19	E.	.. ....	.. ....	4 31 23.57	....	67 59 45.6	....	
21	S.	.. ....	.. ....	4 29 45.22	....	67 58 23.1	....	
31	E.	.. ....	.. ....	4 23 16.39	....	67 50 7.4	....	
1879. May 23	F.	11 5.4	16 50.6	15 11 2.60	+ 44.33	104 49 44.6	+ 0.4	B. J. 1881
1880. Nov. 12	W.	.. ....	.. ....	0 30 42.42	....	93 27 33.9	....	Circ. B. J. No. 146
20	W.	.. ....	.. ....	0 31 44.50	....	92 42 31.3	....	
22	S.	.. ....	.. ....	0 32 17.91	....	92 29 29.7	....	
23	E.	.. ....	.. ....	0 32 37.36	....	92 22 46.3	....	
				GALLIA (148)				
1880. Nov. 11	R.	11 15.4	17 5.2	2 42 5.18	+ 7.28	116 42 53.6	− 14.0	B. J. 1882
12	W.	11 10.8	17 0.6	2 41 21.58	+ 7.59	116 43 0.9	− 12.9	
20	W.	10 33.9	16 23.3	2 35 59.20	+ 7.08	116 27 20.9	− 13.0	
				BERTHA (154)				
1881. Nov. 25	E.	11 9.9	16 52.0	3 30 47.70	− 3.13	58 54 50.5	+ 39.8	B. J. 1883
27	R.	11 0.0	16 42.1	3 28 45.55	− 3.47	58 53 34.7	+ 38.6	
Dec. 7	E.	10 11.1	15 52.9	3 19 14.14	− 3.20	58 52 40.5	+ 34.0	
				EUCHARIS (181)				
1878. Feb. 28	E.	11 8.9	16 55.8	9 44 14.10	....	73 45 37.6	....	No Ephemeris Parallax not applied
Mar. 1	F.	11 4.3	16 51.2	9 43 36.98	....	73 35 14.5	....	
4	E.	10 50.8	16 37.5	9 41 52.21	....	73 4 54.5	....	
5	F.	10 46.3	16 32.9	9 41 19.09	....	72 55 11.5	....	
9	F.	10 28.6	16 15.0	9 39 18.11	....	72 18 5.8	....	
13	F.	10 11.1	15 57.2	9 37 36.97	....	71 44 11.9	....	
20	E.	9 41.5	15 26.9	9 35 32.09	....	70 52 56.9	....	
23	P.	9 29.2	15 14.4	9 34 59.54	....	70 34 16.3	....	
25	F.	9 21.2	15 6.2	9 34 45.72	....	70 22 43.0	....	
Apr. 2	F.	8 49.8	14 34.9	9 34 48.54	....	69 45 35.2	....	
5	P.	8 38.3	14 23.4	9 35 13.65	....	69 34 51.4	....	

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
ELSA (182)								
1878.		h m	h m	h m s	s	° ′ ″	″	
Mar. 9	F.	10 41.6	16 32.5	9 52 26.05	....	74 28 48.8	....	Circ. B. J. No. 86
13	F.	10 23.2	16 13.9	9 49 44.22	....	74 17 38.7	....	
15	P.	10 14.1	16 4.7	9 48 32.27	....	74 9 12.2	....	
20	E.	9 52.0	15 42.2	9 46 2.25	....	73 57 18.9	....	
23	P.	9 39.1	15 29.1	9 44 51.77	....	73 52 20.0	....	
Apr. 2	F.	8 57.7	14 46.9	9 42 50.92	....	73 45 4.0	....	
5	P.	8 35.9	14 23.8	9 42 48.39	....	73 47 1.2	....	
7	P.	8 38.2	14 25.9	9 42 55.22	....	73 48 52.9	....	
1884.								
Nov. 11	P.	.. ....	.. ....	3 37 24.14	....	73 54 36.4	....	Circ. B. J. No. 238
12	W.	.. ....	.. ....	3 36 27.05	....	73 57 2.5	....	
14	S.	.. ....	.. ....	3 34 31.18	....	74 1 53.6	....	
15	P.	.. ....	.. ....	3 33 32.86	....	74 4 18.3	....	
EUNIKE (185)								
1878.								
Mar. 4	E.	.. ....	.. ....	10 41 8.74	....	77 41 26.9	....	No Ephemeris
5	F.	.. ....	.. ....	10 40 23.02	....	77 30 28.4	....	Parallax not applied
9	F.	.. ....	.. ....	10 37 23.50	....	76 47 22.9	....	
13	F.	.. ....	.. ....	10 34 31.87	....	76 6 11.3	....	
15	P.	.. ....	.. ..	10 33 9.69	....	75 46 26.2	....	
17	F.	.. ....	.. ....	10 31 51.55	....	75 27 13.4	....	
20	E.	.. ....	.. ....	10 29 59.39	....	74 59 57.4	....	
23	P.	.. ....	.. ....	10 28 15.52	....	74 34 12.7	....	
25	F.	.. ....	.. ....	10 27 11.63	....	74 17 58.9	....	
Apr. 7	P.	.. ....	.. ....	10 23 46.83	....	72 58 51.5	....	
1880.								
Sept. 15	S.	11 11.3	17 1.1	22 53 11.18	— 12.63	105 36 12.5	— 6.6	B. J. 1882
16	R.	11 6.7	16 56.5	22 52 33.28	— 12.62	105 50	....	
17	W.	11 2.1	16 51.9	22 51 56.12	— 12.51	106 4 13.5	— 10.8	
1885.								
Nov. 20	E.	11 31.5	17 20.1	3 32 54.76	— 1.13	108 26 20.5	+ 1.2	B. J. 1887
Dec. 2	E.	10 38.7	16 26.8	3 23 44.56	— 0.81	108 12 40.1	— 0.8	
LAMBERTA (187)								
1880.								
Nov. 11	R.	.. ....	.. ....	2 21 10.62	....	70 22 7.7	....	Circ. B. J. No. 146
PHTHIA (189)								
1878.								
Sept. 27	Pr.	.. ....	.. ....	1 2 30.44	....	81 29 31.5	....	Parallax not applied
Oct. 1	P.	.. ....	.. ....	0 59 31.23	....	81 56 37.6	....	
1881.								
June 28	R.	10 42.4	16 31.7	17 11 44.22	— 43.09	105 21 12.5	— 12.1	Circ. B. J. No. 159
July 2	R.	10 23.4	16 12.7	17 8 33.48	— 42.61	105 18 36.0	— 7.0	
ISMENE (190)								
1878.								
Oct. 1	P.	.. ....	.. ....	1 5 3.62	....	85 46 42.9	....	Parallax not applied
3	P.	.. ....	.. ....	1 3 52.70	....	85 46 31.5	....	

PROKNE (194)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1879.		h m	h m	h m s	s	° ′ ″	″	
Apr. 1	F.	.. ....	.. ....	12 3 29.97	.....	78 49 14.8	.....	
2	P.	.. ....	.. ....	12 2 44.15	.....	78 40 10.2	.....	Parallax not applied
8	Pr.	.. ....	.. ....	11 58 20.93	.....	77 50 14.0	.....	
21	F.	.. ....	.. ....	11 50 27.14	.....	76 29 24.9	.....	
22	S.	.. ....	.. ....	11 49 57.96	.....	76 24 30.1	.....	
24	Pr.	.. ....	.. ....	11 49 2.53	.....	76 15 25.8	.....	
May 14	Pr.	.. ....	.. ....	11 44 31.13	.....	75 31 18.7	.....	

ARETE (197)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1880.								
Nov. 11	R.	.. ....	.. ....	1 42 25.95	....	90 33 59.4	.....	Circ. B. J. No. 146

DYNAMENE (200)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1879.								
Aug. 19	P.	.. ....	.. ....	21 22 4.77	.....	106 17 39.1	.....	Parallax not applied
20	S.	.. ....	.. ....	21 21 9.67	.....	106 19 3.2	.....	
21	E.	.. ....	.. ....	21 20 14.92	.....	106 20 30.6	.....	
22	P.	.. ....	.. ....	21 19 20.44	.....	106 21 50.0	.....	
Sept. 5	S.	10 8.7	15 55.8	21 8 6.76	.....	106 32 59.7	.....	Parallax applied
6	P.	10 4.0	15 51.1	21 7 26.74	.....	106 33 10.4	.....	
10	P.	9 46.0	15 33.1	21 5 0.22	.....	106 33 6.1	.....	
12	F.	9 37.0	15 23.7	21 3 55.35	.....	106 32 30.3	.....	
16	F.	9 19.5	15 6.0	21 2 4.59	.....	106 30 20.6	.....	
17	S.	9 15.2	15 1.7	21 1 41.05	.....	106 29 28.9	.....	
24	F.	8 45.7	14 31.7	20 59 40.82	.....	106 21 17.4	.....	
1884.								
Oct. 23	P.	10 29.3	16 19.2	0 41 4.17	+ 20.59	75 3 38.2	— 158.0	Circ. B. J. No. 236
25	S.	.. ....	.. ....	0 39 34.22	.....	75 12 8.6	.....	

CHRYSEIS (202)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1879.								
Sept. 24	F.	.. ....	.. ....	23 42 13.43	.....	100 15 18.3	.....	Parallax not applied
25	S.	.. ....	.. ....	23 41 31.84	.....	100 21 3.9	.....	
26	P.	.. ....	.. ....	23 41 50.42	.....	100 26 38.2	.....	
30	P.	.. ....	.. ....	23 38 9.22	.....	100 47 57.0	.....	
Oct. 2	F.	.. ....	.. ....	23 36 51.88	.....	100 57 53.1	.....	
10	F.	.. ....	.. ....	23 32 5.66	.....	101 32 15.0	.....	
13	Pr.	.. ....	.. ....	23 30 30.93	.....	101 42 46.5	.....	
14	F.	.. ....	.. ....	23 30 1.24	.....	101 46 4.2	.....	
15	S.	.. ....	.. ....	23 29 32.25	.....	101 49 4.4	.....	
20	P.	.. ....	.. ....	23 27 22.67	.....	102 1 53.1	.....	

DIDO (209)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1879.								
Nov. 10	Pr.	.. ....	.. ....	1 10 29.56	....	77 34 1.1	....	Parallax not applied
13	P.	.. ....	.. ....	1 8 50.22	....	77 41 56.0	....	
14	Pr.	.. ....	.. ....	1 8 19.13	....	77 44 26.1	....	
1885.								
Nov. 16	E.	11 35.3	17 17.6	3 20 52.33	+ 0.84	63 4 9.5	— 18.2	Circ. B. J. No. 261
Dec. 2	E.	10 19.0	16 0.9	3 7 29.46	+ 0.60	63 47 4.7	— 15.9	

ISOLDA (211)

Date.	Observer.	Washington Mean Time.	Berlin Mean Time Corrected for Aberration.	Apparent Right Ascension of Center.	Correction to Ephemeris.	Geocentric N. P. Distance of Center.	Correction to Ephemeris.	Ephemeris, Remarks, etc.
1884.		h m	h m	h m s	s	° ′ ″	″	
Oct. 23	P.	12 6.7	17 54.7	2 18 45.87	+ 6.88	71 11 16.4	— 27.3	Circ. B. J. No. 237
25	S.	11 57.2	17 45.1	2 17 8.90	+ 6.94	71 20 46.2	— 26.5	

THUSNELDA (219)

1880.								
Oct. 13	S.	.. ....	.. ....	1 25 3.78	....	81 35 6.8	....	Parallax not applied
15	W.	.. ....	.. ....	1 23 37.83	....	82 3 40.9	....	
25	S.	.. ....	.. ....	1 16 59.90	....	84 19 6.6	....	
Nov. 1	S.	.. ....	.. ....	1 13 40.29	....	85 29 42.2	....	

EOS (221)

1885.								
Nov. 16	E.	12 1.5	17 46.8	3 47 14.62	+ 9.87	86 40 7.0	— 52.2	Circ. B. J. No. 261
Dec. 2	E.	10 45.8	16 30.7	3 34 26.27	+ 9.78	87 1 11.3	— 40.5	
3	S.	10 41.2	16 26.0	3 33 42.42	+ 9.71	87 1 11.3	— 39.1	
7	S.	10 22.7	16 7.3	3 30 55.53	+ 9.67	86 59 44.9	— 38.3	

ATHAMANTIS (230)

1885.								
June 3	P.	11 25.8	17 15.5	16 17 0.19	....	108 41 24.5	....	Circ. B. J. No. 250
4	W.	11 20.9	17 10.6	16 16 2.43	....	108 35 3.7	....	
11	W.	10 47.0	16 36.5	16 9 36.27	....	107 51 42.7	....	
12	P.	10 42.2	16 31.4	16 8 44.61	....	107 45 44.6	....	

BARBARA (234)

1883.								
Aug. 21	R.	.. ....	.. ....	21 15 53.23	....	105 22 53.9	....	Parallax not applied
23	R.	.. ....	.. ....	21 14 54.30	....	106 0 53.7	....	
24	S.	.. ....	.. ....	21 14 26.10	....	106 19 40.1	....	
25	R.	.. ....	.. ....	21 13 59.32	....	106 38 11.1	....	
27	R.	.. ....	.. ....	21 13 9.11	....	107 14 37.3	....	
31	R.	.. ....	.. ....	21 11 45.31	....	108 24 26.7	....	
Sept. 3	R.	.. ....	.. ....	21 10 59.55	....	109 13 32.6	....	Parallax applied
4	W.	.. ....	.. ....	21 10 48.01	....	109 29 21.1	....	Circ. B. J. No. 212
5	S.	.. ....	.. ....	21 10 38.15	....	109 44 44.8	....	
6	R.	.. ...	.. ....	21 10 30.06	....	109 59 49.8	....	
7	W.	.. ....	.. ....	21 10 24.43	....	110 14 31.4	....	
9	S.	.. ....	.. ....	21 10 18.69	....	110 42 49.9	....	
15	W.	.. ....	.. ....	21 10 51.22	....	111 58 33.6	....	

NEPHTHYS (287)

1889.								
Sept. 21	S.	.. ....	.. ....	.. ..	....	107 20 16.0	....	
Oct. 2	S.	.. ....	.. ....	21 53 23.38	....	108 25 42.9	....	

OBSERVATIONS OF COMETS.

1866–1891.

COMETS.

Date.		Observer.	Apparent Right Ascension.			Apparent North Polar Distance.			Log. *p* Δ	
1874 Coggia, S. P.										
			h	m	s	°	′	″		
1874.										
June	24	Sk.	7	26	3.44	337	39	9.1	......	Not compared with any Ephemeris
	28	F.	7	32	32.32	336	17	42.7	......	
	29	E.	7	34	1.17	335	49	32.2	......	
July	5	E.	7	41	27.58	331	19	26.7	......	
	6	Sk.	7	42	26.34	330	11	16.3	......	
	7	E.	7	43	20.83	328	54	29.7	......	
1880 IV (*e*), Swift.										
1880.										
Oct.	25	E.	21	50	8.71	61	30	58.3	......	Parallax not applied
Nov.	1	E.	22	12	33.28	54	27	14.5	......	
	2	E.	22	16	53.93	53	21	1.1	......	
	7	E.	22	45	6.07	47	33	59.0	......	
	20	E.	1	5	38.65	35	38	20.5	......	
	23	E.	1	49	20.62	35	6	34.5	......	
1881 III (*b*) S. P.										
1881.										
June	26	E.	5	48	38.19	327	40	50.3	0.9436	Parallax not applied
	28	R.	6	0	3.79	333	45	1.5	0.9360	
	29	W.	6	6	49.06	336	19	20.2	0.9311	
July	1	S.	6	22	46.96	340	39	55.3	0.9210	
	2	R.	6	32	8.09	342	28	50.6	0.9159	
	3	W.	6	42	33.00	344	5	13.7	0.9110	
	5	S.	7	6	44.12	346	44	49.8	0.9020	
	6	R.	7	20	36.93	347	49	55.3	0.8980	
	10	R.	8	27	31.69	350	48	54.5	0.8859	
	11	W.	8	46	26.55	...	..	....	......	
	15	W.	10	2	56.27	352	12	57.9	0.8709	
	16	E.	10	20	53.15	352	16	45.8	0.8795	
	18	R.	10	53	57.01	352	15	49.2	0.8795	
	22	R.	11	47	40.09	351	51	43.9	0.8813	
	23	W.	11	58	41.48	351	42	57.2	0.8820	
	27	W.	12	8	17.95	351	3	9.9	0.8849	
	28	E.	12	42	50.48	350	52	42.2	0.8856	
1882 I (*a*), Wells, S. P.										
1882.										
May	23	E:	3	28	28.27	332	33	23.1	0.9378	Parallax not applied
	25	R.	3	45	11.88	329	16	56.1	0.9421	
	26	W.	3	52	22.14	327	33	44.3	0.9437	
1882 II (*b*).										
1882.										
Sept.	19	W.	11	14	18.96	90	34	30.5	0.7478_n	Parallax not applied
	20	S.	11	9	10.94	91	19	23.1	0.7547_n	
Nov.	15	W.	9	27	50.67	114	49	20.8	0.8982_n	
	18	W.	9	21	4.43	115	43	20.7	0.9015_n	
	20	W.	9	16	18.91	116	17	37.3	0.9036_n	
	21	W.	9	13	51.34	116	34	7.7	0.9045_n	
	22	W.	9	11	21.64	116	50	13.1	0.9055_n	
	24	W.	9	6	16.25	117	21	27.4	0.9072_n	
Dec.	3	W.	8	42	.....	119	16	18.1	0.9134_n	

1882 II (*b*).

Date.		Observer.	Apparent Right Ascension.			Apparent North Polar Distance.			Log. $p\,\Delta$	
			h	m	s	°	′	″		
1882.										
Dec.	4	W.	8	38	5.22	119	26	10.6	0.9139$_n$	
	7	W.	8	28	53.33	119	51	59.3	0.9152$_n$	
	11	W.	8	16	21.74	120	16	29.9	0.9164$_n$	
	28	W.	7	22	50.82	119	53	12.3	0.9153$_n$	
	30	W.	7	16	55.38	119	37	24.8	0.9145$_n$	
1883.										
Feb.	1	W.	6	9	4.97	111	55	13.7	0.8865$_n$	Parallax not applied
	28	E.	5	51	45.20	105	16	8.0	0.8542$_n$	
Mar.	3	W.	5	51	17.50	104	38	5.0	0.8505$_n$	

1884 II (*b*).

Date.		Observer.	h	m	s	°	′	″	Log. $p\,\Delta$	
1884.										
Sept.	13	W.	19	12	39.99	120	13	0.2	0.9163$_n$	
	14	W.	19	16	40.11	119	53	56.5	0.9153$_n$	Parallax not applied
	15	S.	19	20	40.22	119	35	7.1	0.9144$_n$	

1884 III (*c*).

Date.		Observer.	h	m	s	°	′	″	Log. $p\,\Delta$	
1884.										
Sept.	23	S.	21	16	53.77	69	0	25.1	0.4296$_n$	Parallax not applied
	24	W.	21	17	28.19	69	27	54.0	0.4403$_n$	
	25	W.	21	18	5.93	69	55	16.6	0.4507$_n$	
	26	S.	21	18	46.86	70	23	13.6	0.4610$_n$	
Oct.	10	P.	21	32	52.83	77	10	5.9	0.5862$_n$	
	13	E.	21	37	2.26	78	37	55.0	0.6083$_n$	
	14	P.	21	38	29.16	79	6	51.9	0.6153$_n$	
	15	E.	21	39	59.67	79	35	41.2	0.6222$_n$	
	18	E.	21	44	44.56	81	1	1.0	0.6416$_n$	
	19	S.	21	46	24.03	81	29	0.8	0.6478$_n$	
	20	P.	21	48	5.65	81	56	41.9	0.6537$_n$	
	21	E.	21	49	49.90	82	24	5.9	0.6595$_n$	
	23	P.	21	53	24.14	83	18	0.1	0.6706$_n$	
Nov.	6	S.	22	21	53.16	88	51	32.3	0.7314$_n$	
	7	P.	22	24	6.80	89	12	0.5	0.7347$_n$	
	8	W.	..	..	.... .	89	31	57.9	0.7380$_n$	
	10	S.	22	30	55.66	90	10	23.8	0.7440$_n$	
	11	P.	22	33	14.28	90	28	55.2	0.7469$_n$	
	12	W.	22	35	34.18	90	46	58.0	0.7497$_n$	
	13	E.	22	37	55.08	91	4	16.7	0.7523$_n$	
	14	S.	22	40	16.26	91	21	17.1	0.7549$_n$	
	15	P.	22	32	39.31	91	27	46.2	0.7574$_n$	
	17	E.	22	47	28.17	92	9	8.0	0.7620$_n$	
	20	W.	22	54	46.93	92	52	30.7	0.7683$_n$	
	21	E.	22	57	15.05	93	5	51.2	0.7702$_n$	
	22	S.	22	59	43.38	93	18	50.6	0.7720$_n$	
	24	W.	23	4	42.75	93	42	14.1	0.7754$_n$	
	29	E.	23	17	19.71	94	35	40.3	0.7825$_n$	
Dec.	2	W.	23	24	58.39	95	1	38.8	0.7860$_n$	
	3	E.	23	27	32.10	95	9	23.4	0.7870$_n$	
	4	S.	23	30	5.61	95	16	41.4	0.7879$_n$	
	7	E.	23	37	48.25	95	36	1.4	0.7905$_n$	
	8	E.	23	40	22.60	95	41	39.5	0.7912$_n$	
	9	P.	23	42	57.04	95	46	51.5	0.7919$_n$	
	15	E.	23	58	26.93	96	9	49.9	0.7948$_n$	
	16	S.	0	1	1.91	96	12	27.4	0.7951$_n$	
	19	E.	0	8	47.24	96	18	4.8	0.7958$_n$	

1887 II, Brooks, s. p.					
Date.	Observer.	Apparent Right Ascension.	Apparent North Polar Distance.	Log. $p \Delta$	
1887.		h m s	° ′ ″		
Jan. 24	P.	18 21 32.70	343 44 24.8	0.9110	Parallax not applied
25	W.	18 33 7.76	344 37 14.7	0.9079	
27	S.	19 0 56.75	346 19 7.5	0.9022	
1889 I.					
1888.					
Oct. 17	W.	6 12 12.91	83 54 16.3	0.6777	Parallax not applied
Nov. 10	W.	4 34 35.76	90 11 9.7	0.7442	
Dec. 6	E.	1 46 16.60	97 4 8.2	0.8016	
13	W.	1 12 57.08	97 35 24.5	0.8055	
14	E.	1 8 51.18	97 37 28.2	0.8057	
1890 II.					
1890.					
June 19	E.	16 18 10.14	24 21 39.7	0.6022	Parallax not applied
23	E.	15 38 42.59	25 14 1.8	0.5890	
24	S.	15 29 43.58	25 33 24.1	0.5839	
25	E.	15 21 7.95	25 54 41.0	0.5783	
26	S.	15 12 56.51	26 17 58.2	0.5720	
27	E.	15 5 7.51	26 42 47.3	0.5653	
28	S.	14 57 42.75	27 13 13.0	0.5567	

PART III.

OBSERVATIONS

WITH THE

SIX-INCH TRANSIT CIRCLE.

1901–1902.

BY

MILTON UPDEGRAFF, Professor of Mathematics, U. S. N.,

ASSISTED BY

J. C. HAMMOND, H. R. MORGAN, AND C. W. FREDERICK.

INTRODUCTION.

By J. C. HAMMOND.

The following pages contain the observations of fixed stars made with the **6**-inch transit circle from November 15, 1901, to December 1, 1902, exclusive of the work done in connection with the Sun, Moon, and planets. During this period, the instrument was under the supervision of Prof. A. N. SKINNER, U. S. Navy, until October 14, 1902, when Prof. W. S. EICHELBERGER, U. S. Navy, assumed charge. It was employed in observing the stars in NEWCOMB'S Suggested List of Fundamental Stars and the lists of heliometer comparison stars proposed by Sir DAVID GILL, H. M. Astronomer, Cape of Good Hope, in his circular of April 2, 1901.

This work was carried on under the immediate supervision of Prof. MILTON UPDEGRAFF, U. S. Navy, until his detachment from the Observatory in September, 1902, and all the observations, except certain lists of the heliometer stars and some circumpolars observed by Computer J. C. HAMMOND, were made by him. In almost every case the observer worked with an assistant, who read the microscopes on Circle A and did the necessary recording. The assistant to Professor UPDEGRAFF was Mr. HAMMOND, except on one night, when Mr. FREDERICK filled that position. The assistant to Mr. HAMMOND was either Computer H. R. MORGAN, or Assistant C. W. FREDERICK. The abbreviations used to designate the observers and assistants are as follows:

U. =M. UPDEGRAFF.
Hd.=J. C. HAMMOND.
Fk.=C. W. FREDERICK.
M. =H. R. MORGAN.

In observing the fundamental stars, it was thought advisable to select first those whose apparent places are given either in the American Ephemeris or the Berliner Jahrbuch, and these were arranged in pairs of approximately equal distances north and south of the zenith. Several such lists, containing in all 155 stars, were observed 5 times in each position of the clamp. Other lists were made up partly of the zero stars from the catalogue of 2,798 zodiacal stars selected by Sir DAVID GILL, and partly of fundamental stars from NEWCOMB'S Suggested List.

DESCRIPTION OF THE INSTRUMENT AND ACCESSORIES.

A full description of the instrument is given in the introduction to Part IV of Volume III, Second Series of the Publications of the United States Naval Observatory. The following particulars may be noted here. During the summer of 1901, the circles were regraduated by the WARNER & SWASEY Company, and were replaced on the instrument before the commencement of the observations. No systematic investigation of the circles has been made to determine the division errors, but the observations of 155 stars, each observed in both positions of the clamp, have been discussed in an effort to derive an approximate value of these errors for Circle A. The probable error of the mean of four microscopes due to division errors for this list is 0″.36 for Circle A and 0″.29 for Circle B. No correction has been applied for division error because the discussion referred to is not to be regarded as a definitive determination.

The bright-field illumination was greatly improved by throwing the light perpendicularly upon the reticule from a small mirror cemented to the center of the inner surface of the object-glass.

The large variation of the azimuth with the temperature was partly removed by substituting cast-iron bed-plates for the original cast-steel ones and by replacing the marble piers with brick ones.

On January 6, 1902, new object-glasses, made by BRASHEAR, were placed in the microscopes. These give much better definition than the original ones.

The sidereal clock used in making all the observations was the HOWARD No. 404. Its rate was not entirely satisfactory, being without compensation for changes in barometric pressure and being under-compensated for temperature changes. This under-compensation affected the rate but little, as the clock was placed in a vault where the temperature remained nearly constant. The work in right ascension is entirely differential, and no discussion of the clock rates has been made.

Barometer and thermometers.—The barometer used, GREEN No. 2876, was hung on the clock pier on the west side of the observing room. This was twice compared with the standard barometer of the U. S. Weather Bureau, through the courtesy of Prof. C. F. MARVIN of that office. The first comparison gave a correction of $-0^{\mathrm{cm}}.01$, which was used in the reductions until May 1, 1902. Subsequent to this date no correction was applied, as the second comparison made at this time showed the existence of no error.

A thermometer, GREEN No. 9361, mounted in the thermometer shelter on the north side of the observing room, was used in determining the correction for refraction. No correction is necessary to the readings of this thermometer.

A thermometer, GREEN No. 3920, was hung over the east microscope bearer, and another, GREEN No. 4195, was inserted in the hollow casting of the west microscope bearer. The former was read whenever the collimation constant was determined, and the latter when readings were taken on the azimuth mark.

METHOD OF OBSERVING.

All transits were observed over the nine central threads of the reticule. They were recorded on the chronograph, except those of stars within eight or ten degrees of the pole, which were observed by eye and ear.

The pointings in declination were made by means of the tangent screw. The first bisection was made over Thread II for a star south of the zenith and over Thread III for a star north. For this bisection the microscopes of Circle A were read by the assistant while the transits were being observed. The second bisection was made over Thread V, and the microscopes of Circle B were read by the observer. When there was no assistant, only one bisection could be made, except in the case of close circumpolar stars.

The minute of each circle reading was taken from Circle A, except on a few nights when only Circle B was read, and the practice was to read on the division next less than the true circle reading. The microscope threads were thus always kept on the same side of the middle tooth of the comb scale. All exceptions to this rule are noted at the bottom of the pages of printed observations.

The seeing was estimated on a scale of five, one indicating the poorest atmospheric conditions and five the best.

THE CONSTANTS OF THE INSTRUMENT.

The azimuth constant.—This constant was determined by readings on the meridian mark, which is situated about 390 feet north of the instrument. Whenever the readings showed a progressive change in this constant during a night's work, the exact values used in reducing the observations of that night have been determined by interpolation. The azimuth of the mark was obtained by observations of circumpolar stars whose positions are well determined. α Ursæ Minoris was observed at upper and lower culminations whenever practicable.

As the values of the azimuth of the mark used in this work were also used in the work published in Part I of this volume, the stars used for the determination of these values having been included in the journal of observations in Part I are not reprinted here except when they have been used in latitude discussions.

The level constant.—This constant was determined by means of a hanging level and also, whenever practicable, by observations over the mercury. In the reductions, the values derived from the hanging level have always been used. A correction, $-0^s.014$ clamp west, has been applied for inequality of the pivots. This correction was obtained from a series of measures of the pivots made with a spherometer-caliper during October, 1900, by Professor UPDEGRAFF and Professor LITTELL.

A comparison of the values of the level constant as determined by the two methods is given in the following table:

Correction for Inequality of Pivots from Observations with Spirit Level and over Mercury.

[Observer U.]

Date.	Clamp.	Nadir Level.	Spirit Level.	Correction for Inequality Clamp W.	Date.	Clamp.	Nadir Level.	Spirit Level.	Correction for Inequality Clamp W.
1901		s	s	s	1902		s	s	s
Nov. 15	W.	−0.057	−0.006	−0.051	Feb. 14	W.	+0.128	+0.154	−0.026
15		−0.079	−0.031	−0.048	14	W.	+0.130	+0.154	−0.024
25		+0.082	+0.085	−0.003	23	E.	+0.002	−0.015	−0.017
25		+0.079	+0.094	−0.015	23		+0.006	−0.038	−0.044
Dec. 1		+0.073	+0.088	−0.015	28		+0.020	+0.016	−0.004
2		+0.113	+0.112	+0.001	28		+0.016	−0.003	−0.019
3		+0.100	+0.087	+0.013	Mar. 2		+0.005	0.000	−0.005
4		+0.133	+0.148	−0.015	2		+0.005	−0.005	−0.010
4		+0.096	+0.108	−0.012	6		+0.028	+0.004	−0.024
5		+0.081	+0.090	−0.009	6		+0.028	−0.001	−0.029
5		+0.102	+0.081	+0.021	14		+0.023	−0.003	−0.026
6		+0.131	+0.150	−0.019	14	E.	+0.030	−0.014	−0.044
6		+0.164	+0.161	+0.003	May 8	W.	−0.082	−0.060	−0.022
7		+0.173	+0.219	−0.046	9		−0.106	−0.068	−0.038
7		+0.184	+0.193	−0.009	12		−0.075	−0.036	−0.039
8		+0.068	+0.070	−0.002	29		−0.119	−0.086	−0.033
8		+0.072	+0.069	+0.003	29		−0.129	−0.092	−0.037
8		+0.053	+0.094	−0.041	29		−0.159	−0.110	−0.049
9	W.	+0.067	+0.078	−0.011	30		−0.116	−0.109	−0.007
10	E.	+0.045	+0.026	−0.019	30		−0.116	−0.101	−0.015
11		+0.037	+0.021	-0.016	30		−0.108	−0.092	−0.016
22		+0.029	−0.004	−0.033	June 1		−0.110	−0.098	−0.012
22		+0.018	+0.010	−0.008	1		−0.113	−0.096	−0.017
27		+0.007	0.000	−0.007	1		−0.129	−0.091	−0.038
27		+0.012	−0.002	−0.014	2		−0.084	−0.052	−0.032
31		+0.052	+0.013	−0.039	2		−0.090	−0.071	−0.019
31		+0.029	−0.003	−0.032	2		−0.101	−0.071	−0.030
31		+0.015	−0.024	−0.039	4		−0.104	−0.062	−0.042
1902 Jan. 16		−0.113	−0.118	−0.005	4		−0.113	−0.074	−0.039
16	E.	−0.097	−0.100	−0.003	4	W.	−0.145	−0.130	−0.015
Feb. 2	W.	+0.111	+0.112	−0.001	5	E.	−0.033	−0.077	−0.044
2		+0.104	+0.142	−0.038	5		−0.028	−0.058	−0.030
2		+0.096	+0.191	−0.095	6		−0.041	−0.085	−0.044
6		+0.113	+0.183	−0.070	6		−0.046	−0.076	−0.030
6		+0.106	+0.143	−0.037	6		−0.058	−0.088	−0.030
7		+0.150	+0.188	−0.038	8	E.	−0.055	−0.079	−0.024
7		+0.142	+0.171	−0.029					
8	W.	+0.108	+0.140	−0.032					

Correction for Inequality of Pivots from Observations with Spirit Level and over Mercury—Continued.

[Observer U.]

Date.	Clamp.	Nadir Level.	Spirit Level.	Correction for Inequality Clamp W.	Date.	Clamp.	Nadir Level.	Spirit Level.	Correction for Inequality Clamp W.
1902		s	s	s	1902		s	s	s
June 8	E.	−0.049	−0.069	−0.020	July 12	E.	−0.110	−0.127	−0.017
9		−0.084	−0.115	−0.031	22		−0.118	−0.128	−0.010
10		−0.047	−0.077	−0.030	26		−0.098	−0.124	−0.026
10		−0.053	−0.072	−0.019	27		−0.052	−0.086	−0.034
10		−0.055	−0.089	−0.034	28		−0.062	−0.070	−0.008
21		−0.075	−0.085	−0.010	31		−0.045	−0.068	−0.023
23		−0.089	−0.127	−0.038	Aug. 2		−0.021	−0.072	−0.051
23		−0.067	−0.106	−0.039	2		−0.032	−0.062	−0.030
26		−0.094	−0.086	+0.008	3		−0.010	−0.077	−0.067
26		−0.104	−0.082	+0.022	4		−0.063	−0.079	−0.016
July 8		−0.036	−0.060	−0.024	4		−0.056	−0.078	−0.022
8		−0.024	−0.065	−0.041	7		−0.086	−0.139	−0.053
9		−0.043	−0.068	−0.025	7	E.	−0.091	−0.115	−0.024
10		−0.123	−0.087	+0.036	30	W.	−0.014	+0.018	−0.032
10		−0.073	−0.090	−0.017	30		−0.024	+0.010	−0.034
11		−0.121	−0.146	−0.025	31		+0.025	+0.043	−0.018
11		−0.116	−0.115	+0.001	Sept. 1		+0.009	+0.029	−0.020
12	E.	−0.130	−0.152	−0.022	1	W.	−0.005	+0.031	−0.036

The mean of the 110 determinations of the inequality of the pivots in the table is $-0^s.024 \pm 0^s.0012$, which would seem to indicate that the correction applied was too small.

The collimation constant.—The collimation constant was determined usually twice a night by means of the collimators, the mean being adopted in reducing the work of that night. The values of the instrumental constants a, b, and c_0' together with the adopted values of c_0' and n are given in TABLE IV, page C XIX. The constant c_0' is the collimation of the mean of the nine threads, with a correction for diurnal aberration.

The adopted values of the azimuth of the mark are contained in TABLE III, page C XIX.

The nadir points of the circles.—These were determined at least twice during each night's work. When the declinations were reduced from the nadir, the mean of the zenith point corrections determined on any night was used in reducing the work of that night unless the range exceeded one-half a second of arc, in which case interpolated values were used. A record of the nadir points is contained in TABLE V, page C XXX.

Error of runs.—The microscopes of each circle were kept adjusted so that the mean error of runs of the four microscopes of either was small and no correction for it has been applied to the observations.

Inclination of the fixed horizontal threads.—This has been frequently determined by bisecting a star over Thread I and again over Thread VII, reading the circles at each bisection. The adopted values of the correction for inclination are given in TABLE II, page C XVIII.

Equatorial thread intervals of the reticule.—These were determined from a series of observations made for this purpose during November and December, 1901. As no change was made in the reticule, the values obtained were used throughout the entire period. The adopted values of the equatorial intervals to reduce to the mean of the nine threads b_2 to d_2 are given in TABLE I, page C XVIII.

Horizontal flexure.—The following values of the horizontal flexure were determined by means of the horizontal collimators:

Date.		Temp.	Clamp.	Circle A.		Flexure.	Circle B.		Flexure.
				North Coll.	South Coll.		North Coll.	South Coll.	
1901		°		″	″	″	″	″	″
Nov.	22	38.0	W.	43.25	44.06	0.40	34.94	33.98	0.48
	22	39.0	W.	43.28	44.22	0.47	34.94	33.65	0.64
1902									
Jan.	31	....	W.	3.78	4.62	0.42	39.58	38.75	0.42
	31	29.2	W.	3.99	4.76	0.38	39.40	38.54	0.43
Feb.	1	31.2	W.	4.29	4.82	0.26	39.00	38.30	0.35
	1	....	W.	4.33	5.32	0.50	38.80	38.18	0.31
	1	....	W.	4.65	5.16	0.26	38.72	38.17	0.28
	20	29.5	E.	55.12	54.90	0.11	50.72	51.26	0.27
	20	30.2	E.	55.23	55.04	0.10	51.08	51.41	0.16

The effect of the flexure is to increase apparent nadir distances or to diminish apparent zenith distances.

The mean value for the flexure is

″ ″
0.40±0.026 clamp west,
0.16±0.020 clamp east.

Division errors.—The following is a discussion of the periodic division errors of Circle A as derived from the observations mentioned on page C IV. The declinations of these stars were reduced from the nadir and the same nadir divisions were used in both positions of the clamp. Therefore, if we neglect the accidental errors of observation, the difference in the observed declination of any star, clamp east minus clamp west if the star is at upper culmination, and vice versa if at lower, will be the algebraic sum of the division errors of the two sets of divisions read, referred to the nadir divisions, which are the 56′ divisions with 179° under the setting microscope. As the stars used were too few to make a determination for all of the divisions, it was assumed that the period was one degree or some fraction thereof, and the stars were all arranged according to the minute divisions read, without reference to the degrees of the circle reading.

The sum of the circle readings of a star for the two positions of the clamp is either 359°52′ or 359°54′, and the different combinations which occur, with the differences for each star, are given in the following table. No stars have been included in which there was any uncertainty as to the divisions read.

Name.		Δδ
	0′–52′	″
η	Ursæ Minoris s. p.	+2.58
S	Monocerotis	+0.13
λ	Ursæ Minoris s. p.	+1.42
ι	Geminorum	+1.20
12	Canum Venat.	+1.58
19 H.	Camelop. s. p.	+0.24
	Mean	+1.19
	2′–50′	
θ	Persei	+0.70
47 H.	Cephei	+0.36
5 H.	Camelop.	+0.58
A	Tauri	+2.47
τ	Virginis	+1.24
33	Bootis	+1.94
θ	Draconis	+1.90
α	Scorpii	+2.68
	Mean	+1.48
	4′–48′	
δ	Canis Majoris	+0.78
27	Lyncis	+1.02
25	Canum Venat.	+0.36
	Mean	+0.72
	6′–46′	
π	Ceti	+0.10
35 B.	Camelop.	−0.20
ε	Orionis	−1.84
ζ	Ursæ Minoris	−0.82
	Mean	−0.69
	8′–44′	
43 H.	Cephei	+0.64
χ	Aurigæ	+0.90
α	Leporis	−0.06
μ	Bootis	+0.64
	Mean	+0.53
	10′–42′	
61 B.	Draconis	+2.30
δ	Scorpii	+0.62
151 H^1.	Cephei s. p.	+1.30
49	Herculis	+3.53
	Mean	+1.94
	12′–40′	
γ	Cassiopeiæ	+2.43
23 H.	Camelop.	+0.47
51 H.	Cephei	−0.07
π	Geminorum	+2.27
ω^1	Cancri	+2.45
ε	Ursæ Minoris	+2.18
	Mean	+1.62
	16′–36′	″
43 H.	Cephei s. p.	−0.50
	18′–34′	
151 H^1.	Cephei	+1.24
π5	Orionis	−0.16
κ	Cephei s. p.	+0.95
d	Bootis	+1.10
γ	Libræ	+0.02
ε	Ophiuchi	+0.48
	Mean	+0.60
	20′–32′	
12	Ceti	+1.92
η	Ceti	+0.73
δ	Tauri	+3.20
α	Tauri	+3.66
53	Eridani	+1.58
18	Monocerotis	+1.26
109	Virginis	+1.06
	Mean	+1.92
	22′–30′	
ε	Sculptoris	+2.26
	24′–28′	
c	Persei	+0.22
δ	Draconis s. p.	+0.68
19	Lyncis	−0.10
α	Libræ	+0.04
κ	Serpentis	+1.08
γ	Herculis	+0.52
	Mean	+0.41
	54′–58′	
ι	Cassiopeiæ	−0.54
τ	Bootis	+0.80
η	Bootis	+0.10
114 B.	Draconis	+0.70
	Mean	+0.26
	56′–56′	
δ	Ceti	−1.22
α	Columbæ	−0.62
	Mean	−0.92
	0′–54′	
μ	Fornacis	+1.20
41	Arietis	+0.60
ζ	Ursæ Minoris s. p.	+0.78
ε	Tauri	+1.08
A	Draconis s. p.	+0.30
17	Camelop.	+2.10
ρ	Geminorum	+0.98
η	Ursæ Minoris	+0.32
	Mean	+0.92
	2′–52′	″
ν	Piscium	+1.99
5	Ursæ Minoris s. p.	+3.11
19	Ursæ Minoris s. p.	+2.56
ξ	Geminorum	+2.29
ρ	Argus	+1.00
α	Draconis	+2.64
4	Ursæ Minoris	+1.24
	Mean	+2.12
	4′–50′	
β	Eridani	+1.27
173 B.	Camelop.	+0.18
m	Virginis	+0.88
	Mean	+0.78
	6′–48′	
α	Ursæ Minoris	−1.44
κ	Fornacis	−0.10
ε	Ursæ Minoris s. p.	−1.72
χ	Geminorum	−0.93
β	Bootis	−0.02
	Mean	−0.84
	8′–46′	
6 B.	Ursæ Minoris s. p.	−0.36
ζ	Andromedæ	+0.74
f	Piscium	−0.11
ε	Persei	0.00
ν	Tauri	+0.02
η	Aurigæ	+1.04
α	Geminorum	+0.40
λ	Virginis	−0.94
γ	Bootis	−0.24
β	Serpentis	+1.62
σ^2	Coronæ Borealis	+0.18
η	Herculis	−0.18
	Mean	+0.18
	10′–44′	
o	Tauri	−0.94
1 H.	Ursæ Minoris	−0.52
β	Herculis	+1.00
d	Herculis	+1.52
	Mean	+0.26
	12′–42′	
9	Camelop.	+2.40
166 B.	Camelop.	+2.18
ν^1	Bootis	+2.60
	Mean	+2.39
	14′–40′	
ζ	Ceti	−0.51
α	Ursæ Minoris s. p.	−0.04
σ	Herculis	+1.72
35 B.	Camelop. s. p.	+1.20
	Mean	+0.59
	16′–38′	″
1 H.	Ursæ Minoris s. p.	+0.21
f	Tauri	+0.40
ε	Eridani	−0.82
γ	Eridani	+0.30
	Mean	+0.02
	18′–36′	
β	Persei	+0.22
4	Camelop.	+0.66
	Mean	+0.44
	20′–34′	
40	Cassiopeiæ	+0 42
κ	Orionis	−0.64
η	Geminorum	+1.18
15	Lyncis	+0.84
θ	Bootis	+1.98
ι	Draconis	+0.92
κ	Ophiuchi	−0.84
	Mean	+0.55
	22′–32′	
θ	Ceti	+2.25
β	Arietis	+2.69
α	Persei	+1.50
	Mean	+2.15
	24′–30′	
τ	Persei	+1.50
ρ	Persei	+0.92
48 H.	Cephei	−0.22
δ	Persei	−0.26
μ	Aurigæ	+0.84
51	Aurigæ	+0.62
γ	Hydræ	−0.22
89	Virginis	−0.36
	Mean	+0.35
	26′–28′	
44	Piscium	−0.34
21	Cassiopeiæ	−0.22
γ	Trianguli	+0.46
ξ	Tauri	−1.42
γ	Tauri	+1.56
	Mean	+0.01
	56′–58′	
50	Cassiopeiæ	−0.52
11 H^1.	Camelop.	+1.46
β	Aurigæ	+0.63
24	Lyncis	+0.46
47 H.	Cephei s. p.	−1.48
	Mean	+0.11

By comparing the results for the different sets, it is noticeable that the differences for the sets that are 10′ apart, or some multiple of this, are quite accordant, as for instance the sets (2′—52′), (12′—42′), and (22′—32′). This would indicate that the period is 10′ or some fraction thereof. Assuming this to be the case, the stars were all grouped into one 10′ space. The following table gives the different combinations which can occur together with the individual results and the mean result in each group. The mean of each set is weighted according to the number of stars composing it:

0′—2′		0′—4′		2′—2′		4′—8′		6′—6′		6′—8′	
$\Delta\delta$	Wt.	$\Delta\delta$	Wt.	$\Delta\delta$	Wt.	$\Delta\delta$	Wt.	$\Delta\delta$	Wt.	$\Delta\delta$	Wt.
″		″		″		″		″		″	
+1.19	6	+0.92	8	+2.12	7	+0.72	3	−0.69	4	−0.84	5
+1.48	8	+0.78	3	+2.39	3	+0.53	4	−0.50	1	+0.18	12
+1.94	4	+0.26	4	+2.15	3	+0.60	6	−0.92	2	+0.02	4
+1.62	6	+0.59	4	....	.	+0.41	6	....	.	+0.44	2
+1.92	7	+0.55	7	....	.	+0.26	4	....	.	+0.01	5
+2.26	1	+0.35	8	....	.	....	.	....	.	+0.11	5
+1.63	.	+0.58	.	+2.19	.	+0.49	.	−0.73	.	−0.01	.

Let e_0=correction for the division error of the 0′, 10′, 20′, 30′, 40′ and 50′ divisions.
“ e_2= “ “ “ “ “ “ “ 2′, 12′, 22′, 32′, 42′ “ 52′ “
“ e_4= “ “ “ “ “ “ “ 4′, 14′, 24′, 34′, 44′ “ 54′ “
“ e_6= “ “ “ “ “ “ “ 6′, 16′, 26′, 36′, 46′ “ 56′ “
“ e_8= “ “ “ “ “ “ “ 8′, 18′, 28′, 38′, 48′ “ 58′ “

Then we have the following equations:

$$\begin{array}{ll} & v \\ \quad '' & '' \\ e_0+e_2=+1.63 & +0.01 \\ e_0+e_4=+0.58 & -0.02 \\ 2e_2 \quad =+2.19 & -0.01 \\ e_4+e_8=+0.49 & +0.02 \\ 2e_6 \quad =-0.73 & +0.01 \\ e_6+e_8=-0.01 & -0.02 \end{array}$$

Solving these equations by the method of least squares, regarding them as having equal weights, we have as the values of the unknowns:

$$e_0=+0''.51;\ e_2=+1''.10;\ e_4=+0''.09;\ e_6=-0''.37,\text{ and } e_8=+0''.38.$$

These are the corrections for the mean periodic division errors of each of the 2′ divisions for the mean of four microscopes under the assumption of a 10′ period. The results are, of course, affected by the accidental errors belonging to the divisions used, but it is hoped that the latter are small and that their effect is to a large extent eliminated by the use of the large number of divisions. The residuals, obtained by substituting the values of the unknowns in each equation, are given in the column *v*.

RESULTS OF OBSERVATIONS FOR PERSONAL EQUATION.

Effect of star magnitudes.—Two series of observations, with wire screens, to determine the magnitude equation were made, one in February and March, 1902, by Professor UPDEGRAFF, and the other a year later by Mr. HAMMOND. In the first series one, two, or three screens were used, according to the brightness of the star, but in the second series stars of magnitude 3–5 were chosen and only one screen was used. Each star was observed over 11 threads, being screened over the middle tally of 5 threads (*c*) and the outside tallies of 3 threads each (*b* and *d*) on alternate nights. The estimated decrease in magnitude produced by one screen was 3.6 and by two screens 5.6. Not enough observations with three screens were made to furnish reliable results

Summary of Results of Screen Observations.

[Faint minus Bright.]

Observer.	One Screen.				Two Screens.			
	On *c*.	No of Obs.	On *b* and *d*.	No. of Obs.	On *c*.	No. of Obs.	On *b* and *d*.	No. of Obs.
	s		s		s		s	
U.	+0.014	32	+0.020	30	+0.029	36	+0.050	34
Hd.	+0.062	68	+0.029	60	.....	..	.....	..

The differences, faint minus bright, seemed to be systematically smaller with the screen on *c* for observer U. and larger for Hd. This may be a personal error, or it may be that during the interval of time between the two series of observations a change had taken place in the thread intervals of the reticule.

Effect of position of the observer.—During the year 16 stars which culminate near the zenith were observed by Professor UPDEGRAFF alternately head north and head south. Half of the stars were observed head north and the other half head south on one night and on the following night the position was reversed.

The observations in right ascension were referred to zero stars near the equator which were consequently all observed head north. In declination the observations were all reduced from the nadir, which was always taken facing north. The results taken in the sense head north minus head south are given in the following tables.

Differences in Right Ascension.

[Head North minus Head South.]

Star.	Clamp W.	Clamp E.	Star.	Clamp W.	Clamp E.
	s	s		s	s
B. D.+37° 151	−0.04	+0.03	B. D.+37° 1660	0.00	+0.02
B. D.+36° 201	+0.05	0.00	B. D.+40° 1903	−0.01	+0.03
B. D.+40° 249	+0.01	−0.02	B. D.+40° 2701	+0.03	+0.04
B. D.+42° 288	+0.04	−0.04	B. D.+41° 2592	+0.01	−0.03
B. D.+35° 860	−0.01	+0.04	B. D.+38° 2678	+0.05	−0.04
B. D.+39° 1013	+0.04	−0.06	ζ Coronæ Borealis	+0.01	−0.03
B. D.+37° 1175	0.00	+0.04	B. D.+39° 2901	−0.02	+0.02
B. D.+40° 1369	+0.04	+0.04	B. D.+38° 2712	+0.01	−0.02

Mean Difference $+0^{s}.013 \pm 0^{s}.004$ clamp west.
$+0.001 \pm 0.007$ clamp east.

Differences in Declination.

[Head North minus Head South.]

Circle A.					
Star.	Clamp W.	Clamp E.	Star.	Clamp W.	Clamp E.
	″	″		″	″
B. D.+37° 151	+0.7	−0.1	B. D.+37° 1660	+0.2	+0.3
B. D.+36° 201	+0.6	−0.4	B. D.+40° 1903	+0.6	+0.8
B. D.+40° 249	−0.2	+0.2	B. D.+40° 2701	+0.5	+0.8
B. D.+42° 288	0.0	+0.9	B. D.+41° 2592	+0.3	+1.4
B. D.+35° 860	+1.2	+0.6	B. D.+38° 2678	+0.4	+0.1
B. D.+39° 1013	−0.6	+0.2	ζ Coronæ Borealis	+0.6	−0.3
B. D.+37° 1175	+0.3	−0.8	B. D.+39° 2901	+0.6	+0.4
B. D.+40° 1369	+0.7	+1.3	B. D.+38° 2712	+0.4	+0.4

Mean Difference $+0''.39 \pm 0''.06$ clamp west.
$+0.36 \pm 0.10$ clamp east.

Differences in Declination—Continued.

[Head North minus Head South.]

Circle B.

Star.	Clamp W.	Clamp E.	Star.	Clamp W.	Clamp E.
	″	″		″	″
B. D.+37° 151	+1.1	0.0	B. D.+37° 1660	+0.4	+0.4
B. D.+36° 201	+0.8	0.0	B. D.+40° 1903	+0.4	+1.0
B. D.+40° 249	+1.2	+0.8	B. D.+40° 2701	+1.3	+0.6
B. D.+42° 288	+0.9	+0.6	B. D.+41° 2592	+0.1	+0.8
B. D.+35° 860	+0.4	+0.1	B. D.+38° 2678	+0.7	+0.3
B. D.+39° 1013	−0.2	0.0	ζ Coronæ Borealis	+0.8	+0.2
B. D.+37° 1175	+0.2	+0.7	B. D.+39° 2901	−0.1	+0.3
B. D.+40° 1369	+0.5	+0.7	B. D.+38° 2712	+0.4	+0.6

Mean Difference +0″.55±0″.08 clamp west.
+0.44±0.06 clamp east.

The differences in right ascension are not very accordant but show that the personal equation for Professor Updegraff in this coordinate is small.

In declination, there is a difference of about 0″.4 in the measured position of a star head north and head south, which agrees very well with previous results.

Similar observations were made on six different occasions to ascertain the effect of the observer's position in determining the nadir. A complete nadir was taken facing north, then two facing south, and finally one facing north again. The seconds of the results are given in the following table:

Date	Circle A.			Circle B.		
	Nadir.		North minus South.	Nadir.		North minus South.
	Facing N.	Facing S.		Facing N.	Facing S.	
1902	″	″	″	″	″	″
Jan. 31	27.10	27.30	−0.20	16.27	16.12	+0.15
Feb. 1	27.16	27.42	−0.26	15.98	15.94	+0.04
20	35.58	35.34	+0.24	10.61	10.78	−0.17
21	35.42	35.14	+0.28	10.56	10.71	−0.15
28	40.02	39.96	+0.06	6.44	6.46	−0.02
Sept. 13	31.46	31.50	−0.04	3.93	3.82	+0.11
		Mean	+0.01		Mean	−0.01

The above differences show clearly that the personal equation in observing the nadir is negligible for Professor Updegraff.

RESULTS OF OBSERVATIONS OF CIRCUMPOLAR STARS FOR LATITUDE.

From observations of circumpolar stars, made for the purpose of determining the azimuth of the mark, the following values of the latitude have been deduced. A correction for variation of latitude, derived from the tables of ALBRECHT published in A. N. Nos. 3808 and 3875, has been applied to each observation and the mean latitude φ_0 is given. No correction has been applied for flexure, division error, or bisection error.

Star.	Epoch.	Observer.	Clamp.	Latitude.		Prob. Error.		No. of Obs.
				Circle A.	B.	A.	B.	
				° ′ ″	″	″	″	
α Ursæ Minoris	1901.91	U.	W.	38 55 13.33	14.25	±0.08	±0.10	12
α Ursæ Minoris s. p.....	1902.26	U. Hd.	W.	14.29	13.55	±0.10	±0.06	23
α Ursæ Minoris	1901.99	U. Hd.	E.	14.52	14.87	±0.06	±0.10	9
α Ursæ Minoris s. p.....	1902.20	U. Hd.	E.	13.58	13.68	±0.07	±0.08	21
λ Ursæ Minoris	1902.67	U.	W.	13.38	14.40	±0.22	±0.09	6
λ Ursæ Minoris s. p.....	1902.11	U.	W.	14.30	14.35	±0.11	±0.06	4
λ Ursæ Minoris	1902.63	Hd.	E.	13.60	14.29	±0.14	±0.09	9
λ Ursæ Minoris s. p.....	1902.16	U.	E.	13.22	13.95	±0.14	±0.17	4
151 H^{I}. Cephei	1902.08	U.	W.	15.34	15.02	±0.10	±0.05	5
151 H^{I}. Cephei	1902.04	U.	E.	14.18	15.58	±0.08	±0.18	4
151 H^{I}. Cephei s. p........	1902.54	U.	E.	13.52	13.57	±0.11	±0.10	13

The means, above and below pole, are as follows:

Star.	Epoch.	Clamp.	Latitude.		Prob. Error.		Wt.
			Circle A.	B.	A.	B.	
			° ′ ″	″	″	″	
α Ursæ Minoris.........	1902.08	W.	38 55 13.81	13.90	±0.32	±0.24	3
α Ursæ Minoris.........	1902.10	E.	14.05	14.28	±0.32	±0.40	3
λ Ursæ Minoris.........	1902.39	W.	13.84	14.38	±0.31	±0.03	2
λ Ursæ Minoris.........	1902.40	E.	13.41	14.12	±0.13	±0.12	2
151 H^{I}. Cephei	1902.29	E.	13.85	14.58	±0.22	±0.67	1

	° ′ A. ″	B. ″
Clamp west; $\varphi_0 =$	38 55 13.82;	14.09.
Clamp east;	13.80;	14.28.
½ (west+east)	13.81;	14.19.
½ (A+B)	14.00.	

$$\varphi_0 = 38^\circ\ 55'\ 14''.00.$$

A number of other circumpolar stars were observed during the winter of 1902 both at upper and lower culmination for a fundamental determination of their positions. These observations were made in the early morning and evening. The observer had no assistant and therefore only one circle was read. The value of the mean latitude derived from these observations is given in the table below. The clamp was east on all nights but one, and the observations on that night have been omitted in the determination of the latitude.

[Observer Hd.]

Star.	Epoch.	Clamp.	R. A.	Latitude.		No. of Obs.
				Circle A.	B.	
	1902+		h m	° ′ ″	″	
319 B. Cephei	0.02	E.	0 32	38 55 14.50	.....	4
21 Cassiopeiæ	0.02		0 39	14.05	.....	4
43 H. Cephei	0.02		0 55	14.34	.....	5
50 Cassiopeiæ	0.01		1 55	13.55	.....	4
128 H^1. Camelopardalis	0.02		11 59	13.42	.....	4
4 H. Draconis	0.02		12 7	14.20	.....	4
5 B. Ursæ Minoris	0.02		12 13	13.68	.....	4
κ Draconis	0.02		12 29	14.70	.....	4
32^2 H. Camelopardalis	0.02		12 48	14.22	.....	5
13 B. Ursæ Minoris	0.01		13 34	14.20	.....	4
4 Ursæ Minoris	0.01		14 9	13.52	.....	5
50 H. Cephei	0.19		4 41	.....	13.65	2
19 H. Camelopardalis	0.20		5 6	.....	14.08	6
74 B. Camelopardalis	0.20		5 26	.....	14.80	6
158 H^1. Cephei	0.20		5 30	.....	14.57	6
24 H. Camelopardalis	0.23		6 45	.....	14.60	3
51 H. Cephei	0.23		6 54	.....	14.40	4
ε Ursæ Minoris	0.20		16 55	.....	14.35	6
ω Draconis	0.19		17 37	.....	14.44	5
ψ^1 Draconis	0.20		17 43	.....	14.40	6
35 Draconis	0.20		17 53	.....	14.83	6
δ Ursæ Minoris	0.21		18 3	.....	14.56	10
χ Draconis	0.23	E.	18 22	......	14.40	4

A B
° ′ ″ ″ ″ ″
Mean φ_0=38 55 14.03±0.31; 14.42±0.18.

The resulting latitude from this list is 38° 55′ 14″.22±0″.13.

OBSERVATIONS OF STARS.

List I.—These stars comprise the 8 lists of heliometer comparison stars* proposed by Sir DAVID GILL, H. M. Astronomer, Cape of Good Hope, in his circular of April 2, 1901. The observations are differential in both right ascension and declination, the positions of the fundamental stars being taken from NEWCOMB'S Catalogue of Fundamental Stars. The intention was to observe each star three times in each position of the clamp and the instrument was reversed during each series except that for Uranus.

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*B. D.—0°2605 and C. P. D.—24°6555 were too faint for observation.

The probable error of a single observation is

$$\text{in } \alpha \pm 0^s.017 \sec \delta,$$
$$\text{in } \delta \begin{cases} \pm 0''.28 \text{ for Circle A,} \\ \pm 0''.28 \text{ for Circle B.} \end{cases}$$

The probable errors in declination do not include the effect of division error and no correction for the latter has been applied.

List II.—This comprises 264 stars from NEWCOMB'S Suggested List of Fundamental Stars, 17 stars from GILL'S Catalogue of 2,798 Zodiacal Stars, which are not contained in NEWCOMB, and 16 miscellaneous stars. Of these stars, 155 were observed five times in each position of the clamp. The remainder were observed from one to five times each without reversal.

The observations in declination were reduced from the nadir with an assumed latitude of 38° 55′ 14″.00. For clock corrections, those stars were chosen whose positions were well determined and whose declinations were between $-15°$ and $+39°$. These corrections were plotted for each night's work, and a line drawn which best satisfied all the points.

The probable error of a single observation is

$$\text{in } \alpha \pm 0^s.012 \sec \delta,$$
$$\text{in } \delta \begin{cases} \pm 0''.25 \text{ for Circle A,} \\ \pm 0''.25 \text{ for Circle B.} \end{cases}$$

List III.—These stars were chosen from NEWCOMB'S Suggested List of Fundamental Stars, except 50 H. Cephei, which was taken from M. DITCHENKO'S list of 123 Circumpolar Stars, and all stars with declination greater than 70° were observed at both upper and lower culminations on the same night, if possible. The work was done in the winter, in the early evening and morning. The clock corrections were determined from stars near the equator, about two an hour being observed for this purpose. The declinations were reduced from the nadir with the same assumed latitude as for the previous lists.

The probable error of a single observation is

$$\text{in } \alpha \begin{cases} \pm 0^s.013 \sec \delta \text{ at upper culmination,} \\ \pm 0^s.013 \sec \delta \text{ at lower culmination,} \end{cases}$$
$$\text{in } \delta \begin{cases} \pm 0''.24 \text{ at upper culmination,} \\ \pm 0''.31 \text{ at lower culmination.} \end{cases}$$

This increase in the value of the probable error in δ at lower culmination is probably due to the greater unsteadiness of the seeing at the lower altitudes.

The mean of the differences in the values of the right ascensions at upper and at lower culmination is 0ˢ.000, which tends to show that there was no personal equation due to the direction in which the star traveled across the field of the telescope.

TABLES.

At the end of this introduction may be found the following tables:

TABLE I.—The equatorial thread intervals.

TABLE II.—The correction for the inclination of the fixed zenith distance threads.

TABLE III.—The adopted azimuth of the north meridian mark.

TABLE IV.—The record of the constants a, b, c_0', and n. BESSEL'S formula for reducing right ascensions has been used;

$$\alpha = T + \varDelta T + m + n \tan \delta + c \sec \delta.$$

TABLE V.—The nadir points of the circles.

EXPLANATION OF THE PRINTED OBSERVATIONS, PP. C 1–C 84.

The first column gives the number on the page for convenience of reference.

The second column gives the name of the star.

The third column gives the number of threads over which transits were taken.

The fourth column gives the mean of the times of transit over the threads observed, reduced to the position of the mean of the nine threads b_2 to d_2. The hour has been omitted.

The fifth column gives for each star the portion of the instrumental correction depending on its declination in BESSEL'S formula for reducing transit circle observations,

$$m + n \tan \delta + c \sec \delta.$$

The sixth column gives the clock correction plus that portion of the instrumental correction independent of the star's declination. The quantities in this column in heavy-face type are observed values derived from the ephemeris stars. For each night's work the simplest curve that most nearly satisfied these observed quantities was plotted on square-ruled paper, and from this curve was read, for each miscellaneous star, the quantity in light-face type. When the observed $\varDelta T + m$ is inclosed in brackets it has not been used in deriving an adopted $\varDelta T + m$.

The seventh column gives the apparent right ascension.

The eighth column gives the correction necessary to reduce the apparent right ascension to the mean right ascension for 1902.0, given on pages C 85–C 118.

The ninth column gives the circle reading. When both circles were read, the degrees, minutes, and seconds for Circle A and the seconds only for Circle B are given. The seconds are the means of the readings of four microscopes. The position in the field at which the bisection is made is stated at the bottom of the page. When two bisections were made, the microscopes of Circle A were read on the first.

The tenth column gives the correction for refraction computed from the Pulkowa tables. The meteorological record may be found at the lower left-hand corner of each page.

The eleventh column gives the apparent declination. When both circles were read, the declination as derived from Circle A is given in degrees, minutes, and seconds, but for Circle B the seconds only are given, it not being necessary to repeat the degrees and minutes. The adopted zenith or equator point corrections may be found at the bottom of the page, the seconds of the zenith-point correction, as derived from stars, being in the column to the right.

The twelfth column gives the correction necessary to reduce the apparent declination to the mean declination for 1902.0, given on pages C 85–C 118.

The notes found at the bottom of the page are referred to the proper star by reference number.

Under *Results of Observations*, the means of the individual results for each star are given separately for each clamp and each circle.

TABLE I.—*The Equatorial Thread Intervals.*

Clamp West.

Vertical Thread.		Reduction to Mean of b_2 to d_2.
		s
I		+35.88
II		23.89
III	b_1	11.965
	b_2	9.397
	b_3	7.768
	c_1	4.188
	c_2	+ 2.080
IV	c_3	− 0.009
	c_4	2.103
	c_5	4.188
	d_1	7.771
	d_2	9.364
V	d_3	12.073
VI		23.94
VII		−35.82

TABLE II.—*The Correction for the Inclination of the Fixed Zenith Distance Threads.*

Vertical Thread.	Nov. 15, 1901, to Dec. 9, 1901.	Dec. 10, 1901, to Jan. 16, 1902.	Jan. 17, 1902, to Feb. 14, 1902.	Feb. 23, 1902, to Apr. 16, 1902.	Apr. 17, 1902, to June 4, 1902.	June 5, 1902, to June 26, 1902.	July 8, 1902, to Dec. 1, 1902.
	″	″	″	″	″	″	″
I	−0.18	0.00	−0.15	+0.15	−0.20	+0.12	0.00
II	−0.12	0.00	−0.10	+0.10	−0.14	+0.08	0.00
III	−0.06	0.00	−0.05	+0.05	−0.07	+0.04	0.00
IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V	+0.06	0.00	+0.05	−0.05	+0.07	−0.04	0.00
VI	+0.12	0.00	+0.10	−0.10	+0.14	−0.08	0.00
VII	+0.18	0.00	+0.15	−0.15	+0.20	−0.12	0.00

TABLE III.—*The Adopted Azimuth of the North Meridian Mark.*

Period.	Observer.	Clamp.	Adopted A_m.	No. Obs'ns.
			s	
Nov. 15 to Dec. 9, 1901	U.	W.	+0. 470	16
Dec. 10, 1901, to Jan. 9, 1902	U.	E.	0. 447	14
Jan. 11 to Jan. 16, 1902	U.	E.	0. 448	18
Jan. 17 to Feb. 5, 1902	U.	W.	0. 499	14
Feb. 6 to Mar. 7, 1902	U.	W. and E.	0. 525	8
Mar. 9 to Mar. 25, 1902	Hd.	E.	0. 500	20
Mar. 26 to Apr. 16, 1902	Hd.	E.	0. 545	14
Apr. 17 to May 2, 1902	Hd.	W.	0. 608	15
May 8 to June 4, 1902	U.	W.	0. 569	11
June 5 to July 10, 1902	U.	E.	0. 492	9
July 11 to Aug. 9, 1902	U.	E.	0. 491	7
Aug. 11 to Aug. 26, 1902	Hd.	E.	0. 448	11
Aug. 28 to Oct. 3, 1902	U. and Hd.	W.	0. 540	11
Oct. 6 to Dec. 1, 1902	*	E.	+0. 447	39

*During this period, the azimuth of the mark was adopted from observations made by the observers on the Sun, Moon, and planet work.

TABLE IV.—*Record of Constants a, b, c, and n.*

Date.	Obs'r.	Sidereal Time.	*a*.	*b*.	c_0'.	t'.	Clamp.	Sidereal Time.	Adopted.	
									c_0'.	*n*.
1901		h m	s	s	s	°		h m h m	s	s
Nov. 15	U.	23 56	+0. 072	−0. 020	−0. 005	....	W.	*n* interpolated	−0. 002	−0. 081
15		1 35	+0. 130	−0. 055	.....	34. 7		from diagram.		−0. 126
15		3 18	+0. 147	−0. 045	+0. 001	33. 6				−0. 140
19	U.	23 42	+0. 083	+0. 016	[+0. 012]	39. 8		*n* interpolated	−0. 005	−0. 055
19		0 56	+0. 121	.....	.....	38. 1		from diagram.		−0. 085
19		1 44	+0. 119	.....	.....	36. 8				−0. 083
19		2 49	+0. 142	.....	.....	....				−0. 101
19		4 4	+0. 129	+0. 014	−0. 005	34. 0				−0. 091
20	U.	0 8	+0. 067	+0. 050	−0. 001	36. 8		*n* interpolated	+0. 002	−0. 026
20		1 44	+0. 141	.....	.....	35. 8		from diagram.		−0. 083
20		3 5	+0. 135	.....	.....	34. 8				−0. 079
20		4 7	+0. 140	+0. 034	+0. 004	34. 0				−0. 082
25	U.	23 42	+0. 130	[+0. 092]	+0. 012	44. 3		*n* interpolated	+0. 008	−0. 052
25		0 22	.....	+0. 071	.....	....		from diagram.		.....
25		1 2	+0. 181	.....	.....	43. 5				−0. 092
25		1 34	+0. 187	+0. 083	.....	43. 2				−0. 096
25		3 0	+0. 231	+0. 080	+0. 005	42. 1				−0. 131
26	U.	23 52	+0. 176	+0. 032	−0. 007	35. 5		*n* interpolated	−0. 006	−0. 117
26		1 43	+0. 229	.....	.....	33. 8		from diagram.		−0. 158
26		2 17	+0. 220	+0. 042	.....	33. 5				−0. 151
26		3 20	+0. 227	+0. 023	−0. 006	32. 8				−0. 157
27	U.	23 52	+0. 189	+0. 030	−0. 011	34. 2		*n* interpolated	−0. 004	−0. 136
27		1 13	+0. 232	.....	.....	33. 8		from diagram.		−0. 169
27		2 4	+0. 235	+0. 011	.....	33. 0				−0. 172
27		3 5	+0. 253	.....	.....	32. 5				−0. 186
27		3 55	+0. 267	+0. 014	+0. 003	32. 2	W.			−0. 196

TABLE IV.—*Record of Constants a, b, c, and n*—Continued.

Date.	Obs'r.	Sidereal Time.	*a.*	*b.*	c_0'.	t'.	Clamp.	Sidereal Time.	Adopted.	
									c_0'.	*n.*
1901		h m	s	s	s	°		h m h m	s	s
Nov. 27	U.	13 10	+0.167	+0.031	−0.011	25.5	W.		−0.011	−0.107
27		13 36	−0.159	.....	.....	26.0				
30	U.	0 55	+0.109	+0.074	+0.013	39.5				
30	U.	12 45	+0.132	.....	0.000	31.1			0.000	−0.081
30		13 35	+0.165	+0.054	.....	32.0				
			Level and azimuth adjusted.							
Dec. 1	U.	21 55	−0.038	+0.094	.....	47.6				
1	U.	12 45	−0.029	+0.068	+0.008	40.5			+0.008	+0.069
1		13 37	−0.033	+0.074	.....	41.2				
2	U.	0 23	−0.037	.....	+0.003	55.2		0 13— 1 19	+0.007	+0.087
2		0 47	.....	+0.108	.....	....				
2		1 7	−0.024	.....	.....	54.8				
2		1 35	−0.025	+0.098	+0.011	54.5				
3	U.	13 13	−0.013	+0.073	.....	28.7			+0.007	+0.067
3		13 35	−0.022	+0.097	+0.007	....				
4	U.	0 0	−0.021	+0.134	+0.001	29.3		*n* interpolated from diagram.	+0.004	+0.082
4		1 1	−0.007	.....	.....	28.7				+0.071
4		1 34	+0.020	.....	.....	28.2				+0.050
4		2 24	+0.044	+0.086	.....	28.0				+0.032
4		4 10	.....	[+0.067]	.....	....				
4		4 25	+0.090	+0.094	+0.006	27.5				−0.004
5	U.	23 38	−0.044	+0.076	−0.004	26.7		*n* interpolated from diagram.	+0.006	+0.074
5		1 10	+0.001	.....	.....	25.7				+0.039
5		1 52	+0.015	.....	.....	24.9				+0.028
5		2 15	.....	+0.048	.....	....				.....
5		3 4	+0.031	.....	.....	24.0				+0.016
5		4 10	+0.042	+0.067	+0.017	23.3				+0.008
6	U.	0 0	−0.038	+0.136	+0.012	26.7		*n* interpolated from diagram.	+0.012	+0.124
6		1 0	−0.030	.....	.....	25.8				+0.118
6		2 12	+0.016	+0.147	.....	25.1				+0.082
6		3 5	+0.010	.....	.....	24.7				+0.087
6		4 10	+0.048	[+0.248]	.....	24.4				+0.058
6		4 30	.....	+0.171	+0.011	....				
7	U.	0 0	+0.087	+0.205	−0.007	32.3		*n* interpolated from diagram.	+0.001	+0.047
7		1 38	+0.113	.....	.....	31.1				+0.027
7		2 10	.....	+0.179	.....	....				.....
7		3 5	+0.135	.....	.....	30.5				+0.010
7		4 29	+0.164	+0.164	+0.009	30.0				−0.013
			Level and azimuth adjusted.							
7	U.	14 55	−0.053	+0.096	.....	30.8				
8	U.	23 57	−0.025	+0.056	+0.016	38.9		*n* interpolated from diagram.	+0.012	+0.060
8		1 1	+0.006	.....	.....	38.5				+0.036
8		2 14	+0.025	+0.055	.....	38.0				+0.021
8		3 5	+0.049	.....	.....	37.5				+0.002
8		4 10	+0.069	+0.080	+0.008	37.0				−0.014
9	U.	13 12	−0.131	+0.092	.....	46.7			+0.014	+0.153
9		13 35	−0.136	+0.064	+0.014	46.0				
10	U.	1 37	−0.109	+0.093	+0.013	42.0				
10		1 55	....	.....	+0.026	....	W.			
			Instrument reversed.							
10	U.	2 23	−0.144	[+0.138]	.....	41.6	E.			
10	U.	13 12	−0.227	+0.040	....	34.5			−0.053	+0.198
10		13 45	−0.208	+0.053	−0.053	34.7				
11	U.	13 10	−0.222	.....	.....	36.0			−0.051	+0.189
11		13 38	−0.208	+0.035	−0.051	36.0	E.			

TABLE IV.—*Record of Constants a, b, c, and n*—Continued.

Date.	Obs'r.	Sidereal Time.	*a.*	*b.*	c_0'.	t'.	Clamp.	Sidereal Time.	Adopted.	
									c_0'.	*n.*
1901		h m	s	s	s	°		h m h m	s	s
Dec. 14	U.	13 10	−0.285	+0.036	.....	41.0	E.		−0.054	+0.245
14		13 35	−0.280	+0.046	−0.054	....				
15	U.	13 12	−0.308	0.000	−0.084	17.1			−0.079	+0.223
15		13 35	−0.262	+0.005	−0.074	17.0				
16	U.	1 0	−0.131	+0.025	−0.064	21.8		*n* interpolated from diagram.	−0.062	+0.109
16		2 15	−0.109	.....	.....	20.8				+0.092
16		3 30	−0.082	.....	.....	20.5				+0.071
16		4 12	−0.071	−0.002	−0.060	20.5				+0.063
17	U.	23 58	−0.232	+0.069	−0.047	25.3		0 14— 4 25	−0.051	+0.210
17		1 44	−0.219	.....	.....	24.3				
17		2 15	.....	+0.053	.....	....				
17		2 42	−0.236	.....	.....	23.8				
17		4 8	−0.192	+0.062	−0.055	23.5				
18	U.	0 57	−0.117	+0.069	−0.063	23.5		1 3— 4 25	−0.059	+0.116
18		2 14	−0.092	.....	.....	22.7				
18		3 5	−0.099	.....	.....	22.0				
18		4 10	−0.100	+0.048	−0.055	21.5				
21	U.	12 43	−0.085	+0.002	−0.072	10.0			−0.072	+0.057
21		13 35	−0.043	+0.021	−0.073	10.0				
22	U.	23 50	+0.048	+0.010	−0.057	25.0		0 14— 0 51	−0.064	−0.030
22		0 47	+0.056	.....	.....	25.9				
22		1 7	.....	+0.024	−0.072	....				
23	U.	13 13	+0.042	.....	−0.068	30.0			−0.068	−0.023
23		13 35	+0.036	+0.012	.....	29.9				
26	U.	13 14	−0.017	.....	.....	....			−0.062	−0.003
26		13 35	−0.008	−0.020	−0.062	34.2				
27	U.	0 0	−0.049	+0.014	−0.072	40.7		0 14— 4 25	−0.070	+0.023
27		1 33	−0.013	.....	.....	38.8				
27		2 26	−0.022	+0.004	.....	37.7				
27		3 30	−0.019	.....	.....	36.9				
27		4 28	−0.008	+0.012	−0.068	36.5				
30	U.	23 53	−0.069	+0.008	−0.054	39.1				
31	U.	23 35	+0.013	+0.027	−0.045	44.8		0 14— 4 25	−0.055	+0.004
31		0 37	+0.019	.....	.....	44.3				
31		1 33	+0.006	.....	.....	43.8				
31		2 18	.....	+0.011	.....	....				
31		2 42	+0.002	.....	.....	43.0				
31		3 45	−0.017	.....	.....	41.8				
31		4 28	−0.008	−0.010	−0.065	41.0				
1902 Jan. 1	Hd.	1 50	−0.085	−0.008	−0.066	31.4		2 1— 3 20	−0.063	+0.078
1		3 16	−0.105	+0.019	−0.060	29.7				
2	U.	0 0	.....	−0.011	.....	37.5				
3	U.	0 0	−0.152	−0.012	−0.081	29.0		0 14— 1 50	−0.076	+0.099
3		0 48	−0.145	.....	.....	27.2				
3		1 34	−0.130	−0.024	−0.070	26.3				
3	U.	13 14	−0.158	.....	−0.090	20.9			−0.090	+0.122
3		13 35	−0.150	+0.003	.....	20.2				
4	Hd.	0 30	−0.064	−0.002	−0.053	26.0		1 12— 3 20	−0.060	+0.046
4		1 38	−0.052	.....	.....	25.4				
4		2 22	−0.040	.....	.....	25.0				
4		3 15	−0.068	+0.009	−0.067	24.5	E.			

TABLE IV.—*Record of Constants a, b, c, and n*—Continued.

Date.	Obs'r.	Sidereal Time.	a.	b.	c_0'.	t'.	Clamp.	Sidereal Time.	Adopted.	
									c_0'.	n.
1902		h m	s	s	s	°		h m h m	s	s
Jan. 5	Hd.	0 23	−0.002	+0.016	−0.051	30.0	E.	0 48— 3 20	−0.046	+0.008
5		1 38	−0.004	.....	.....	....				
5		2 21	−0.027	.....	.....	28.8				
5		3 26	+0.010	−0.006	−0.040	28.5				
5	Hd.	11 34	−0.026	−0.006	−0.062	22.0		11 44—14 10	−0.064	+0.020
5		12 44	−0.016	.....	.....	21.7				
5		13 38	−0.033	.....	.....	21.5				
5		14 18	−0.034	+0.002	−0.067	21.0				
6	Hd.	11 48	−0.051	−0.057	−0.059	27.0		11 44—14 13	−0.058	−0.017
6		12 44	−0.024	.....	.....	27.2				
6		13 38	−0.004	.....	.....	27.0				
6		14 18	−0.007	−0.050	−0.056	27.0				
8	Hd.	23 35	−0.046	−0.026	−0.054	40.0		*n* interpolated from diagram.	−0.058	+0.020
8		0 25	−0.010	.....	.....	39.3				−0.020
8		1 37	−0.003	−0.073	−0.063	38.2				−0.044
9	Hd.	23 35	+0.006	+0.006	−0.044	35.0				
11	Hd.	23 40	−0.036	+0.006	−0.061	32.1		23 47— 0 58	−0.061	+0.032
11		1 5	−0.054	−0.014	.....	31.4				
11	U.	3 48	−0.091	−0.008	−0.070	29.1		4 1— 8 12	−0.070	+0.068
11		4 52	−0.101	.....	.....	28.8				
11		6 25	−0.102	−0.011	.....	28.0				
11		7 7	−0.100	.....	.....	28.0				
11		8 18	−0.088	−0.012	−0.069	28.0				
12	U.	3 47	−0.108	−0.039	−0.077	28.2		4 22— 8 12	−0.080	+0.065
12		6 25	−0.121	−0.039	.....	25.5				
12		8 17	−0.121	−0.046	−0.082	24.0				
13	U.	3 50	−0.092	−0.030	−0.072	27.8		3 58— 8 12	−0.073	+0.033
13		6 22	−0.061	−0.053	.....	25.3				
13		8 18	−0.075	−0.042	−0.074	24.1				
14	U.	3 50	−0.096	−0.035	−0.067	31.0		3 58— 8 12	−0.071	+0.043
14		4 53	−0.087	.....	.....	....				
14		6 24	−0.087	−0.044	.....	30.2				
14		7 8	−0.100	.....	.....	30.0				
14		8 17	−0.091	−0.056	−0.075	29.8				
16	U.	3 51	−0.028	−0.104	−0.072	36.8		3 58— 8 12	−0.069	−0.022
16		5 15	−0.034	.....	.....	35.2				
16		6 24	−0.045	−0.086	.....	34.0				
16		7 8	−0.030	.....	.....	33.5				
16		8 17	−0.058	−0.068	−0.066	32.9	E.			
			Instrument reversed.							
17	U.	3 53	−0.032	+0.011	+0.025	31.1	W.	3 58— 8 12	+0.027	+0.009
17		5 15	+0.017	.....	.....	29.9				
17		6 25	+0.006	+0.002	.....	29.0				
17		7 8	−0.004	.....	.....	28.7				
17		8 18	0.000	+0.020	+0.029	27.9				
20	Hd.	0 40	−0.029	+0.066	+0.046	34.5		0 48— 2 57	+0.048	+0.048
20		1 58	−0.038	.....	.....	32.8				
20		3 5	−0.013	+0.020	+0.051	31.2				
28	U.	3 54	−0.100	+0.066	+0.017	24.8		3 58— 5 39	+0.024	+0.117
28		5 15	−0.086	.....	.....	24.4				
28		6 0	−0.076	+0.090	+0.032	24.5	W.			

TABLE IV.—*Record of Constants a, b, c, and n*—Continued.

Date.	Obs'r.	Sidereal Time.	*a*.	*b*.	c_0'.	*t'*.	Clamp.	Sidereal Time.	Adopted.	
									c_0'.	*n*.
1902		h m	s	s	s	°		h m h m	s	s
Feb. 2	U.	3 50	+0.004*	+0.098	+0.017	33.4	W.	3 58— 8 12	+0.022	+0.072
2		4 47	.....	.....	.....	32.7				
2		6 23	.....	+0.128	.....	31.3				
2		7 8	.....	.....	.....	30.5				
2		8 19	.....	+0.177	+0.026	29.5				
3	U.	3 48	+0.042	+0.114	+0.023	21.9		*n* interpolated from diagram.	+0.023	+0.039
3		5 16	+0.055	.....	.....	20.0				+0.028
3		6 24	+0.061	+0.110	.....	19.0				+0.022
3		7 7	+0.086	.....	.....	19.0				—0.005
3		8 18	+0.104	+0.080	+0.023	18.5				—0.031
4	U.	3 48	+0.038	+0.126	+0.016	22.5		*n* interpolated from diagram.	+0.024	+0.050
4		5 15	+0.035	.....	.....	20.9				+0.038
4		6 39	+0.055	+0.080	.....	19.2				+0.007
4		8 17	+0.050	+0.053	+0.033	18.0				—0.006
6	U.	5 27	+0.065	+0.169	+0.024	28.0		5 31— 7 15	+0.024	+0.027
6		7 3	+0.108	+0.129	.....	27.5				
7	U.	5 36	—0.030	+0.174	+0.025	31.3		5 31— 7 15	+0.025	+0.123
7		7 2	—0.018	+0.157	.....	29.5				
8	U.	5 36	+0.066	+0.126	+0.031	21.8		5 31— 7 19	+0.032	+0.016
8		7 25	+0.079	+0.101	+0.034	20.9				
9	U.	5 36	+0.146	+0.101	.....	24.0		5 31— 7 19	+0.024	—0.056
9		7 3	+0.149	+0.086	+0.024	23.0				
13	U.	5 36	+0.092	+0.126	.....	24.0		5 31— 7 19	+0.008	—0.005
13		7 2	+0.113	+0.110	+0.008	23.1				
14	U.	5 36	+0.159	+0.140	.....	26.9		5 31— 7 19	+0.021	—0.040
14		7 3	+0.170	+0.140	+0.021	26.0	W.			
			Instrument reversed.							
14	U.	20 50	.....	.....	—0.074	....	E.			
23	U.	5 37	+0.127	—0.001	.....	42.9		5 31 — 7 19	—0.055	—0.102
23		7 3	+0.117	—0.024	—0.055	40.9				
26	U.	5 36	+0.159	—0.070	.....	47.4		5 31— 7 19	—0.067	—0.161
26		7 3	+0.156	—0.051	—0.067	46.0				
28	U.	5 36	+0.029	+0.030	.....	54.1		5 31— 6 59	—0.070	—0.012
28		7 3	+0.034	+0.011	—0.070	53.6				
Mar. 2	U.	5 36	—0.122	+0.014	.....	49.2		5 31— 7 15	—0.073	+0.095
2		7 2	—0.104	+0.009	—0.073	46.9				
3	U.	5 37	—0.098	—0.001	.....	37.6		5 31— 7 19	—0.064	+0.075
3		7 3	—0.092	+0.004	—0.064	36.1				
6	U.	5 37	—0.083	+0.018	.....	....		5 31— 7 19	—0.059	+0.080
6		7 3	—0.098	+0.013	—0.059	37.2				
9	Hd.	4 25	—0.027	+0.034	—0.026	48.5		4 42— 6 9	—0.036	+0.052
9		5 18	—0.030	.....	.....	47.0				
9		6 20	—0.047	+0.044	—0.045	....				
9	Hd.	16 30	—0.157	+0.053	.....	37.6		16 42—18 17	—0.041	+0.132
9		18 12	—0.102	+0.048	—0.041	37.0				
10	Hd.	4 31	—0.014	+0.059	—0.003	55.5		4 22— 6 9	—0.024	+0.046
10		6 17	—0.005	+0.063	—0.044	53.9				
11	Hd.	4 30	+0.004	+0.042	—0.021	62.0		4 22— 6 4	—0.026	+0.012
11		5 17	+0.018	.....	.....	61.7				
11		6 18	+0.020	+0.032	—0.031	60.5	E.			

*Adopted from observation of stars on this night.

TABLE IV.—*Record of Constants a, b, c, and n*—Continued.

Date.	Obs'r.	Sidereal Time.	a.	b.	c_0'.	t'.	Clamp.	Sidereal Time.	Adopted.	
									c_0'.	n.
1902		h m	s	s	s	°		h m h m	s	s
Mar. 14	U.	7 33	—0.242	+0.011	—0.048	48.8	E.	7 45— 8 41	—0.048	+0.190
14		8 49	—0.238	0.000	.....	47.5				
			Instrument removed from wyes on Mar. 17.							
19	Hd.	3 30	.....	+0.028	.....	....				
20	Hd.	16 36	—0.133	+0.025	—0.030	40.5		16 47—18 17	—0.036	+0.118
20		17 24	—0.141	.....	.....	40.1				
20		18 12	—0.147	+0.005	—0.042	40.0				
22	Hd.	16 36	—0.193	+0.029	—0.048	46.9		16 55—18 17	—0.046	+0.161
22		17 23	—0.197	.....	.....	46.0				
22		18 13	—0.177	+0.015	—0.043	45.2				
23	Hd.	5 43	—0.036	+0.043	—0.012	60.7		5 53— 7 5	—0.022	+0.064
23		6 42	—0.064	.....	—0.022	60.2				
23		7 14	—0.058	+0.030	—0.033	59.9				
23	Hd.	17 38	—0.162	+0.012	—0.034	....		17 52—19 1	—0.034	+0.136
23		18 38	—0.161	.....	.....	46.5				
23		19 14	—0.165	+0.018	—0.033	46.5				
25	Hd.	5 40	—0.155	+0.003	—0.024	55.0		5 53— 7 5	—0.035	+0.132
25		6 42	—0.181	.....	.....	....				
25		7 14	—0.177	—0.006	—0.046	53.1				
25	Hd.	18 12	—0.238	+0.018	—0.047	39.5		17 52—19 1	—0.044	+0.182
25		19 13	—0.203	+0.017	—0.042	38.9				
26	Hd.	9 58	—0.172	—0.026	—0.034	49.0		9 23—11 10	—0.034	+0.116
26		10 30	—0.160	.....	.....	48.0				
26		10 50	—0.161	—0.010	—0.035	47.5				
27	Hd.	1 8	.....	—0.012	.....	50.9				
27	Hd.	9 55	—0.152	—0.029	—0.027	50.1		9 23 10 32	—0.027	+0.093
27		10 40	—0.143	—0.028	.....	49.1				
27		11 5	—0.131	.....	.....	48.9				
29	Hd.	1 8	—0.003	.....	.....	....			—0.015	—0.021
29		1 38	—0.005	—0.038	—0.015	68.6				
29	Hd.	9 57	—0.168	—0.038	—0.025	60.5		9 23—13 23	—0.027	+0.122
29		10 29	—0.179	.....	.....	59.5				
29		11 30	—0.173	—0.028	.....	58.0				
29		12 40	—0.195	.....	.....	55.8				
29		13 10	—0.201	—0.030	—0.029	55.5				
30	Hd.	1 10	.....	+0.021	.....	58.1				
30	Hd.	9 55	—0.219	—0.019	—0.025	52.2		9 23—13 5	—0.026	+0.164
30		10 30	—0.209	.....	.....	51.4				
30		11 31	—0.215	—0.013	....	50.1				
30		12 35	—0.242	.....	.....	48.7				
30		13 10	—0.227	—0.007	—0.026	47.8				
Apr. 3	Hd.	9 58	—0.223	—0.106	—0.030	45.0		9 23—13 23	—0.028	+0.101
3		10 29	—0.228	.....	.....	44.7				
3		11 15	—0.208	—0.110	.....	44.1				
3		12 35	—0.207	.....	.....	42.8				
3		13 10	—0.207	—0.101	—0.025	42.2				
5	Hd.	9 55	—0.175	—0.060	—0.033	48.4		9 23—13 23	—0.028	+0.080
5		10 30	—0.158	.....	.....	47.5				
5		11 15	—0.160	—0.078	.....	46.5				
5		12 35	—0.144	.....	.....	45.0				
5		13 10	—0.156	—0.069	—0.023	44.6	E.			

TABLE IV.—*Record of Constants a, b, c, and n*—Continued.

Date.	Obs'r.	Sidereal Time.	*a.*	*b.*	c_0'.	t'.	Clamp.	Sidereal Time.	Adopted.	
									c_0'.	*n.*
1902		h m	s	s	s	°		h m h m	s	s
Apr. 12	Hd.	10 5	—0.209	+0.037	—0.025	56.2	E.	9 23—13 23	—0.026	+0.190
12		10 31	—0.216	.....	.....	55.0				
12		11 15	—0.220	+0.028	.....	54.0				
12		13 10	—0.214	+0.042	—0.027	51.6				
13	Hd.	9 58	—0.300	+0.022	0.029	50.0		9 23—13 23	—0.028	+0.236
13		10 30	—0.292	.....	.....	49.0				
13		11 15	—0.280	+0.032	.....	48.2				
13		12 23	—0.272	.....	.....	46.8				
13		13 10	—0.281	+0.016	—0.027	45.8				
15	Hd.	11 35	—0.167	+0.006	.....	49.0		11 45—13 23	—0.013	+0.140
15		12 20	—0.175	.....	—0.013	48.0				
15		13 10	—0.170	+0.018	.....	46.6	E.			
			Instrument reversed.							
17	Hd.	11 30	—0.084	+0.020	+0.040	55.6	W.	11 45—13 23	+0.038	+0.075
17		12 25	—0.071	.....	.....	54.2				
17		13 10	—0.067	+0.037	+0.035	53.2				
20	Hd.	9 58	—0.166	+0.050	+0.034	59.8		9 23—11 10	+0.040	+0.142
20		10 50	—0.131	+0.052	.....	58.5				
20		11 12	—0.127	.....	+0.047	57.8				
21	Hd.	9 15	—0.087	.....	+0.030	69.4		9 23—11 10	+0.026	+0.088
21		9 59	—0.072	+0.042	.....	68.4				
21		10 50	—0.062	+0.063	.....	67.2				
21		11 12	—0.064	.....	+0.023	....				
22	Hd.	9 18	—0.079	.....	+0.022	81.5		9 23—11 10	+0.022	+0.059
22		10 0	—0.069	+0.012	.....	80.4				
22		10 37	—0.058	.....	.....	79.2				
22		11 10	—0.058	+0.013	.....	78.6				
23	Hd.	9 14	—0.171	.....	+0.001	82.6	*n* interpolated from diagram.	+0.009	+0.154
23		10 0	—0.188	+0.016	.....	81.0				+0.156
23		10 48	—0.185	.....	.....	78.8				+0.143
23		11 15	—0.190	—0.012	.....	77.6				+0.140
23		12 0	—0.212	.....	.....	75.8				+0.154
23		13 10	—0.268	—0.026	+0.017	72.4				+0.192
24	Hd.	9 18	—0.262	.....	+0.012	65.7		9 23—13 23	+0.011	+0.212
24		9 58	—0.232	+0.026	.....	64.6				
24		10 30	—0.240	.....	.....	64.2				
24		11 15	—0.233	+0.032	.....	63.2				
24		12 24	—0.248	.....	.....	61.7				
24		13 10	—0.261	+0.037	+0.010	60.8				
26	Hd.	9 18	—0.208	.....	+0.020	75.5		9 23—10 18	—0.020	+0.174
26		9 58	—0.181	+0.036	.....	....				
27	Hd.	9 18	—0.310	.....	+0.008	64.3		*n* interpolated from diagram.	+0.014	+0.218
27		10 0	—0.323	—0.024	.....	63.6				+0.228
27		11 15	—0.286	—0.054	.....	61.4				+0.199
27		12 20	—0.273	.....	.....	....				+0.189
27		13 10	—0.249	—0.034	+0.021	58.8				+0.170
30	Hd.	9 20	—0.271	.....	—0.003	79.0		9 23—13 23	+0.004	+0.192
30		10 10	—0.234	0.000	.....	....				
30		11 35	—0.249	—0.009	.....	75.4				
30		12 20	—0.252	.....	.....	....				
30		13 10	—0.256	—0.009	+0.010	72.0				
May 1	Hd.	9 15	—0.251	.....	+0.001	73.2		9 23—13 23	+0.016	+0.154
1		10 0	—0.242	—0.027	.....	71.9				
1		11 15	—0.234	—0.036	.....	69.5				
1		12 18	—0.224	.....	.....	67.2				
1		13 12	—0.210	—0.067	+0.030	65.8	W.			

TABLE IV.—*Record of Constants a, b, c, and n*—Continued.

Date.	Obs'r.	Sidereal Time.	*a*.	*b*.	c_0'.	*t'*.	Clamp.	Sidereal Time.	Adopted.	
									c_0'.	*n*.
1902		h m	s	s	s	°		h m h m	s	s
May 8	U.	12 55	−0.434	−0.059	−0.039	65.3	W.		−0.039	+0.302
8		13 35	−0.448	−0.074	.....	....				
9	U.	13 10	−0.498	−0.082	−0.045	61.2			−0.045	+0.342
9		13 35	−0.513	−0.083	.....	59.7				
11	U.	13 3	−0.452	−0.065	−0.046	56.0			−0.046	+0.311
11		13 34	−0.450	−0.064	.....	55.1				
12	U.	12 45	−0.391	−0.050	−0.036	61.2			−0.036	+0.263
12		13 35	−0.373	−0.057	.....	60.4				
15	U.	12 56	−0.366	−0.054	−0.040	60.6			−0.040	+0.242
15		13 35	−0.363	−0.078	.....	59.5				
22	U.	12 50	−0.342	0.000	.....	73.1			−0.041	+0.261
22		13 34	−0.329	0.000	−0.041	72.0				
27	U.	12 40	−0.552	−0.036	−0.050	56.9				
27		13 42	−0.532	−0.061	.....	55.9				
29	U.	12 45	−0.475	−0.100	−0.039	63.9		*n* interpolated from diagram.	−0.044	+0.300
29		13 53	−0.458	.....	.....	62.1				+0.287
29		14 32	−0.459	−0.106	.....	61.4				+0.288
29		16 15	−0.431	.....	.....	58.9				+0.266
29		17 3	−0.418	−0.124	−0.048	57.8				+0.256
30	U.	12 45	−0.379	−0.123	−0.045	72.5		*n* interpolated from diagram.	−0.042	+0.223
30		13 53	−0.333	....	.....	70.8				+0.187
30		14 32	−0.338	−0.115	.....	69.9				+0.191
30		15 58	−0.310	.....	.....	67.7				+0.169
30		17 12	−0.319	−0.106	−0.038	66.2				+0.176
June 1	U.	12 42	−0.382	−0.112	−0.044	74.8		12 51—17 7	−0.048	+0.235
1		13 53	−0.390	.....	.....	72.8				
1		14 32	−0.400	−0.110	.....	71.9				
1		15 58	−0.385	.....	.....	69.6				
1		17 12	−0.394	−0.105	−0.051	68.1				
2	U.	12 42	−0.345	−0.066	−0.041	78.6		12 51—17 7	−0.046	+0.217
2		13 54	−0.350	.....	.....	76.9				
2		14 33	−0.334	−0.085	.....	76.1				
2		15 58	−0.336	.....	.....	74.3				
2		17 12	−0.349	−0.085	−0.050	73.0				
4	U.	12 42	−0.530	−0.076	−0.052	79.0		*n* interpolated from diagram.	−0.052	+0.365
4		13 41	−0.531	.....	.....	77.3				+0.362
4		14 32	−0.537	−0.088	.....	75.9				+0.362
4		15 57	−0.536	.....	.....	73.8				+0.343
4		17 13	−0.512	−0.144	−0.052	71.9	W.			+0.308
		Instrument reversed. Level and azimuth adjusted.								
5	U.	12 40	−0.324	−0.063	+0.010	73.5	E.	12 51—17 7	+0.009	+0.242
5		13 40	−0.334	.....	.....	71.9				
5		14 32	−0.351	−0.044	.....	70.1				
5		15 57	−0.375	.....	.....	67.5				
5		17 12	−0.358	−0.029	+0.008	65.8				
6	U.	12 43	−0.262	−0.071	+0.019	75.9		12 51—17 7	+0.011	+0.170
6		13 40	−0.269	.....	.....	74.1				
6		14 32	−0.271	−0.062	.....	72.0				
6		15 58	−0.285	.....	.....	70.2				
6		17 12	−0.284	−0.074	+0.003	69.0				
8	U.	12 47	−0.338	−0.065	+0.013	71.8		12 51—17 7	+0.009	+0.229
8		13 40	−0.350	.....	.....	70.2				
8		14 32	−0.350	−0.055	.....	68.5				
8		15 57	−0.346	.....	.....	66.1				
8		17 12	−0.340	−0.070	+0.005	64.3	E.			

TABLE IV.—*Record of Constants a, b, c, and n*—Continued.

Date.	Obs'r.	Sidereal Time.	*a.*	*b.*	c_0'.	t'.	Clamp.	Sidereal Time.	Adopted.	
									c_0'.	*n.*
1902		h m	s	s	s	°		h m h m	s	s
June 9	U.	12 40	−0.314	−0.101	+0.011	69.5	E.	12 51—17 7	+0.008	+0.195
9		13 40	−0.296	.....	.....	68.0				
9		14 32	−0.340	−0.083	.....	66.5				
9		15 57	−0.328	.....	.....	64.0				
9		17 12	−0.311	−0.065	+0.004	62.6				
10	U.	12 44	−0.217	−0.063	+0.027	78.9		12 51—17 7	+0.020	+0.130
10		13 40	−0.222	.....	.....	77.2				
10		14 33	−0.216	−0.058	.....	75.9				
10		15 57	−0.217	.....	.....	74.0				
10		17 12	−0.227	−0.075	+0.014	72.9				
19	U.	13 4	.....	−0.089	.....	81.6				
21	U.	14 20	−0.374	−0.071	+0.011	73.8		14 28—16 57	+0.011	+0.250
21		15 15	−0.390	.....	.....	71.5				
21		16 10	−0.363	.....	.....	70.0				
21		16 38	−0.376	−0.064	.....	69.2				
23	U.	14 20	−0.320	−0.113	+0.012	67.2		14 28—17 33	+0.012	+0.181
23		15 15	−0.316	.....	.....	65.2				
23		16 35	−0.327	.....	.....	62.9				
23		17 29	−0.296	−0.092	.....	62.0				
26	U.	14 20	−0.301	−0.072	+0.008	75.7		14 28—16 14	+0.014	+0.180
26		15 15	−0.281	.....	.....	73.9				
26		16 18	−0.282	−0.068	+0.020	71.9				
July 8	U.	15 30	−0.288	−0.046	+0.036	86.0		*n* interpolated from diagram.	+0.035	+0.194
8		16 35	−0.272	.....	.....	84.8				+0.182
8		17 25	−0.242	−0.051	+0.034	83.6				+0.158
9	U.	15 0	−0.319	−0.054	+0.031	87.9		15 18—15 31	+0.031	+0.214
10	U.	15 5	−0.385	−0.073	+0.025	76.9		15 21—17 33	+0.025	+0.246
10		16 41	−0.377	.....	.....	75.0				
10		17 25	−0.381	−0.076	.....	74.1				
10		17 55	.....	−0.091	.....	....				
11	U.	16 22	−0.379	−0.132	+0.016	73.3		16 15—20 22	+0.016	+0.227
11		17 10	−0.395	.....	.....	72.2				
11		18 12	−0.390	−0.114	.....	71.0				
11		19 15	−0.382	.....	.....	69.7				
11		20 15	−0.383	−0.101	.....	68.0				
12	U.	16 0	−0.361	−0.138	+0.023	76.0		16 6—20 22	+0.023	+0.200
12		17 10	−0.371	.....	.....	73.8				
12		18 12	−0.364	−0.125	.....	72.0				
12		19 15	−0.345	.....	.....	....				
12		20 15	−0.347	−0.113	.....	69.9				
22	U.	15 58	−0.366	.....	+0.019	75.9		16 6—18 22	+0.019	+0.216
22		16 25	−0.373	−0.109	.....	....				
22		17 9	−0.368	.....	.....	74.0				
22		18 12	−0.366	−0.114	.....	72.0				
26	U.	16 0	−0.329	−0.110	+0.023	77.8				
27	U.	15 50	−0.287	−0.072	+0.042	85.0			+0.042	+0.173
27		16 30	−0.274	.....	.....	83.9				
28	U.	15 55	−0.317	−0.056	+0.017	83.2			+0.017	+0.211
31	U.	15 55	−0.347	−0.054	+0.025	79.8		16 6—19 57	+0.025	+0.240
31		16 47	−0.361	−0.058	.....	78.6				
31		18 12	−0.351	[−0.098]	.....	76.9				
31		19 35	−0.359	.....	.....	75.5				
31		20 15	−0.353	−0.059	.....	75.0	E.			

TABLE IV.—*Record of Constants a, b, c, and n*—Continued.

Date.	Obs'r.	Sidereal Time.		*a.*	*b.*	c_0'.	*t'.*	Clamp.	Sidereal Time.	Adopted.	
										c_0'.	*n.*
1902		h	m	s	s	s	°		h m h m	s	s
Aug. 2	U.	15	52	—0. 346	—0. 058	+0. 041	83. 9	E.	16 6—18 22	+0. 041	+0. 236
2		16	23	—0. 344	.....	.....	82. 9				
2		17	57	—0. 348	—0. 048	.....	80. 5				
3	U.	15	55	—0. 335	—0. 063	+0. 053	85. 5			+0. 053	+0. 217
3		16	32	—0. 324	.....	.....	....				
4	U.	15	55	—0. 414	—0. 065	+0. 020	83. 9		16 6—20 22	+0. 020	+0. 296
4		16	58	—0. 416	.....	.....	81. 9				
4		18	13	—0. 443	—0. 060	.....	79. 3				
4		19	15	—0. 428	.....	.....	77. 5				
4		20	17	—0. 458	—0. 064	.....	76. 6				
7	U.	15	55	—0. 381	—0. 125	+0. 041	76. 5		16 6—19 31	+0. 041	+0. 226
7		17	10	—0. 373	.....	.....	74. 6				
7		18	12	—0. 387	.....	.....	73. 1				
7		19	25	—0. 388	—0. 101	.....	....				
8	Hd.	16	25	—0. 303	—0. 108	+0. 074	83. 0		16 15—19 31	+0.074	+0. 161
8		17	9	—0. 280	.....	.....	81. 9				
8		18	15	—0. 289	.....	.....	....				
8		19	40	—0. 283	—0. 097	.....	78. 5				
11	Hd.	19	30	—0. 424	—0. 089	+0. 023	72. 0		19 20—21 42	+0. 023	+0. 272
11		21	7	—0. 444	.....	.....	69. 5				
11		21	47	—0. 436	—0. 121	.....	68. 8				
12	Hd.	19	35	—0. 432	—0. 118	+0. 036	70. 0		19 20—21 42	+0. 036	+0. 260
12		20	53	—0. 424	.....	.....	68. 3				
12		21	47	—0. 430	—0. 116	.....	....				
16	Hd.	12	42	—0. 366	—0. 074	+0. 061	73. 7			+0.051	+0. 241
16		13	55	—0. 372	.....	+0. 041	73. 0				
19	Hd.	19	5	—0. 322	—0. 084	+0. 038	82. 0		18 55—21 42	+0. 038	+0. 211
19		20	20	—0. 336	.....	.....	79. 8				
19		20	55	—0. 343	—0. 086	.....	79. 0				
19		21	40	—0. 360	.....	.....	....				
20	Hd.	19	35	—0. 376	—0. 066	+0. 041	76. 1			+0. 041	+0. 246
20		20	20	—0. 364	.....	.....	75. 0				
21	Hd.	19	35	—0. 333	—0. 050	+0. 031	76. 2		19 20—21 42	+0. 031	+0. 225
21		20	50	—0. 331	.....	.....	74. 6				
21		21	45	—0. 336	—0. 060	.....	73. 8				
22	Hd.	19	30	—0. 394	—0. 081	+0. 038	70. 8		19 20—21 42	+0. 038	+0. 259
22		20	20	—0. 401	.....	.....	69. 5				
22		21	10	—0. 394	—0. 069	.....	68. 5				
22		21	45	—0. 386	.....	.....	67. 5				
23	Hd.	19	30	—0. 353	—0. 102	+0. 032	71. 3			+0. 032	+0. 210
24	Hd.	19	30	—0. 379	—0. 132	+0. 038	69. 3		19 20—21 42	+0. 038	+0. 211
24		20	20	—0. 380	.....	.....	68. 6				
24		21	10	—0. 357	—0. 119	.....	67. 5				
24		21	39	—0. 377	.....	.....	67. 0				
25	Hd.	19	30	—0. 381	—0. 132	+0. 034	74. 5		19 20—21 42	+0. 034	+0. 220
25		20	20	—0. 388	.....	.....	73. 0				
25		21	10	—0. 382	—0. 120	.....	71. 7				
25		21	40	—0. 388	.....	.....	....	E.			
				Instrument reversed.							
28	U.	17	52	—0. 285	—0. 024	—0. 058	76. 0	W.	*n* interpolated from diagram.	—0. 058	+0. 199
28		19	8	—0. 279	.....	.....	....				+0. 194
28		20	2	—0. 278	—0. 042	.....	73. 1				+0. 194
28		20	53	—0. 240	.....	.....	72. 0				+0. 164
28		21	46	—0. 213	—0. 042	.....	....	W.			+0. 143

TABLE IV.—*Record of Constants a, b, c, and n*—Continued.

Date.	Obs'r.	Sidereal Time.	*a.*	*b.*	c_0'.	t'.	Clamp.	Sidereal Time.	Adopted.	
									c_0'.	*n.*
1902		h m	s	s	s	°		h m h m	s	s
Aug. 29	U.	17 55	−0.299	+0.007	−0.049	78.1	W.	*n* interpolated	−0.049	+0.226
29		19 8	−0.274	.....	.....	76.7		from diagram.		+0.206
29		20 3	−0.250	−0.016	.....	75.8				+0.188
29		21 47	−0.233	−0.024	.....	72.9				+0.174
30	U.	17 55	−0.246	+0.004	−0.065	80.5		*n* interpolated	−0.065	+0.191
30		19 7	−0.227	.....	.....	77.8		from diagram.		+0.177
30		20 3	−0.191	−0.001	.....	76.0				+0.149
30		21 47	−0.189	−0.004	.....	73.5				+0.147
31	U.	17 55	−0.228	+0.029	−0.046	81.9		*n* interpolated	−0.046	+0.189
31		19 7	−0.207	.....	.....	....		from diagram.		+0.173
31		20 5	−0.198	+0.026	.....	78.3				+0.166
31		21 46	−0.189	+0.002	.....	75.8				+0.159
Sept. 1	U.	17 55	−0.248	+0.015	−0.062	85.2		*n* interpolated.	−0.062	+0.203
1		19 20	−0.207	+0.017	.....	82.8				+0.171
4	U.	18 53	−0.324	−0.002	−0.055	71.0		*n* interpolated	−0.055	+0.243
4		19 45	−0.306	.....	.....	69.3		from diagram.		+0.229
4		21 47	−0.239	−0.025	.....	66.7				+0.177
5	U.	17 56	−0.312	−0.016	−0.050	....		*n* interpolated	−0.050	+0.226
5		19 27	−0.259	.....	.....	66.7		from diagram.		+0.185
5		20 37	−0.230	−0.025	.....	65.0				+0.163
5		21 46	−0.203	−0.036	.....	62.5				+0.142
18	Hd.	22 55	−0.237	+0.017	−0.032	61.5		22 47—23 57	−0.032	+0.197
18		23 50	−0.235	+0.026	.....	60.6				
22	Hd.	22 52	−0.204	+0.132	−0.045	67.0		22 47— 0 14	−0.045	+0.236
22		23 51	−0.199	+0.118	.....	67.5				
23	Hd.	22 54	−0.203	+0.136	−0.044	....		22 47— 0 14	−0.044	+0.243
23		23 50	−0.203	+0.134	.....	70.0				
27	Hd.	22 50	−0.198	+0.144	−0.028	71.0				
29	Hd.	22 53	−0.292	+0.130	−0.040	70.5		22 47— 0 14	−0.040	+0.302
29		23 52	−0.284	+0.118	.....	69.6				
Oct. 1	Hd.	22 52	−0.266	+0.122	−0.031	67.0		22 47— 0 14	−0.031	+0.279
1		23 52	−0.261	0.114	.....	66.0				
2	Hd.	22 52	−0.283	+0.113	−0.039	64.3		22 47— 0 14	−0.039	+0.288
2		23 52	−0.273	+0.115	.....	63.0	W.			
			Instrument reversed.							
6	Hd.	22 55	−0.394	+0.069	+0.031	60.0	E.	22 47— 0 14	+0.031	+0.344
6		23 51	−0.391	+0.056	.....	59.2				
Nov. 13	Hd.	22 52	−0.164	+0.144	+0.076	67.0		22 47—23 57	+0.070	+0.204
13		0 20	−0.143	.....	.....	64.5				
13		1 0	−0.150	+0.130	+0.064	63.7				
20	Hd.	22 55	−0.212	+0.106	.....	55.8		22 47—23 57	+0.041	+0.221
20		0 20	−0.191	.....	+0.041	54.0				
20		1 0	−0.191	+0.108	.....	53.5				
21	Hd.	22 50	−0.155	+0.123	.....	62.2		22 47—23 57	+0.079	+0.190
21		0 20	−0.147	.....	+0.079	60.5				
21		1 0	−0.151	+0.108	.....	59.8				
28	Hd.	22 55	−0.186	+0.075	.....	40.0		22 47—23 57	+0.056	+0.186
28		0 20	−0.172	.....	+0.056	38.3				
28		1 0	−0.166	+0.084	.....	37.6				
			Stellar focus adjusted.							
Dec. 1	Hd.	22 55	−0.143	+0.112	.....	....		22 47—23 57	+0.012	+0.175
1		0 20	−0.137	.....	+0.012	40.8				
1		1 5	−0.133	+0.104	.....	40.5	E.			

TABLE V.—*Nadir Points of the Circles.*

Date.	Obs'r.	Sid. Time.	Circle A.	Reader.	Circle B.	Reader.	Temp.	Clamp.
1901		h m	° ′ ″		° ′ ″		°	
Nov. 15	U.	23 45	179 57 24.78	Hd.	218 54 54.12	U.	33.7	W.
15		1 40	25.19		54.22		32.0	
15		3 10	25.22		54.58		31.0	
19	U.	23 55	179 57 24.86	Hd.	218 54 54.16	U.	37.0	
19		2 25	24.02		55.28		....	
19		4 15	23.73		54.95		30.5	
20	U.	0 15	179 57 22.95	Hd.	218 54 55.26	U.	35.0	
20		2 35	24.02		55.11		....	
20		4 15	23.62		55.42		32.2	
25	U.	23 55	179 57 24.00	Hd.	218 54 55.13	U.	43.0	
25		1 10	24.04		55.48		42.9	
25		3 10	24.22		55.52		40.5	
26	U.	23 45	179 57 23.45	Hd.	218 54 55.40	U.	33.0	
26		2 5	23.68		56.35		32.2	
26		3 30	23.12		56.76		31.0	
27	U.	0 0	179 57 24.16	Hd.	218 54 55.00	U.	....	
27		1 58	24.19		55.25		31.2	
27		3 50	24.66		55.12		30.6	
27	U.	13 40	179 57 23.30	U.	218 54 55.86	U.	26.0	
30	U.	13 5	179 57 23.28	U.	218 54 54.22	U.	....	
				Instrument adjusted.				
Dec. 1	U.	13 0	179 57 32.50	U.	218 55 8.38	U.	42.0	
2	U.	0 5	179 57 23.86	Hd.	218 55 9.25	U.	55.0	
2		1 28	24.24		9.40		53.0	
				Lens in microscope C changed.				
3	U.	13 7	179 57 30.88	U.	218 55 11.42	U.	29.0	
4	U.	23 50	179 57 32.70	Hd.	218 55 8.52	U.	27.5	
4		2 0	33.54		9.08		....	
4		4 5	33.12		9.65		25.0	
5	U.	23 52	179 57 32.22	Hd.	218 55 9.08	U.	....	
5		2 0	31.76		10.08		22.0	
5		4 5	32.32		9.60		20.0	
				Microscope B adjusted.				
6	U.	23 48	179 57 31.61	Hd.	218 55 8.64	U.	25.0	
6		2 0	33.15		8.58		23.0	
6		4 5	33.68		8.54		23.5	
7	U.	23 48	179 57 32.92	Hd.	218 55 8.89	U.	31.0	
7		2 0	33.28		9.14		....	
7		4 5	33.23		9.43		28.0	
				Microscopes C and E adjusted.				
8	U.	23 50	179 57 29.15	Hd.	218 55 4.42	U.	39.5	
8		2 10	29.34		4.81		....	
8		4 5	29.44		4.92		37.5	
9	U.	13 43	179 57 26.28	U.	218 55 5.94	U.	44.0	W.
				Instrument reversed.				
10	U.	2 15	179 57 27.12	U.	218 54 5.48	U.	....	E.
10		13 5	179 57 26.58	U.	218 54 4.72	U.	35.0	
11	U.	13 45	179 57 26.05	U.	218 54 5.22	U.	35.7	
				Microscopes B and E adjusted.				
15	U.	13 5	179 57 30.18	U.	218 54 7.90	U.	15.0	E.
				Microscopes B and F adjusted.				

TABLE V.—*Nadir Points of the Circles*—Continued.

Date.	Obs'r.	Sid. Time.	Circle A.	Reader.	Circle B.	Reader.	Temp.	Clamp.
1901		h m	° ′ ″		° ′ ″		°	
Dec. 16	U.	0 55	179 57 30.13	Hd.	218 54 9.89	U.	20.5	E.
16		2 0	29.80		10.49		21.0	
16		4 5	29.71		10.96		19.5	
17	U.	23 55	179 57 29.28	Hd.	218 54 9.04	U.	24.0	
17		2 0	29.69		9.46		22.5	
17		4 3	29.50		10.01		22.4	
			Microscope F adjusted.					
18	U.	0 48	179 57 29.08	Hd.	218 54 11.69	U.	22.0	
18		2 0	28.81		11.97		20.0	
18		4 5	29.38		11.75		21.0	
21	U.	13 2	179 57 31.39	U.	218 54 11.46	U.	10.0	
22	U.	23 45	179 57 29.94	Hd.	218 54 12.28	U.	27.0	
22		1 15	29.15		13.20		27.5	
23	U.	13 5	179 57 28.90	U.	218 54 12.71	U.	....	
26	U.	13 5	179 57 27.86	U.	218 54 13.36	U.	35.0	
27	U.	23 50	179 57 28.26	Hd.	218 54 12.62	U.	39.0	
27		2 0	28.46		12.72		35.1	
27		4 5	27.82		13.54		35.0	
31	U.	23 55	179 57 29.82	Hd.	218 54 11.66	U.	45.3	
31		2 0	29.02		12.00		42.5	
31		4 5	29.02		12.44		38.8	
1902								
Jan. 1	Hd.	1 40	179 57 29.19	Hd.	218 54		28.2	
1		3 35	28.75		.....		27.0	
2	U.	23 55	179 57 27.05	Hd.	218 54 13.82	U.	39.0	
3	U.	23 48	179 57 29.07	Hd.	218 54 11.31	U.	26.8	
3		2 0	29.12		11.32		25.0	
3	U.	13 8	179 57 27.88	U.	218 54 12.49	U.	20.0	
4	Hd.	0 15	179 57 29.44	Hd.	218 54		24.7	
4		3 30	28.32		.....		23.5	
5	Hd.	0 12	179 57 28.82	Hd.	218 54		31.0	
5		3 40	28.76		.....		....	
5	Hd.	11 18	179 57 28.28	Hd.	218 54		20.1	
5		14 28	28.05		.....		19.5	
			New object-glasses put in microscopes.					
6	Hd.	11 25	179 57 36.27	Hd.	218 54		26.5	
6		14 30	36.08		.....		26.2	
			Microscopes C, F, and G adjusted.					
8	Hd.	23 15	179 57 35.44	Hd.	218 54		41.0	
8		1 45	36.18		.....		...	
			Microscopes B, C, D, and G adjusted.					
9	Hd.	23 25	179 57 33.48	Hd.	218 54		37.0	
11	Hd.	23 35	179 57 33.50	Hd.	218 54		32.1	
11		1 15	34.09		.....		....	
11	U.	3 40	179 57 33.66	Hd.	218 54 8.96	U.	28.4	
11		6 15	33.12		9.32		26.5	
11		8 25	33.08		9.94		27.5	
			Microscope F adjusted.					
12	U.	3 40	179 57 32.08	Hd.	218 54 10.10	U.	26.5	E.
12		6 15	32.58		9.24		23.1	
12		8 25	32.14		9.20		22.5	

TABLE V.—*Nadir Points of the Circles*—Continued.

Date.	Obs'r.	Sid. Time.	Circle A.	Reader.	Circle B.	Reader.	Temp.	Clamp.
1902		h m	° ′ ″		° ′ ″		°	
Jan. 13	U.	3 40	179 57 32.66	Hd.	218 54 9.45	U.	25.5	E.
13		6 15	33.10		9.28		23.5	
13		8 25	33.65		8.76		23.0	
14	U.	3 40	179 57 32.76	Hd.	218 54 9.51	U.	30.0	
14		6 15	32.71		9.22		30.2	
14		8 25	33.54		9.02		29.0	
16	U.	3 43	179 57 33.32	Hd.	218 54 9.58	U.	34.2	
16		6 15	33.38		9.68		32.0	
16		8 25	33.28		9.49		31.3	E.
			Instrument reversed.					
17	U.	3 40	179 57 29.35	Hd.	218 55 12.95	U.	....	W.
17		6 15	28.92		13.54		27.0	
17		8 25	29.44		13.19		26.0	
			Microscope A adjusted.					
20	Hd.	0 25	179 57 28.02	Hd.	218 55		34.0	
20		3 15	28.08		.....		...	
			Microscopes A, B, C, and D adjusted.					
28	U.	3 45	179 57 27.34	Hd.	218 55 14.38	U.	23.5	
28		6 10	27.56		15.03		24.9	
Feb. 2	U.	3 42	179 57 26.54	Hd.	218 55 15.72	U.	33.0	
2		6 15	26.55		16.20		30.0	
2		8 25	26.44		16.08		28.0	
3	U.	3 40	179 57 26.59	Hd.	218 55 16.10	U.	19.0	
3		6 15	27.18		16.31		17.0	
3		8 25	26.80		17.38		17.1	
4	U.	3 40	179 57 27.19	Hd.	218 55 15.60	U.	20.5	
4		6 15	27.82		15.76		....	
4		6 15	.....		15.16*		....	
4		8 25	27.99		16.01		16.0	
6	U.	5 47	179 57 27.64	Hd.	218 55 16.01	U.	27.0	
6		6 47	28.11		16.05		27.2	
7	U.	5 25	179 57 27.06	Hd.	218 55 15.62	U.	29.2	
7		6 48	27.10		16.19		27.5	
8	U.	5 25	179 57 27.85	Hd.	218 55 15.88	U.	20.6	
8		6 47	28.10		15.56		20.1	
9	U.	5 25	179 57 29.38	Hd.	218 55 14.91	U.	22.5	
9		6 45	29.34		14.80		21.8	
			Microscope C adjusted.					
13	U.	5 26	179 57 27.85	Hd.	218 55 15.72	U.	23.0	
13		6 45	27.96		16.40		22.3	
			Microscope C adjusted.					
14	U.	5 48	179 57 28.74	Hd.	218 55 15.92	U.	....	
14		6 45	29.00		16.34		25.5	W.
			Instrument reversed.					
23	U.	5 48	179 57 37.76	Hd.	218 55 8.95	U.	41.0	E.
23		6 48	37.68		9.22		38.2	
26	U.	5 48	179 57 36.92	Hd.	218 55 10.42	U.	....	
26		6 45	37.10		10.64		45.0	
28	U.	5 48	179 57 39.61	Hd.	218 55 6.26	U.	....	
28		6 45	40.18		6.35		53.0	
Mar. 2	U.	5 50	179 57 40.45	Hd.	218 55 6.66	U.	45.0	
2		6 48	40.13		6.46		43.0	E.
			Microscopes A and C adjusted.					

*The illumination on Circle B changed from gaslight to electric light.

TABLE V.—*Nadir Points of the Circles*—Continued.

Date.	Obs'r.	Sid. Time.	Circle A.	Reader.	Circle B.	Reader.	Temp.	Clamp.
1902		h m	° ′ ″		° ′ ″		°	
Mar. 3	U.	5 48	179 57 40.20	Hd.	218 55 6.58	U.	....	E.
3		6 48	39.94		6.92		34.1	
6	U.	5 48	179 57 40.40	Hd.	218 55 6.42	U.	38.1	
6		6 48	40.42		6.42		36.2	
9	Hd.	4 15	179 57		218 55 6.86	Hd.	41.9	
9		6 28	.....		6.61		43.0	
9	Hd.	16 15	179 57		218 55 6.56	Hd.	35.5	
9		18 35	.....		6.86		....	
10	Hd.	4 12	179 57		218 55 6.82	Hd.	57.0	
10		6 27	.....		7.15		53.9	
11	Hd.	4 12	179 57		218 55 6.20	Hd.	65.0	
11		6 28	.....		6.00		58.0	
14	U.	7 20	179 57 41.11	Fk.	218 55 5.86	U.	46.2	
14		8 55	40.85		6.20		....	
			Instrument removed from the wyes.					
20	Hd.	16 25	179 57		218 55 7.37	Hd.	40.0	
20		18 25	.....		7.05		....	
22	Hd.	16 25	179 57		218 55 8.28	Hd.	44.0	
22		18 28	.....		8.00		43.8	
23	Hd.	5 18	179 57		218 55 8.85	Hd.	62.9	
23		7 25	.....		8.39		....	
			Microscope F adjusted.					
23	Hd.	17 25	179 57		218 55 8.52	Hd.	44.0	
23		19 20	.....		8.59		46.5	
			Microscopes E, F, G, and H adjusted.					
25	Hd.	5 18	179 57		218 55 10.66	Hd.	56.0	
25		7 20	.....		10.94		50.0	
25	Hd.	17 45	179 57		218 55 10.74	Hd.	....	
25		19 25	....		10.72		....	
26	Hd.	9 45	179 57 40.16	Fk.	218 55 9.30	Hd.	46.0	
26		11 15	39.68		9.72		44.1	
27	Hd.	0 36	179 57		218 55 11.10	Hd.	57.0	
27	Hd.	9 45	179 57 39.51	Fk.	218 55 9.70	Hd.	...	
27		10 50	39.95		9.88		47.1	
29	Hd.	0 55	179 57		218 55 9.05	Hd.	73.5	
29	Hd.	9 45	179 57 42.20	Fk.	218 55 7.85	Hd.	56.9	
29		11 18	41.48		7.69		54.2	
29		13 36	41.62		7.12		51.5	
30	Hd.	0 50	179 57		218 55 9.28	Hd.	64.8	
30	Hd.	9 45	179 57 41.50	Fk.	218 55 8.14	Hd.	49.0	
30		11 16	41.09		8.17		46.0	
30		13 35	40.88		8.09		44.1	
			Microscopes adjusted.					
Apr. 3	Hd.	9 45	179 57 37.11	Fk.	218 55 10.54	Hd.	43.8	
3		11 30	37.74		10.55		41.1	
3		13 40	37.72		9.99		38.4	
5	Hd.	9 45	179 57 38.51	Fk.	218 55 9.62	Hd.	....	
5		11 25	38.58		9.36		44.0	
5		13 35	38.42		9.56		42.1	E.
			Microscope H adjusted.					

TABLE V.—*Nadir Points of the Circles*—Continued.

Date.	Obs'r.	Sid. Time.	Circle A.	Reader.	Circle B.	Reader.	Temp.	Clamp.
1902		h m	° ′ ″		° ′ ″		°	
Apr. 12	Hd.	9 45	179 57 38.18	Fk.	218 55 10.28	Hd.	56.8	E.
12		11 25	38.84		10.22		50.2	
12		13 40	38.72		10.37		....	
13	Hd.	9 45	179 57 37.92	Fk.	218 55 10.60	Hd.	46.2	
13		11 25	37.38		10.42		43.8	
13		13 35	37.46		10.30		....	
15	Hd.	12 0	179 57 38.24	Fk.	218 55 10.65	Hd.	....	
15		13 35	38.62		10.20		....	E.
			Instrument reversed.					
17	Hd.	12 0	179 57 33.04	Fk.	218 55 15.50	Hd.	....	W.
17		13 38	33.35		15.52		....	
			Microscope D adjusted.					
20	Hd.	9 45	179 57 31.77	Fk.	218 55 16.92	Hd.	....	
20		11 17	32.12		16.84		....	
21	Hd.	9 45	179 57 31.36	Fk.	218 55 17.81	Hd.	....	
21		11 20	32.06		18.04		65.0	
22	Hd.	9 45	179 57 31.49	Fk.	218 55 18.92	Hd.	79.2	
22		10 55	31.45		19.25		77.2	
			Microscopes adjusted.					
23	Hd.	9 45	179 57 29.65	Fk.	218 55 12.48	Hd.	77.4	
23		11 30	30.70		12.18		73.2	
23		13 35	30.59		12.04		65.8	
24	Hd.	9 45	179 57 30.18	Fk.	218 55 11.54	Hd.	....	
24		11 25	31.20		10.78		58.0	
24		13 35	30.92		10.96		56.2	
			Microscope C adjusted.					
26	Hd.	9 45	179 57 29 18	Fk.	218 55 13.20	Hd.	74.0	
27	Hd.	9 45	179 57 30.42	Fk.	218 55 11.70	Hd.	60.5	
27		11 25	31.06		11.42		56.8	
27		13 35	31.50		12.23		54.6	
30	Hd.	9 45	179 57 30.38	Fk.	218 55 12.50	Hd.	75.6	
30		12 0	31.04		12.10		70.2	
30		13 35	31.49		12.55		67.2	
May 1	Hd.	9 45	179 57 31.21	Fk.	218 55 11.50	Hd.	68.6	
1		11 30	31.42		12.14		64.0	
1		13 35	32.18		11.90		60.6	
			Microscopes adjusted.					
8	U.	13 45	179 57 30.34	U.	218 55 7.26	U.	60.0	
9	U.	13 0	179 57 30.30	U.	218 55 6.84	U.	56.0	
11	U.	12 45	179 57 30.74	U.	218 55 6.14	U.	53.0	
12	U.	13 5	179 57 30.94	U.	218 55 5.76	U.	59.3	
15	U.	13 5	179 57 31.04	U.	218 55 6.24	U.	55.8	
22	U.	13 5	179 57 32.14	U.	218 55 5.40	U.	70.0	
27	U.	13 0	179 57 30.74	Hd.	218 55 3.83	U.	54.5	
			Microscopes C and H adjusted.					
29	U.	13 5	179 57 32.92	Hd.	218 55 7.11	U.	....	
29		15 5	33.42		7.25		....	
29		17 15	33.83		7.12		54.0	
30	U.	13 5	179 57 33.28	Hd.	218 55 8.10	U.	68.5	
30		15 5	33.79		8.10		65.0	
30		17 20	33.78		8.52		62.0	W.

TABLE V.—*Nadir Points of the Circles*—Continued.

Date.	Obs'r.	Sid. Time.		Circle A.	Reader.	Circle B.	Reader.	Temp.	Clamp.
1902		h	m	° ′ ″		° ′ ″		°	
June 1	U.	13	5	179 57 33.04	Hd.	218 55 8.04	U.	71.0	W.
1		15	5	33.15		8.28		68.0	
1		17	20	32.79		9.04		....	
2	U.	13	5	179 57 33.32	Hd.	218 55 7.86	U.	74.3	
2		15	5	33.52		8.55		72.0	
2		17	20	33.20		8.62		70.0	
4	U.	13	5	179 57 33.15	Hd.	218 55 8.04	U.	74.5	
4		15	5	34.35		7.38		71.0	
4		17	25	35.22		6.59		67.0	W.
					Instrument reversed.				
5	U.	13	5	179 57 31.16	Hd.	218 55 7.90	U.	....	E.
5		15	5	31.58		7.98		65.0	
5		17	20	32.12		7.61		62.5	
					Microscope F adjusted.				
6	U.	13	5	179 57 31.06	Hd.	218 55 8.16	U.	72.0	
6		15	5	31.40		8.24		68.8	
6		17	20	31.69		7.98		67.0	
8	U.	13	5	179 57 29.95	Hd.	218 55 8.74	U.	67.7	
8		15	5	30.07		8.62		....	
8		17	22	30.64		8.74		61.0	
9	U.	13	5	179 57 30.90	Hd.	218 55 8.18	U.	65.6	
9		15	5	31.24		7.86		62.0	
9		17	20	31.40		8.15		59.5	
10	U.	13	5	179 57 31.37	Hd.	218 55 8.76	U.	75.0	
10		15	5	31.28		8.54		72.0	
10		17	20	31.06		8.80		71.0	
21	U.	14	10	179 57 28.96	Hd.	218 55 9.75	U.	70.2	
21		16	45	28.56		9.85		....	
23	U.	14	15	179 57 28.31	Hd.	218 55 10.34	U.	64.0	
23		17	38	28.69		10.44		59.5	
26	U.	14	10	179 57 28.72	Hd.	218 55 10.45	U.	72.0	
26		16	25	28.30		10.85		68.1	
					Microscope A adjusted.				
July 8	U.	15	35	179 57 28.50	Hd.	218 55 10.46	U.	83.0	
8		17	40	28.90		10.51		80.0	
9	U.	15	10	179 57 28.61	Hd.	218 55 10.05	U.	....	
					Microscope A adjusted.				
10	U.	15	10	179 57 28.19	Hd.	218 55 9.90	U.	....	
10		17	45	28.36		10.13		....	
11	U.	16	8	179 57 28.94	Hd.	218 55 9.58	U.	70.0	
11		20	5	28.51		9.78		64.0	
12	U.	15	50	179 57 28.82	Hd.	218 55 9.74	U.	72.0	
12		20	5	29.50		9.60		67.3	
22	U.	15	50	179 57 28.25	Hd.	218 55 9.75	U.	73.0	
22		18	30	27.66		10.58		68.0	
26	U.	15	50	179 57 28.51	Hd.	218 55 10.35	U.	76.0	
27	U.	15	45	179 57 28.98	Hd.	218 55 9.76	U.	82.2	
28	U.	15	50	179 57 28.66	Hd.	218 55 9.86	U.	80.0	
31	U.	15	45	179 57 28.36	Hd.	218 55 9.52	U.	77.0	
31		19	20	27.50		10.82		73.0	E.

TABLE V.—*Nadir Points of the Circles*—Continued.

Date.	Obs'r.	Sid. Time.	Circle A.	Reader.	Circle B.	Reader.	Temp.	Clamp.
1902		h m	° ′ ″		° ′ ″		°	
Aug. 2	U.	15 45	179 57 28.42	Hd.	218 55 9.66	U.	80.8	E.
2		18 35	28.71		9.79		77.2	
3	U.	15 45	179 57 28.45	Hd.	218 55 9.82	U.	82.5	
4	U.	15 50	179 57 27.85	Hd.	218 55 9.86	U.	80.8	
4		20 5	27.52		10.62		75.0	
7	U.	15 50	179 57 27.95	Hd.	218 55 9.48	U.	75.0	
7		19 18	28.46		9.00		69.5	
8	Hd.	16 0	179 57 28.28	M.	218 55 9.92	Hd.	81.3	
8		19 20	28.32		10.16		75.5	
11	Hd.	20 5	179 57 28.16	M.	218 55 9.02	Hd.	66.5	
11		21 25	27.15		10.04		....	
12	Hd.	20 5	179 57 27.76	M.	218 55 9.40	Hd.	66.0	
12		21 25	27.56		9.62		63.0	
16	Hd.	13 38	179 57 27.65	Hd.	218 55 9.68	Hd.	72.5	
19	Hd.	19 45	179 57 27.59	M.	218 55 10.44	Hd.	76.8	
19		21 25	27.43		10.96		75.0	
20	Hd.	20 15	179 57 27.13	M.	218 55 9.98	Hd.	....	
21	Hd.	20 5	179 57 27.68	M.	218 55 9.94	Hd.	71.8	
21		21 25	27.28		10.40		71.2	
22	Hd.	20 5	179 57 26.81	M.	218 55 10.28	Hd.	65.6	
22		21 25	26.88		9.98		64.3	
23	Hd.	20 5	179 57 26.75	M.	218 55 10.64	Hd.	66.9	
24	Hd.	20 5	179 57 26.81	M.	218 55 10.65	Hd.	65.0	
24		21 25	26.46		10.86		62.8	
25	Hd.	20 5	179 57 26.68	M.	218 55 10.48	Hd.	68.9	
25		21 25	26.76		10.88		....	E.
				Instrument reversed.				
28	U.	18 15	179 57 33.16	Hd.	218 55 3.47	U.	....	W.
28		21 25	33.55		4.05		67.4	
				Microscope A adjusted.				
29	U.	18 15	179 57 32.79	Hd.	218 55 3.40	U.	....	
29		21 25	33.45		3.68		68.5	
30	U.	18 15	179 57 33.12	Hd.	218 55 4.41	U.	74.3	
30		21 25	33.18		4.51		70.0	
31	U.	18 15	179 57 33.10	Hd.	218 55 4.58	U.	....	
31		21 25	34.52		4.81		72.5	
Sept. 1	U.	18 15	179 57 32.18	Hd.	218 55 5.29	U.	80.0	
1		19 28	33.08		4.90		....	
4	U.	19 0	179 57 32.67	Hd.	218 55 3.40	U.	66.0	
4		21 25	33.42		3.32		....	
5	U.	18 15	179 57 30.56	Hd.	218 55 4.28	U.	....	
5		21 25	31.60		4.18		....	
18	Hd.	22 40	179 57 31.90	M.	218 55 3.32	Hd.	58.5	
18		0 3	32.40		3.26		....	
22	Hd.	22 30	179 57 33.65	M.	218 55 2.05	Hd.	67.0	
22		0 5	34.34		1.98		64.9	W.

TABLE V.—*Nadir Points of the Circles*—Continued.

Date.	Obs'r.	Sid. Time.	Circle A.	Reader.	Circle B.	Reader.	Temp.	Clamp.
1902		h m	° ′ ″		° ′ ″		°	
Sept. 23	Hd.	22 35	179 57 32.92	M.	218 55 3.33	Hd.	69.0	W.
23		0 5	33.58		2.89		67.0	
27	Hd.	22 30	179 57 32.92	M.	218 55 3.06	Hd.	68.0	
29	Hd.	22 30	179 57 33.82	M.	218 55 1.18	Hd.	68.0	
29		0 25	34.90		0.88		66.0	
Oct. 1	Hd.	22 35	179 57 33.08	M.	218 55 1.89	Hd.	54.0	
1		0 5	33.49		1.82		....	
2	Hd.	22 40	179 57 32.15	M.	218 55 2.12	Hd.	....	
2		0 5	32.85		1.61		....	W.
				Instrument reversed.				
3	Hd.	22 35	179 57 24.54	M.	218 55 9.38	Hd.	....	E.
6	Hd.	22 35	179 57 23.84	M.	218 55 9.07	Hd.	....	
6		0 5	23.86		8.92		57.2	
Nov. 13	Hd.	22 35	179 57 21.95	M.	218 55 9.52	Hd.	65.0	
13		0 5	21.91		9.48		61.0	
20	Hd.	22 35	179 57 21.98	M.	218 55 10.48	Hd.	54.0	
20		0 5	21.75		10.82		....	
21	Hd.	22 35	179 57 22.40	M.	218 55 9.30	Hd.	61.0	
21		0 5	22.60		9.55		....	
28	Hd.	22 35	179 57 21.55	M.	218 55 9.95	Hd.	39.0	
28		0 5	22.35		9.15		....	
				Stellar focus adjusted.				
Dec. 1	Hd.	22 35	179 57 22.82	M.	218 55 8.08	Hd.	41.0	
1		0 5	22.29		8.54		40.5	E.

SIX-INCH TRANSIT CIRCLE.

OBSERVATIONS AND REDUCTIONS.

1901 NOVEMBER 15. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	α Andromedæ	6	3 21.36	−0.05	**−0.71**	0 3 20.59	− 1.38	349 35 33.45	14.98	10.87	+28 33 11.4	12.4	−13.6
2	κ² Sculptoris	9	6 37.50	+0.05	0.72	0 6 36.83	0.90	292 43 44.45	26.88	140.60	−28 20 47.2	45.4	+ 1.8
3	35 Piscium	9	9 57.79	−0.02	0.73	0 9 57.04	1.14	329 19 33.75	13.22	35.18	+ 8 16 47.4	46.4	− 8.6
4	σ Andromedæ	9	13 14.72	0.08	0.73	0 13 13.91	1.61	357 17 0.25	42.42	2.78	36 14 46.1	48.0	14.5
5	d Piscium	9	15 35.17	−0.01	0.73	0 15 34.43	1.16	328 41 42.08	23.32	36.08	7 38 54.8	55.6	8.2
6	44 Piscium	9	20 24.58	0.00	**−0.74**	0 20 23.85	− 1.12	322 26 53.58	36.15	45.61	+ 1 23 56.8	58.9	− 6.3
7	12 Ceti	9	25 4.07	+0.01	**−0.73**	0 25 3.34	− 1.09	316 33 16.10	58.48	56.18	− 4 29 51.2	49.3	− 4.7
8	κ Cassiopeiæ	9	27 29.43	−0.19	0.74	0 27 28.50	3.07	23 25 28.15	11.10	25.82	+62 23 42.7	45.1	16.4
9	13 Ceti	9	30 14.07	0.00	0.74	0 30 13.33	1.12	316 55 15.10	57.80	55.50	− 4 7 51.6	49.3	− 4.6
10	82 B. Ceti	9	32 20.46	+0.04	0.74	0 32 19.76	1.02	295 45 50.58	32.45	122.43	−25 18 22.9	21.6	+ 1.2
11	α Cassiopeiæ	9	35 0.02	−0.15	0.74	0 34 59.13	2.58	17 2 6.75	49.62	18.29	+56 0 13.8	16.2	−15.3
12	21 Cassiopeiæ	9	39 16.64	−0.37	−0.74	0 39 15.53	− 5.41	35 28 53.45	34.05	42.49	+74 27 24.5	24.6	−15.6
13	δ Piscium	9	43 37.86	−0.02	**−0.75**	0 43 37.09	− 1.26	328 6 2.45	44.98	37.00	+ 7 3 14.2	16.3	− 6.9
14	20 Ceti	9	48 1.92	0.00	0.75	0 48 1.17	1.20	319 22 32.98	12.65	51.00	− 1 40 29.2	30.0	4.6
15	γ Cassiopeiæ	9	50 51.30	−0.19	0.75	0 50 50.36	3.04	21 13 10.20	53.00	23.19	+60 11 22.1	24.4	−14.3
16	α Sculptoris	9	53 54.95	+0.06	0.75	0 53 54.26	1.12	291 11 26.32	8.60	152.27	−29 53 17.0	15.2	+ 2.4
17	ε Piscium	9	57 53.48	−0.02	**0.76**	0 57 52.70	1.33	328 24 40.55	22.25	36.58	+ 7 21 52.7	54.0	− 6.5
18	72 Piscium	9	59 57.10	−0.03	−0.76	0 59 56.31	− 1.43	335 27 56.02	36.60	27.16	+14 25 17.6	17.8	− 7.8
19	e Piscium	9	3 21.32	−0.01	−0.76	1 3 20.55	− 1.33	326 10 50.52	31.92	39.86	+ 5 7 59.4	60.4	− 5.8
20	g Piscium	9	5 44.98	0.07	0.76	1 5 44.15	1.75	351 56 43.78	24.72	8.39	30 54 24.0	24.6	10.3
21	ζ¹ Piscium	9	8 38.76	0.02	0.76	1 8 37.98	1.36	328 6 22.20	2.28	37.03	7 3 33.9	33.6	6.0
22	f Piscium	9	12 46.71	0.01	0.77	1 12 45.93	1.35	324 8 55.65	37.32	42.98	3 6 1.5	2.7	5.0
23	l Piscium	9	15 44.67	0.06	0.77	1 15 43.84	1.73	349 16 7.18	47.92	11.25	28 13 44.6	45.0	9.3
24	α Ursæ Minoris	8	24 45.02	−5.53	−0.77	1 24 38.72	−74.21	49 48 16.32	56.76	70.55	+88 47 15.7	15.2	−10.5
25	50 Cassiopeiæ	9	55 9.79	−0.39	−0.79	1 55 8.61	− 5.48	32 58 31.15	11.68	38.76	+71 56 58.6	58.6	− 8.2
26	ν Fornacis	9	0 8.03	+0.07	0.80	2 0 7.30	1.38	291 18 39.90	19.50	151.43	−29 46 2.5	3.5	+ 2.0
27	β Trianguli	9	3 45.52	−0.09	**0.83**	2 3 44.63	2.03	355 33 46.90	28.85	4.59	+34 31 30.9	32.6	− 6.6
28	55 Cassiopeiæ	9	6 52.39	0.29	0.80	2 6 51.30	4.27	27 5 43.25	25.08	30.58	66 4 2.5	3.9	7.1
29	γ Trianguli	9	11 32.03	−0.09	0.80	2 11 31.14	2.02	354 26 2.70	43.25	5.77	+33 23 45.6	45.8	6.0
30	ο Ceti	8	14 25.98	+0.01	−0.80	2 14 25.19	− 1.46	317 37 48.08	28.72	54.31	− 3 25 17.4	17.2	− 2.1
31	κ Fornacis	9	18 5.69	+0.06	−0.81	2 18 4.94	− 1.42	296 48 26.85	7.75	117.38	−24 15 41.6	41.2	+ 1.0
32	ι Cassiopeiæ	9	21 4.59	−0.32	0.81	2 21 3.46	4.46	27 59 29.42	9.05	31.79	+66 57 49.9	49.0	− 5.7
33	27 Arietis	9	25 30.63	−0.04	0.81	2 25 29.78	1.71	338 18 53.75	33.72	23.69	+17 16 18.8	18.4	3.9
34	σ Ceti	8	27 28.70	+0.04	0.81	2 27 27.93	1.43	305 23 5.95	48.00	83.75	−15 40 28.9	27.4	0.2
35	128 H¹. Ceti	9	30 44.69	−0.02	0.82	2 30 43.85	1.57	327 28 2.02	43.80	38.01	+ 6 25 12.8	14.1	2.4
36	ν Arietis	9	33 17.65	−0.06	**−0.81**	2 33 16.77	− 1.79	342 34 50.50	32.42	18.69	+21 32 20.5	22.1	− 3.8
37	118 H¹. Cassiopeiæ	9	36 28.93	−0.33	−0.82	2 36 27.78	− 4.61	28 26 13.30	54.45	32.39	+67 24 34.4	35.0	− 4.0
38	π Ceti	9	39 29.73	+0.03	0.82	2 39 28.94	1.46	306 47 6.25	47.92	79.60	−14 16 24.4	23.3	0.3
39	39 Arietis	9	42 7.13	−0.08	0.82	2 42 6.23	1.96	349 52 49.65	30.45	10.62	+28 50 27.7	28.2	3.5
40	41 Arietis	9	44 15.57	−0.07	**0.80**	2 44 14.68	1.92	347 53 51.90	31.88	12.76	+26 51 27.8	27.4	− 2.7
41	τ² Eridani	9	46 37.81	+0.05	0.83	2 46 37.03	− 1.48	299 39 28.35	7.85	104.35	−21 24 27.1	28.1	+ 0.5
42	β Ursæ Minoris S. P.	9	50 53.41	+0.52	−0.83	14 50 53.10	+ 6.09	66 26 32.35	12.88	136.49	+74 33 21.9	22.1	− 0.5
43	λ Ceti	9	54 30.14	−0.02	−0.83	2 54 29.29	− 1.64	329 33 50.62	29.98	35.04	+ 8 31 4.4	3.3	− 1.9
44	γ Persei	9	57 45.50	0.19	0.83	2 57 44.48	2.98	14 9 21.42	1.92	15.13	53 7 25.3	25.3	2.3
45	Lal. 5724	9	1 3.25	−0.04	−0.83	3 1 2.38	− 1.70	333 51 16.55	57.38	29.28	+12 48 36.0	36.4	− 1.8

1901 NOVEMBER 19. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
46	33 Piscium	9	0 21.41	0.00	**−1.30**	0 0 20.09	− 0.93	314 47 54.85	36.90	59.98	6 15 16.0	14.6	− 4.5
47	α Andromedæ	9	3 21.93	−0.04	**1.33**	0 3 20.57	1.34	349 35 32.65	13.82	10.92	+28 33 10.7	11.3	13.8
48	22 Andromedæ	9	5 16.58	0.07	1.32	0 5 15.19	1.78	6 33 57.05	37.70	6.92	45 31 53.1	53.0	17.0
49	γ Pegasi	9	8 13.82	−0.02	**1.34**	0 8 12.48	− 1.16	335 41 6.50	48.65	26.95	14 38 28.6	30.2	−10.2
50	6 B. Ursæ Minoris S. P.	7	13 41.99	+2.37	1.31	12 13 43.05	+39.43	52 46 33.88	15.78	78.70	88 14 18.1	16.8	+17.8
51	44 Piscium	9	20 25.09	−0.01	**−1.27**	0 20 23.77	− 1.09	322 26 52.95	35.38	45.93	+ 1 23 56.2	58.0	− 6.1
52	12 Ceti	9	25 4.63	0.00	**−1.31**	0 25 3.32	− 1.06	316 33 15.38	57.70	56.58	− 4 29 52.0	50.4	− 4.4
53	κ Cassiopeiæ	9	27 29.85	−0.15	1.31	0 27 28.39	2.96	23 25 27.88	10.25	26.01	+62 23 43.0	44.6	17.2
54	13 Ceti	9	30 14.62	0.00	1.31	0 30 13.31	1.09	316 55 13.92	56.80	55.91	− 4 7 52.7	50.6	− 4.2
55	82 B. Ceti	9	32 20.97	+0.03	1.31	0 32 19.69	0.98	295 45 49.18	31.55	123.34	−25 18 24.8	23.2	+ 1.8
56	α Cassiopeiæ	9	35 0.41	−0.12	1.31	0 34 58.98	2.52	17 2 5.32	48.95	18.42	+56 0 12.9	15.8	−16.1
57	21 Cassiopeiæ	8	39 16.89	−0.29	1.31	0 39 15.29	5.25	35 28 52.30	35.90	42.83	+74 27 24.2	27.0	−16.6

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
15 23 57	75.10	+ 1.0	+0.5
0 23	75.11	+ 1.0	+ 0.2
0 53	75.15	+0.5	−0.3
1 26	.....	...	0.3
1 57	75.13	+0.2	−0.6
2 39	.....	...	−0.8
3 4	75.17	−0.4	−0.9
19 23 57	75.96	+3.2	+ 2.2
0 37	75.99	+2.5	+0.9

Bisections are made at II and V, except as noted below.

1, 8, 11, 12, 15, 25, 28, 30, 32, 34, 37, 44, 48. 53, 56, 57. } Bisections at III, V.

24. Bisections at c_1, c_2, c_4, c_5.

42. Bisections at V, III.

50. Bisections at c_5, c_2.

Notes.

3, 37, 56. First bisection doubtful.
18. Circle A read on 28′ division.
25. α rather poor.
26. Very unsteady.
40. Circle A read on 54′ division.
43, 48. Circle A read on 34′ division.
46. Circle A read on 48′ division.

1–45. Seeing 3.
46–57. Seeing 4.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–45, from nadir	+ 2	33.94	53.31
46–57, from nadir		*	*

*Interpolated from diagram.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	ΔT+m.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	δ Piscium	9	43 38.39	−0.02	**−1.30**	0 43 37.06	−1.24	328 6 1.72	43.08	37.28	+7 3 13.7	14.4	−6.8
2	20 Ceti	9	48 2.44	0.00	1.31	0 48 1.13	1.17	319 22 31.92	12.50	51.38	−1 40 30.1	30.3	4.3
3	γ Cassiopeiæ	9	50 51.72	−0.15	1.31	0 50 50.26	2.98	21 13 10.90	52.75	23.36	+60 11 23.5	24.6	−15.2
4	α Sculptoris	9	53 55.45	+0.04	1.31	0 53 54.18	1.08	291 11 26.52	8.32	153.39	−29 53 17.4	16.4	+3.1
5	ε Piscium	9	57 53.95	−0.02	**1.25**	0 57 52.62	1.31	328 24 39.92	20.50	36.86	+7 21 52.4	52.3	−6.4
6	72 Piscium	9	59 57.58	−0.03	−1.31	0 59 56.24	−1.41	335 27 53.98	36.28	27.37	+14 25 15.9	17.5	−7.8
7	e Piscium	9	3 21.87	−0.01	−1.30	1 3 20.56	−1.31	326 10 49.05	30.30	40.18	+5 7 58.2	58.8	−5.6
8	g Piscium	9	5 45.41	0.06	1.30	1 5 44.05	1.72	351 56 42.65	23.80	8.46	30 54 23.6	24.0	10.7
9	ζ^1 Piscium	9	8 39.27	0.02	1.30	1 8 37.95	1.34	328 6 20.52	0.68	37.33	7 3 32.6	32.0	5.8
10	f Piscium	9	12 47.24	0.01	**1.30**	1 12 45.93	1.33	324 8 54.18	35.48	43.37	3 6 0.2	0.8	4.8
11	l Piscium	9	15 45.17	0.05	1.30	1 15 43.82	1.71	349 16 6.22	47.52	11.36	28 13 44.1	44.8	9.6
12	α Ursæ Minoris	9	24 42.58	−4.25	−1.30	1 24 37.03	−72.15	49 48 14.78	55.45	71.25	+88 47 15.5	14.9	−11.8
13	τ Andromedæ	9	34 50.99	−0.08	−1.30	1 34 49.61	−2.12	1 7 9.80	50.20	1.02	+40 4 60.3	59.9	−9.9
14	φ Persei	9	37 34.79	−0.11	1.30	1 37 33.38	2.58	11 13 50.52	31.00	12.01	+50 11 52.0	51.7	−10.4
15	ε Sculptoris	9	41 5.94	+0.04	1.30	1 41 4.68	1.29	295 31 40.42	22.75	125.26	−25 32 35.2	33.7	+2.1
16	54 Ceti	9	45 42.72	−0.17	1.30	1 45 41.25	1.52	331 36 16.90	58.75	32.52	+10 33 33.9	35.0	−5.0
17	ξ Piscium	9	48 31.59	0.01	**1.27**	1 48 30.28	1.44	323 45 11.18	54.60	44.11	2 42 16.6	19.3	3.5
18	ι Arietis	9	52 2.66	−0.03	−1.30	1 52 1.33	−1.64	338 22 59.72	41.50	23.84	+17 20 25.4	26.4	−5.8
19	50 Cassiopeiæ	9	55 10.34	−0.29	−1.30	1 55 8.75	−5.44	32 58 30.35	10.92	39.18	+71 56 58.9	58.7	−9.4
20	ν Fornacis	9	0 8.54	+0.04	1.29	2 0 7.29	1.37	291 18 38.85	21.65	153.11	−29 46 4.5	2.6	+2.8
21	β Trianguli	9	3 46.06	−0.07	**1.38**	2 3 44.70	2.04	335 33 47.48	29.48	4.64	+34 31 32.2	33.6	−7.1
22	55 Cassiopeiæ	9	6 52.77	0.22	1.29	2 6 51.26	4.26	27 5 41.78	23.88	30.93	66 4 2.2	3.5	8.2
23	γ Trianguli	9	11 32.53	−0.07	1.29	2 11 31.17	2.03	354 26 1.78	42.95	5.83	+33 23 45.3	44.9	6.5
24	o Ceti	9	14 26.50	0.00	−1.29	2 14 25.21	−1.46	317 37 47.18	28.68	54.93	−3 25 18.0	17.4	−1.7
25	κ Fornacis	9	18 6.21	+0.04	−1.29	2 18 4.96	−1.42	296 48 26.65	7.62	118.71	−24 15 42.2	42.2	+1.9
26	128 H^1. Ceti	9	30 45.24	−0.02	1.29	2 30 43.93	1.58	327 28 0.55	42.28	38.47	+6 25 11.8	12.7	−2.3
27	ν Arietis	9	33 18.13	0.04	1.29	2 33 16.80	1.81	342 34 49.75	31.48	18.91	21 32 20.5	21.4	4.0
28	118 H^1. Cassiopeiæ	9	36 29.33	−0.24	1.29	2 36 27.80	4.61	28 26 13.15	53.92	32.79	+67 24 35.6	35.5	−5.2
29	π Ceti	9	39 30.27	+0.02	1.29	2 39 29.00	1.47	306 47 6.20	48.02	80.57	−14 16 24.5	23.6	+0.4
30	39 Arietis	9	42 7.60	−0.06	−1.29	2 42 6.25	−1.98	349 52 50.25	30.18	10.75	+28 50 29.1	28.3	−4.0
31	41 Arietis	9	44 16.10	−0.05	**−1.34**	2 44 14.76	−1.93	347 53 49.92	32.05	12.92	+26 51 26.6	28.0	3.6
32	τ^2 Eridani	9	46 38.31	+0.03	1.29	2 46 37.05	−1.49	299 39 28.52	6.95	105.66	−21 24 27.2	29.7	+1.3
33	β Ursæ Minoris S. P.	7	50 54.05	+0.36	1.29	14 50 53.12	+6.06	66 26 30.58	11.22	138.20	+74 33 21.2	21.5	+1.0
34	λ Ceti	9	54 30.59	−0.02	1.28	2 54 29.29	−1.66	329 33 49.60	31.28	35.49	8 31 3.9	4.8	−1.8
35	γ Persei	9	57 46.02	0.14	1.28	2 57 44.60	3.02	14 9 20.18	1.80	15.31	53 7 25.3	26.0	3.2
36	Lal. 5724	9	1 3.83	−0.03	−1.28	3 1 2.52	−1.72	333 51 15.82	57.38	29.64	+12 48 36.0	36.7	−1.8
37	δ Arietis	9	6 4.55	−0.04	**−1.28**	3 6 3.23	−1.82	340 23 57.08	36.62	21.50	+19 21 25.4	24.1	−1.9
38	1 H^1. Camelop	9	11 27.42	0.22	1.28	3 11 25.92	4.31	26 19 20.48	1.00	30.00	65 17 40.3	39.8	1.6
39	κ Ceti	9	14 16.17	0.01	1.28	3 14 14.88	1.63	324 3 34.88	17.22	43.78	3 0 41.0	42.5	0.7
40	α Persei	9	17 23.43	0.12	1.28	3 17 22.03	2.79	10 32 46.00	27.15	11.32	49 30 47.2	47.4	1.5
41	o Tauri	9	19 35.29	0.02	**1.29**	3 19 33.99	1.69	329 43 50.42	30.75	35.27	8 41 5.1	4.5	0.8
42	2 H. Camelop	7	21 12.64	−0.17	−1.28	3 21 11.19	−3.57	20 37 44.62	25.90	22.84	+59 35 57.4	57.7	−0.7
43	s Tauri	9	25 6.03	−0.02	−1.28	3 25 4.73	−1.72	332 2 45.38	26.55	32.06	+11 0 3.2	3.5	−0.7
44	ε Eridani	9	28 21.63	+0.01	**1.30**	3 28 20.36	1.57	311 15 56.25	38.38	68.80	−9 47 22.5	21.3	+0.4
45	10 Tauri	9	31 55.14	0.00	1.28	3 31 53.86	1.62	321 8 29.22	8.35	48.69	+0 5 30.5	28.7	−0.1
46	Piazzi III, 103	9	33 56.21	−0.03	1.28	3 33 54.90	1.79	337 15 40.92	23.28	25.32	16 13 5.5	7.0	0.4
47	B. D. +19° 579	9	36 52.77	0.04	1.28	3 36 51.45	1.84	340 52 45.85	26.80	20.95	19 50 14.8	14.9	−0.2
48	η Tauri	6	41 42.64	−0.05	**−1.24**	3 41 41.31	−1.92	344 50 34.42	15.75	16.36	+23 48 8.2	8.5	+0.1
49	Mayer 136	9	47 36.84	−0.04	−1.27	3 47 35.53	−1.89	338 5 42.08	23.98	24.31	+17 3 7.8	8.8	+0.3
50	ε Persei	9	51 20.14	−0.09	1.27	3 51 18.78	2.32	0 45 46.48	28.25	0.85	+39 43 37.4	38.2	1.1
51	γ Eridani	9	53 30.20	+0.02	**1.22**	3 53 28.95	1.58	307 16 16.45	58.20	79.38	−13 47 12.8	12.0	0.8
52	τ^9 Eridani	9	55 47.66	+0.04	1.27	3 55 46.43	1.60	296 46 32.48	12.38	119.34	−24 17 36.6	37.8	1.0
53	λ Persei	9	59 20.90	−0.12	−1.27	3 59 19.51	−2.79	11 7 4.52	44.95	11.96	+50 5 6.6	6.0	−2.3

1901 NOVEMBER 20. CLAMP WEST.

UPDEGRAFF, OBSERVER.

HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	ΔT+m.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
54	12 Ceti	9	25 4.49	0.00	**−1.18**	0 25 3.30	−1.05	316 33 13.22	56.52	56.73	−4 29 52.8	50.9	−4.3
55	κ Cassiopeiæ	9	27 29.69	−0.08	1.19	0 27 28.42	2.93	23 25 26.28	10.12	26.07	+62 23 42.9	45.4	17.4
56	13 Ceti	9	30 14.48	0.00	1.19	0 30 13.29	1.08	316 55 14.38	56.55	56.03	−4 7 51.0	50.2	−4.2
57	82 B. Ceti	9	32 20.87	+0.02	1.19	0 32 19.70	0.97	295 45 47.92	31.58	123.59	−25 18 24.9	22.6	+2.0
58	α Cassiopeiæ	9	35 0.26	−0.07	1.19	0 34 59.00	2.50	17 2 5.62	48.88	18.46	+56 0 14.7	16.5	−16.2
59	21 Cassiopeiæ	9	39 16.81	−0.17	−1.19	0 39 15.45	5.21	35 28 51.35	33.48	42.89	+74 27 24.7	25.4	−16.9

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
19 1 39	75.99	+1.0	−0.2
2 9	......	...	−0.6
2 53	76.01	0.0	−1.2
3 27	......	...	−1.3
4 6	76.02	−0.8	−1.7
20 0 29	76.21	−2.0	−1.4

Bisections are made at II and V, except as noted below.

3, 8, 13, 14, 19, 22, 28, 35, 38, 40, 42, 50, 51, 53, 54, 55, 58, 59. Bisections at III, V.
12. Bisections at c$_1$, c$_2$, c$_4$, c$_5$.
33. Bisections at IV, III.
48. Bisections at c$_1$, V.

Notes.

6. Circle A read on 28′ division.
14. Circle A read on 14′ division.
31. Circle A read on 54′ division.
34. Circle A read on 34′ division.
37. Circle A read on 24′ division.
41. Circle A read on 44′ division.
44. Circle A read on 16′ division.

1–38. Seeing 4.
39–59. Seeing 3–4.

Adopted Zenith Point Corrections.

	A.	B.
	″	″
1–53, from nadir......	*	*
54–59, from nadir......	*	54.26

*Interpolated from diagram

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
								A.	B.		A.	B.	
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	δ Piscium	9	43 38.21	0.00	—**1.15**	0 43 37.02	— 1.23	328 6 1.30	42.95	37.34	+ 7 3 14.5	14.9	— 6.7
2	20 Ceti	9	48 2.33	0.00	1.19	0 48 1.14	1.17	319 22 30.65	11.95	51.48	— 1 40 30.2	30.2	4.3
3	γ Cassiopeiæ	9	50 51.54	—0.10	1.19	0 50 50.25	2.96	21 13 10.32	52.75	23.40	+60 11 24.2	25.3	—15.3
4	α Sculptoris	9	53 55.34	+0.04	1.19	0 53 54.19	1.07	291 11 25.68	7.75	153.67	—29 53 17.2	16.6	+ 3.3
5	ε Piscium	9	57 53.89	—0.01	**1.21**	0 57 52.69	1.30	328 24 39.25	21.62	36.93	+ 7 21 52.9	54.0	— 6.3
6	72 Piscium	9	59 57.50	—0.01	—1.19	0 59 56.30	— 1.40	335 27 53.78	35.88	27.42	+14 25 16.9	17.8	— 7.8
7	e Piscium	9	3 21.74	0.00	—1.19	1 3 20.55	— 1.30	326 10 48.65	30.68	40.25	+ 5 7 58.9	59.3	— 5.5
8	g Piscium	9	5 45.31	—0.04	1.19	1 5 44.08	1.72	351 56 41.45	22.15	8.48	30 54 23.3	22.9	10.7
9	ζ^1 Piscium	9	8 39.17	—0.01	1.19	1 8 37.97	1.34	328 6 20.45	1.42	37.41	7 3 33.6	33.3	5.8
10	f Piscium	9	12 47.14	0.00	1.19	1 12 45.95	1.33	324 8 53.75	36.18	43.47	3 6 0.8	2.0	4.7
11	l Piscium	9	15 45.06	—0.03	1.19	1 15 43.84	1.70	349 16 6.40	47.65	11.38	28 13 45.4	45.5	9.7
12	α Ursæ Minoris	9	24 40.06	—3.21	—1.19	1 24 35.66	—71.63	49 48 15.31	56.29	71.45	+88 47 17.3	16.6	—12.1
13	τ Andromedæ	9	34 50.81	—0.06	—1.19	1 34 49.56	— 2.11	1 7 10.48	51.45	1.23	+40 5 1.9	1.9	—10.0
14	φ Persei	9	37 34.62	—0.08	1.19	1 37 33.45	2.57	11 13 50.40	30.50	12.04	+50 11 52.9	51.8	—10.6
15	ε Sculptoris	9	41 5.85	+0.04	1.19	1 41 4.70	1.28	295 31 40.80	22.85	125.57	—25 32 34.2	33.4	+ 2.3
16	54 Ceti	9	45 42.57	—0.14	1.19	1 45 41.24	1.52	331 36 18.72	0.12	32.59	+10 33 36.5	36.8	— 4.9
17	ξ Piscium	9	48 31.49	0.00	**1.18**	1 48 30.30	1.44	323 45 12.40	55.35	44.20	2 42 18.6	20.5	3.4
18	ι Arietis	9	52 2.54	—0.02	—1.19	1 52 1.33	— 1.63	338 23 0.28	42.00	23.88	+17 20 26.7	27.4	— 5.8
19	50 Cassiopeiæ	9	55 10.22	—0.23	—1.19	1 55 8.80	— 5.42	32 58 30.80	11.20	39.24	+71 56 60.3	59.5	— 9.7
20	ν Fornacis	9	0 8.43	+0.05	1.19	2 0 7.29	1.37	291 18 38.90	20.78	153.29	—29 46 3.8	3.1	+ 3.1
21	β Trianguli	9	3 45.81	—0.05	**1.16**	2 3 44.57	2.03	355 33 47.08	29.55	4.64	+34 31 32.6	34.2	— 7.2
22	55 Cassiopeiæ	9	6 52.69	0.17	1.19	2 6 51.33	4.25	27 5 41.60	23.90	30.94	66 4 2.8	4.0	8.5
23	γ Trianguli	9	11 32.39	—0.05	1.19	2 11 31.15	2.03	354 26 1.45	44.05	5.83	+33 23 45.8	47.5	6.5
24	ο Ceti	9	14 26.39	+0.01	—1.19	2 14 25.21	— 1.46	317 37 46.90	27.50	54.88	— 3 25 17.6	18.1	— 1.6
25	κ Fornacis	9	18 6.11	+0.04	—1.19	2 18 4.96	— 1.42	296 48 25.38	6.40	118.55	—24 15 42.7	42.8	+ 2.0
26	ι Cassiopeiæ	9	21 4.75	—0.18	1.19	2 21 3.38	4.45	27 59 29.08	9.25	32.09	+66 57 51.4	50.5	— 7.1
27	27 Arietis	9	25 31.04	—0.02	1.19	2 25 29.83	1.72	338 18 52.48	33.20	23.90	+17 16 18.8	18.6	— 4.0
28	σ Ceti	9	27 29.21	+0.02	1.19	2 27 28.04	1.45	305 23 5.08	47.40	84.47	—15 40 29.0	27.7	+ 0.6
29	π Ceti	9	39 30.14	+0.02	1.19	2 39 28.97	1.48	306 47 5.18	46.98	80.30	—14 16 24.8	24.0	+ 0.5
30	39 Arietis	9	42 7.50	—0.04	—1.19	2 42 6.27	— 1.98	349 52 49.72	30.78	10.71	+28 50 29.1	29.3	— 4.0
31	41 Arietis	9	44 15.94	—0.04	—**1.19**	2 44 14.71	— 1.93	347 53 51.32	31.52	12.87	+26 51 28.6	27.9	— 3.8
32	τ^2 Eridani	9	46 38.27	+0.04	1.19	2 46 37.12	— 1.49	299 39 28.12	6.88	105.29	—21 24 26.8	29.1	+ 1.5
33	β Ursæ Minoris S. P.	9	50 54.29	+0.29	1.19	14 50 53.39	+ 6.04	66 26 32.00	12.18	137.72	+74 33 19.6	20.6	+ 1.4
34	λ Ceti	9	54 30.54	—0.01	1.19	2 54 29.34	— 1.66	329 33 49.98	29.30	35.37	8 31 4.8	3.2	— 1.7
35	γ Persei	9	57 45.90	0.11	1.19	2 57 44.60	3.03	14 9 20.32	1.50	15.27	53 7 25.8	26.0	3.4
36	Lal. 5724	9	1 3.71	—0.02	—1.19	3 1 2.50	— 1.72	333 51 15.50	56.92	29.55	+12 48 36.1	36.7	— 1.8
37	δ Arietis	9	6 4.44	—0.03	—**1.18**	3 6 3.22	— 1.82	340 23 56.68	36.30	21.44	+19 21 25.3	24.2	— 2.0
38	1 H^1. Camelop	9	11 27.26	—0.18	1.19	3 11 25.89	4.31	26 19 20.48	1.45	29.92	65 17 40.5	40.5	1.9
39	κ Ceti	9	14 16.01	0.00	1.19	3 14 14.82	1.64	324 3 33.80	16.32	43.68	3 0 40.3	42.0	0.6
40	α Persei	9	17 23.37	—0.09	1.19	3 17 22.09	2.80	10 32 44.68	26.42	11.30	49 30 46.1	47.0	1.7
41	ο Tauri	9	19 35.21	0.01	**1.22**	3 19 34.01	1.69	329 43 49.90	29.55	35.20	8 41 4.8	3.7	0.8
42	s Tauri	9	25 5.92	—0.01	—1.19	3 25 4.72	— 1.73	332 2 44.18	26.35	32.01	+11 0 2.3	3.7	— 0.6
43	ε Eridani	9	28 21.58	+0.02	—**1.25**	3 28 20.41	— 1.58	311 15 56.65	37.70	68.71	— 9 47 21.8	21.7	+ 0.6
44	10 Tauri	9	31 55.09	0.00	1.19	3 31 53.90	1.63	321 8 27.52	7.35	48.62	+ 0 5 29.0	28.0	0.0
45	Piazzi III, 103	9	33 56.09	—0.02	1.19	3 33 54.88	1.80	337 15 40.55	21.42	25.29	16 13 5.4	5.4	— 0.4
46	13 Tauri	9	36 42.73	0.03	1.19	3 36 41.51	1.85	340 25 43.45	25.35	21.46	19 23 12.0	13.2	— 0.3
47	ν Persei	7	38 35.67	0.07	1.19	3 38 34.41	2.44	3 18 14.62	56.48	3.54	42 16 8.3	9.3	0.0
48	η Tauri	9	41 42.61	—0.04	—**1.21**	3 41 41.38	— 1.93	344 50 32.58	15.30	16.35	+23 48 6.2	8.3	+ 0.1
49	τ^7 Eridani	9	43 29.54	+0.04	—1.19	3 43 28.39	— 1.60	296 53 25.58	7.92	118.61	—24 10 42.8	41.3	+ 1.4
50	Mayer 136	9	47 36.75	—0.02	1.19	3 47 35.54	1.81	338 5 41.38	22.98	24.29	+17 3 7.1	8.0	0.3
51	ε Persei	9	51 19.99	—0.06	1.19	3 51 18.74	2.33	0 45 43.75	25.82	0.85	+39 43 34.7	35.9	0.9
52	γ Eridani	9	53 30.11	+0.02	**1.12**	3 53 28.94	1.59	307 16 16.18	56.90	79.34	—13 47 13.0	13.1	0.9
53	τ^9 Eridani	9	55 47.52	+0.04	1.19	3 55 46.37	1.61	296 46 28.25	10.72	119.32	—24 17 40.9	39.2	1.2
54	λ Persei	9	59 20.83	—0.10	—1.19	3 59 19.54	— 2.80	11 7 4.32	44.72	11.96	+50 5 6.3	5.9	+ 2.1

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
20 1 2	.....	...	+0.9
1 33	76.25	+1.0	0.0
2 2	.....	...	+0.1
2 30	76.23	+0.7	+0.9
3 10	76.24	+0.7	+0.2
3 58	76.24	+0.0	—0.9

Bisections are made at II and V, except as noted below.

3, 14, 19, 22, 26, 35, 38, 40, 45, 47, 51, 54.	Bisections at III, V.
12.	Bisections at c_1, c_2, c_4, c_5.
33.	Bisections at V, III.
42.	Bisections at II, VI.

Notes.

6.	Circle A read on 28′ division.
13.	Observed head north.
14.	Circle A read on 14′ division.
31.	Circle A read on 54′ division.
34.	Circle A read on 34′ division.
34, 52.	Very unsteady; poor.
37.	Circle A read on 24′ division.
41.	Circle A read on 44′ division.
43.	Circle A read on 16′ division.

1–54. Seeing 3–4.

Adopted Zenith Point Corrections.

	A. ″	B. ″
1–54, from nadir.......	*	54.26

*Interpolated from diagram.

1901 NOVEMBER 25. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	33 Piscium	9	0 20.48	+0.02	−**0.45**	0 0 20.04	− 0.87	314 47 51.52	33.92	58.47	− 6 15 17.1	15.1	− 3.9
2	α Andromedæ	9	3 20.99	−0.03	**0.47**	0 3 20.50	1.27	349 35 32.82	13.50	10.65	+28 33 12.0	12.2	14.1
3	22 Andromedæ	9	5 15.64	0.06	0.46	0 5 15.12	1.69	6 33 57.75	37.90	6.75	45 31 54.3	54.0	17.6
4	γ Pegasi	9	8 12.89	−0.01	**0.47**	0 8 12.42	− 1.11	335 41 5.48	47.40	26.25	14 38 28.9	30.6	−10.1
5	6 B. Ursæ Minoris s. p.	6	13 47.00	+1.94	0.46	12 13 48.48	+36.38	52 46 37.22	18.98	76.61	88 14 15.9	14.7	+19.4
6	κ Cassiopeiæ	9	27 28.81	−0.12	−0.46	0 27 28.23	− 2.82	23 25 29.15	11.75	25.28	+62 23 44.1	46.3	−18.4
7	13 Ceti	9	30 13.73	+0.01	−0.46	0 30 13.28	− 1.04	316 55 11.58	53.70	54.35	− 4 7 53.0	51.2	− 3.8
8	82 B. Ceti	9	32 20.07	+0.04	0.45	0 32 19.66	0.92	295 45 44.72	26.98	119.92	−25 18 25.3	23.5	+ 2.7
9	α Cassiopeiæ	9	34 59.47	−0.11	0.45	0 34 58.91	2.41	17 2 6.70	50.05	17.90	+56 0 14.3	17.3	−17.1
10	21 Cassiopeiæ	9	39 15.73	0.25	0.45	0 39 15.03	4.98	35 28 53.80	35.15	41.60	74 27 25.0	25.9	18.0
11	l Piscium	9	15 44.31	0.04	0.44	1 15 43.83	1.68	349 16 4.82	45.48	11.02	28 13 43.4	43.8	9.9
12	α Ursæ Minoris	6	24 37.57	−4.16	−0.44	1 24 32.97	−69.47	49 48 19.57	59.40	69.14	+88 47 18.2	17.8	−13.6
13	ι Arietis	9	52 1.82	−0.02	−0.43	1 52 1.37	− 1.63	338 22 58.80	39.58	23.10	+17 20 25.4	25.9	− 5.7
14	50 Cassiopeiæ	9	55 9.38	−0.30	0.43	1 55 8.65	5.34	32 58 33.92	13.38	37.97	+71 57 1.5	0.6	−11.1
15	ν Fornacis	9	0 7.62	+0.07	0.43	2 0 7.26	1.34	291 18 33.80	14.00	148.36	−29 46 4.6	4.9	+ 4.2
16	β Trianguli	9	3 45.09	−0.07	**0.42**	2 3 44.59	2.03	355 33 47.00	29.18	4.49	+34 31 32.1	34.1	− 7.8
17	55 Cassiopeiæ	9	6 51.92	0.24	0.43	2 6 51.25	4.21	27 5 44.55	26.02	29.96	66 4 4.2	5.2	9.8
18	γ Trianguli	9	11 31.68	−0.07	−0.42	2 11 31.19	− 2.02	354 26 1.30	42.40	5.65	+33 23 45.2	46.1	− 7.0
19	ο Ceti	9	14 25.63	+0.02	−0.42	2 14 25.23	− 1.46	317 37 42.70	24.48	53.22	− 3 25 20.7	19.3	− 1.0
20	κ Fornacis	9	18 5.31	+0.06	0.42	2 18 4.95	1.41	296 48 22.60	1.60	115.05	−24 15 42.5	43.8	+ 3.0
21	ι Cassiopeiæ	9	21 4.09	−0.26	0.42	2 21 3.41	4.43	27 59 31.32	9.82	31.15	+66 57 52.1	50.2	− 8.5
22	27 Arietis	9	25 30.31	−0.03	0.42	2 25 29.86	1.73	338 18 51.25	30.42	23.22	+17 16 17.7	16.6	− 3.9
23	σ Ceti	9	27 28.39	+0.04	0.42	2 27 28.01	1.44	305 23 1.25	41.82	82.07	−15 40 30.9	30.8	+ 1.5
24	128 H^1. Ceti	9	30 44.38	−0.01	−0.42	2 30 43.95	− 1.59	327 27 58.70	39.98	37.26	+ 6 25 11.2	12.2	− 1.9
25	ν Arietis	9	33 17.27	−0.04	−**0.42**	2 33 16.81	− 1.82	342 34 48.95	30.25	18.31	+21 32 20.3	21.3	− 4.1
26	118 H^1. Cassiopeiæ	9	36 28.53	−0.28	0.42	2 36 27.83	4.61	28 26 15.80	55.38	31.74	+67 24 37.2	36.4	− 6.8
27	π Ceti	9	39 29.39	+0.04	0.42	2 39 29.01	1.48	306 47 2.70	42.20	78.00	−14 16 25.4	26.3	− 1.4
28	39 Arietis	9	42 6.79	−0.06	0.42	2 42 6.31	2.00	349 52 49.60	28.52	10.40	+28 50 28.8	27.5	− 4.3
29	41 Arietis	9	44 15.22	−0.06	**0.43**	2 44 14.74	1.95	347 53 50.82	30.35	12.51	+26 51 27.9	27.2	− 4.0
30	τ^2 Eridani	9	46 37.48	+0.06	−0.41	2 46 37.13	− 1.49	299 39 23.15	2.02	102.28	−21 24 29.2	30.8	− 2.6
31	β Ursæ Minoris s.p.	9	50 53.33	+0.44	−0.41	14 50 53.36	+ 5.95	66 26 35.88	16.60	133.75	+74 33 20.1	20.0	+ 3.2
32	λ Ceti	9	54 29.79	−0.19	0.41	2 54 29.19	− 1.68	329 33 48.62	27.58	34.33	8 31 4.0	2.7	1.4
33	δ Arietis	9	6 3.70	−0.04	−**0.40**	3 6 3.25	− 1.85	340 23 56.00	34.22	20.80	+19 21 24.9	22.8	− 2.0

1901 NOVEMBER 26. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
34	33 Piscium	9	0 20.42	+0.01	−**0.39**	0 0 20.06	− 0.86	314 47 53.40	34.35	60.26	− 6 15 16.4	16.3	− 3.8
35	4 Ceti	9	2 44.21	0.00	0.37	0 2 43.84	0.90	317 57 29.40	9.78	53.96	− 3 5 34.1	34.6	4.9
36	22 Andromedæ	9	5 15.61	−0.14	0.37	0 5 15.10	− 1.67	6 33 57.15	37.08	6.95	+45 31 54.5	53.6	−17.7
37	6 B. Ursæ Minoris s. p.	9	13 44.74	+4.39	0.37	12 13 48.76	+35.86	52 46 34.15	16.80	79.00	88 14 15.9	14.3	+19.6
38	44 Piscium	9	20 24.09	−0.01	**0.33**	0 20 23.71	− 1.03	322 26 51.50	33.00	46.07	+ 1 23 55.9	56.6	− 5.6
39	12 Ceti	9	25 3.61	0.00	−**0.35**	0 25 3.24	− 1.00	316 33 13.15	55.78	56.74	− 4 29 53.1	51.2	− 3.7
40	κ Cassiopeiæ	9	27 28.87	−0.27	−0.37	0 27 28.23	− 2.80	23 25 28.38	10.68	26.08	+62 23 44.8	46.4	−18.4
41	ζ Cassiopeiæ	9	31 33.19	0.19	0.37	0 31 32.63	2.22	14 23 38.12	19.40	15.48	53 21 44.0	44.5	17.2
42	δ Andromedæ	9	34 7.04	−0.09	0.37	0 34 6.58	1.48	351 22 0.00	40.65	9.08	+30 19 41.2	41.3	−12.9
43	β Ceti	9	38 41.57	+0.04	**0.38**	0 38 41.24	0.98	302 32 12.88	54.88	93.86	−18 31 30.4	29.2	+ 0.9
44	δ Piscium	9	43 37.41	0.01	**0.38**	0 43 37.03	1.19	328 6 0.85	41.70	37.39	+ 7 3 13.9	14.1	− 6.5
45	20 Ceti	7	48 1.50	0.00	−0.37	0 48 1.13	− 1.13	319 22 30.52	10.98	51.53	− 1 40 30.5	30.6	− 3.9
46	γ Cassiopeiæ	9	50 50.75	−0.26	−0.37	0 50 50.12	− 2.85	21 13 12.22	53.00	23.43	+60 11 26.0	26.2	−16.5
47	ε Piscium	9	57 53.06	0.02	**0.41**	0 57 52.67	1.26	328 24 38.65	19.18	36.96	7 21 52.1	52.1	6.1
48	72 Piscium	9	59 56.63	0.04	0.37	0 59 56.22	1.36	335 27 53.62	34.30	27.43	14 25 16.6	16.8	7.7
49	ε Piscium	9	3 20.92	0.01	0.37	1 3 20.54	1.27	326 10 48.58	29.10	40.26	5 7 58.8	58.8	5.2
50	g Piscium	9	5 44.44	0.09	0.37	1 5 43.98	1.68	351 56 43.18	22.50	8.48	30 54 25.0	23.9	11.1
51	ζ^1 Piscium	9	8 38.33	−0.02	−0.37	1 8 37.94	1.30	328 6 19.65	59.90	37.41	+ 7 3 32.7	32.5	− 5.5

Bisections are made at II and V, except as noted below.

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
25 0 2	75.08	+6.2	+5.8
0 26	.....	...	+5.8
0 55	75.20	+6.0	+5.6
1 34	75.20	+5.7	+5.2
2 2	.....	...	+5.1
2 23	75.18	+5.3	+4.7
3 5	75.20	+5.0	+4.6
26 23 56	75.73	+0.6	+0.2
0 24	.....	...	0.0
0 46	75.81	+0.3	−0.6

2, 3, 6, 9, 10, 14, 17, 21, 26, 36, 40, 41, 46. } Bisections at III, V.
5, 37. Bisections at c_5, c_1.
12. Bisections at c_1, c_2, c_4, c_5.
20, 45. Bisections at II, VI.
31. Bisections at V, III

Notes.

1, 34 Circle A read on 48′ division.
3, 32, 36. Circle A read on 34′ division.
12. Through clouds.
24, 48. Circle A read on 28′ division.
29. Circle A read on 54′ division.
33. Circle A read on 24′ division.
43. Very unsteady; poor observation.
45. Poor.
46. First bisection doubtful.

1–33. Seeing 3.
34–51. Seeing 2–3.

Adopted Zenith Point Corrections.

	A.	B.
	″	″
1–33, from nadir	+2 34.91	34.38
34–51, from nadir	+2 35.58	*

*Interpolated from diagram.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	f Piscium	9	12 46.27	−0.01	−0.37	1 12 45.89	−1.29	324 8 53.15	33.30	43.44	+3 5 60.2	59.9	−4.3
2	α Ursæ Minoris	9	24 38.89	6.81	0.37	1 24 31.71	69.04	49 48 17.21	56.90	71.30	88 47 19.0	17.8	13.9
3	τ Andromedæ	9	34 50.03	0.13	0.37	1 34 49.53	2.08	1 7 10.22	51.08	1.22	40 5 1.9	2.4	10.7
4	φ Persei	7	37 33.84	−0.19	0.37	1 37 33.28	2.53	11 13 52.50	31.55	12.01	+50 11 54.9	53.6	−11.7
5	ε Sculptoris	9	41 4.93	+0.07	0.37	1 41 4.63	1.25	295 31 39.28	19.60	125.20	−25 32 35.3	35.4	+3.4
6	54 Ceti	9	45 41.78	−0.29	−0.37	1 45 41.12	−1.51	331 36 17.42	58.48	32.49	+10 33 35.3	36.2	−4.7
7	ξ Piscium	9	48 30.67	−0.01	**−0.37**	1 48 30.29	−1.42	323 45 11.22	53.50	44.07	+2 42 17.6	19.7	−2.8
8	ι Arietis	9	52 1.73	−0.05	0.37	1 52 1.31	1.62	338 22 58.90	39.68	23.81	+17 20 25.5	26.1	−5.8
9	υ Ceti	9	55 24.88	+0.06	0.37	1 55 24.57	1.31	299 30 43.78	23.28	105.80	−21 33 11.4	12.2	+2.6
10	α Piscium	9	57 0.38	−0.01	0.37	1 57 0.00	1.46	323 20 21.82	3.15	44.73	+2 17 27.5	28.7	−2.5
11	ι Cassiopeiæ	9	21 4.10	0.38	0.37	2 21 3.35	4.42	27 59 30.08	9.28	32.08	66 57 52.5	51.6	8.8
12	27 Arietis	9	25 30.28	−0.05	−0.37	2 25 29.86	−1.73	338 18 50.85	30.70	23.91	+17 16 17.3	17.2	−4.0
13	σ Ceti	9	27 28.32	+0.04	−0.37	2 27 27.99	−1.44	305 23 3.55	43.12	84.51	−15 40 30.4	30.9	+1.6
14	128 H¹. Ceti	9	30 44.33	−0.02	0.37	2 30 43.94	1.59	327 27 58.92	39.20	38.35	+6 25 11.0	11.3	−1.9
15	ν Arietis	9	33 17.23	0.07	0.37	2 33 16.79	1.82	342 34 48.58	29.48	18.85	21 32 20.2	21.1	4.2
16	118 H¹. Cassiopeiæ	9	36 28.57	0.39	0.37	2 36 27.81	4.62	28 26 13.58	54.30	32.67	67 24 36.6	37.3	7.1
17	μ Ceti	9	39 40.65	0.03	0.37	2 39 40.25	1.67	330 44 47.95	28.80	33.69	9 42 4.7	5.6	2.2
18	η Persei	9	43 36.31	−0.24	−0.37	2 43 35.70	−3.19	16 31 16.85	57.52	17.93	+55 29 25.2	25.9	−6.1
19	σ Arietis	9	46 7.00	−0.05	**−0.39**	2 46 6.58	−1.74	335 43 20.00	1.62	27.13	+14 40 43.2	45.0	−2.6
20	47 H. Cephei	9	53 12.64	0.83	0.37	2 53 11.44	9.21	40 3 15.58	58.25	50.72	79 1 56.4	59.2	5.1
21	γ Persei	9	57 45.26	0.22	0.37	2 57 44.67	3.06	14 9 20.92	0.82	15.25	53 7 26.6	26.6	4.7
22	Lal. 5724	9	1 2.96	0.04	0.37	3 1 2.55	1.75	333 51 13.28	54.60	29.53	12 48 34.1	35.7	1.6
23	δ Arietis	9	6 3.66	0.06	**0.33**	3 6 3.23	1.86	340 23 55.22	34.60	21.41	19 21 24.2	23.8	2.0
24	1 H¹. Camelop	9	11 26.67	−0.35	−0.37	3 11 25.95	−4.37	26 19 21.10	1.72	29.88	+65 17 41.3	42.2	−3.4
25	κ Ceti	7	14 15.24	−0.01	−0.37	3 14 14.86	−1.67	324 3 32.05	13.90	43.61	+3 0 39.0	41.0	0.0
26	α Persei	9	17 22.68	−0.19	−0.37	3 17 22.12	−2.85	10 32 45.98	25.72	11.27	+49 30 47.7	47.7	−2.9

1901 NOVEMBER 27. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
27	κ² Sculptoris	9	6 36.91	+0.07	−0.27	0 6 36.71	−0.75	292 43 44.25	26.88	142.86	−28 20 48.9	46.8	+3.4
28	6 B. Ursæ Minoris S. P.	7	13 44.36	+6.01	0.27	12 13 50.10	+35.29	52 46 34.98	16.45	79.45	+88 14 15.6	14.7	+19.8
29	44 Piscium	9	20 24.00	−0.01	**0.25**	0 20 23.72	−1.02	322 26 53.00	33.70	46.33	+1 23 56.2	56.6	−5.6
30	49 G. Ceti	9	25 29.88	+0.06	0.27	0 25 29.67	0.87	296 44 18.88	0.45	119.12	−24 19 50.6	49.4	+2.5
31	77 G. Sculptoris	9	28 51.33	+0.08	0.27	0 28 51.14	0.76	290 59 47.98	29.85	155.81	−30 4 58.2	56.7	+4.3
32	ζ Cassiopeiæ	8	31 33.08	−0.21	−0.27	0 31 32.60	−2.20	14 23 37.65	19.88	15.56	+53 21 42.7	44.5	−17.3
33	δ Andromedæ	7	34 6.90	−0.09	−0.27	0 34 6.54	−1.47	351 22 0.78	41.42	9.13	+30 19 41.2	41.4	−13.0
34	β Ceti	9	38 41.54	+0.05	**0.37**	0 38 41.32	0.97	302 32 14.70	57.00	94.28	−18 31 29.9	28.1	+1.0
35	ζ Andromedæ	9	42 10.33	−0.07	0.27	0 42 9.99	1.40	344 46 40.32	21.55	16.40	+23 44 13.3	14.3	−10.9
36	ν Andromedæ	9	44 26.56	0.14	0.27	0 44 26.15	1.79	1 35 5.20	46.98	1.72	40 32 56.5	57.8	14.4
37	μ Andromedæ	9	51 20.86	−0.13	**0.30**	0 51 20.46	1.76	359 0 29.20	9.35	1.00	+37 58 17.5	17.5	−13.5
38	α Sculptoris	9	53 54.35	+0.09	−0.27	0 53 54.17	−1.00	291 11 26.38	8.58	154.45	−29 53 18.4	16.6	+4.4
39	26 Ceti	9	58 47.84	−0.01	−0.27	0 58 47.56	−1.20	321 53 32.02	13.38	47.34	+0 50 34.2	35.2	−4.2
40	μ Cassiopeiæ	9	1 47.74	0.23	0.27	1 1 47.24	2.47	15 28 30.25	12.18	16.79	54 26 36.5	38.0	15.4
41	β Andromedæ	9	4 16.66	0.12	**0.26**	1 4 16.27	1.76	356 8 30.20	11.32	4.03	35 6 15.5	16.4	12.2
42	χ Piscium	9	6 12.83	−0.07	0.27	1 6 12.49	1.48	341 33 27.82	8.92	20.12	+20 30 57.1	58.0	8.9
43	37 Ceti	9	9 29.27	+0.02	0.27	1 9 29.02	1.18	312 36 18.98	1.00	65.58	−8 26 57.0	55.4	1.3
44	α Ursæ Minoris	9	24 39.83	−8.08	−0.27	1 24 31.48	−68.56	49 48 17.89	58.34	71.61	+88 47 19.0	18.6	−14.3
45	τ Andromedæ	9	34 49.93	−0.15	−0.27	1 34 49.51	−2.08	1 7 10.90	52.00	1.23	+40 5 1.7	2.4	−10.9
46	φ Persei	9	37 33.80	−0.21	0.27	1 37 33.32	2.52	11 13 52.92	32.38	12.06	+50 11 54.5	53.5	−11.9
47	ε Sculptoris	9	41 4.86	+0.08	0.27	1 41 4.67	1.24	295 31 39.38	21.32	125.81	−25 32 36.7	35.3	+3.6
48	54 Ceti	9	45 41.69	−0.32	0.27	1 45 41.10	1.50	331 36 17.72	59.25	32.65	+10 33 34.6	35.8	−4.7
49	ξ Piscium	9	48 30.58	0.01	**0.28**	1 48 30.30	1.42	323 45 12.38	54.20	44.28	2 42 17.6	19.1	2.9
50	ι Arietis	9	52 1.66	−0.06	−0.27	1 52 1.33	−1.62	338 23 0.40	42.38	23.93	+17 20 25.9	27.6	−5.8
51	4 Ursæ Minoris S. P.	9	9 5.62	+0.85	−0.27	14 9 6.20	+7.26	62 59 52.05	32.48	118.47	+78 0 19.4	19.6	+8.7
52	67 Ceti	6	12 7.40	+0.02	0.27	2 12 7.15	−1.42	314 10 47.22	29.18	62.12	−6 52 25.2	23.7	−0.2
53	ξ Arietis	9	19 35.68	−0.04	0.27	2 19 35.37	1.62	331 12 48.18	29.28	33.20	+10 10 4.5	5.2	3.1
54	ξ² Ceti	9	22 58.71	−0.03	**0.25**	2 22 58.41	−1.60	329 4 6.38	45.12	36.22	8 1 19.7	18.1	−2.6
55	5 Ursæ Minoris S. P.	9	27 36.96	+0.75	0.27	14 27 37.44	+6.43	64 52 12.18	53.50	128.74	76 7 49.0	48.9	+6.6
56	ν Ceti	9	30 45.66	−0.02	−0.27	2 30 45.37	−1.58	326 12 48.62	30.35	40.46	+5 9 57.7	59.1	−1.8

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
26 1 15	75.84	0.0	−0.6
2 3	75.82	−0.1	−0.6
2 30	75.81	−0.3	−0.8
3 16	75.82	−0.5	−0.9
27 0 20	76.14	+0.5	−0.2
0 56	76.14	0.0	−0.6
1 33	.....	...	−0.7
2 10	76.15	−0.5	−0.8

Bisections are made at II and V, except as noted below.

2, 44.	Bisections at c_1, c_2, c_4, c_5.
3, 4, 11, 16, 18, 20, 21, 24, 26, 31, 32, 33, 36, 40, 45, 46.	Bisections at III, V.
25.	Bisections at IV, V.
28.	Bisections at c_5, c_1.
51, 55.	Bisections at V, III.
52.	Bisections at IV, VI.

Notes.

4, 46. Circle A read on 14′ division.
14. Circle A read on 28′ division.
23. Circle A read on 24′ division.
45. Observed head north.

1–26. Seeing 2–3.
27–56. Seeing 3.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–26, from nadir.	+2 35.58	*
27–56, from nadir.	+2 34.66	54.12

* Interpolated from diagram.

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T - m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	δ Ceti	9	34 29.32	0.00	**−0.25**	2 34 29.05	− 1.55	320 57 23.15	3.05	49.05	− 0 5 36.4	36.8	− 0.7
2	μ Arietis	9	36 52.43	−0.07	0.27	2 36 52.09	1.80	340 38 14.08	54.60	21.25	+19 35 42.4	42.5	3.7
3	μ Ceti	9	39 40.57	0.04	0.27	2 39 40.26	1.67	330 44 50.30	30.02	33.88	9 42 5.9	5.3	2.1
4	η Persei	9	43 36.27	0.28	0.27	2 43 35.72	3.19	16 31 18.65	0.02	18.03	55 29 26.2	27.1	6.4
5	σ Arietis	9	46 6.89	0.05	**0.28**	2 46 6.57	1.74	335 43 22.28	3.65	27.28	14 40 44.5	45.5	2.6
6	α Ceti	9	57 11.28	−0.02	**−0.28**	2 57 10.99	− 1.65	324 45 13.82	55.62	42.77	+ 3 42 20.6	22.0	− 0.6
7	α Persei	9	17 22.57	−0.23	−0.27	3 17 22.07	− 2.85	10 32 48.05	27.50	11.34	+49 30 48.9	47.9	− 3.1
8	2 H. Camelop.	9	21 11.89	0.33	0.27	3 21 11.29	3.65	20 37 46.38	26.92	22.88	59 35 58.7	58.8	2.7
9	s Tauri	9	25 5.06	−0.04	0.27	3 25 4.75	1.77	332 2 44.20	24.88	32.13	+11 0 1.8	1.9	− 0.3
10	ε Eridani	9	28 20.65	+0.03	**0.29**	3 28 20.41	1.62	311 15 55.05	35.58	68.94	− 9 47 24.3	24.2	+ 1.7
11	10 Tauri	9	31 54.19	0.00	−0.27	3 31 53.92	− 1.68	321 8 27.78	6.48	48.78	+ 0 5 28.5	26.9	+ 0.8
12	α Ursæ Minoris S. P.	9	24 26.06	+5.58	**[+0.69]**	1 24	....	52 13 29.09	11.66	79.52	+88 47 20.6	18.5	−14.5
13	η Bootis	9	50 0.59	−0.05	**[−0.31]**	13 50	....	339 56	.....	.....	+18 53	....	....
14	α Bootis	9	11 10.85	−0.05	**[−0.30]**	14 11	....	340 44	.....	.....	+19 42	....	....

1901 NOVEMBER 30. CLAMP WEST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T - m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
15	12 Canum Venat.	9	51 25.70	−0.06	**[+0.11]**	12 51	....	359 53	.....	.....	+38 51	....	....
16	ε Virginis	9	57 17.35	−0.02	**[0.11]**	12 57	....	332 30	.....	.....	11 29	....	....
17	α Ursæ Minoris S. P.	9	24 25.83	+3.83	**[+0.71]**	1 24	....	52 13 31.04	14.62	77.29	+88 47 20.8	19.4	−15.5

1901 DECEMBER 1. CLAMP WEST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T - m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
18	12 Canum Venat.	9	51 25.42	+0.07	**[+0.29]**	12 51	....	359 53	.....	.....	+38 51	....	....
19	α Ursæ Minoris S. P.	8	24 32.89	−3.64	**[+0.37]**	1 24	....	52 13 43.47	4.22	75.68	+88 47 19.2	17.3	−15.7

1901 DECEMBER 2. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T - m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
20	6 B. Ursæ Minoris S. P.	7	13 53.73	−3.06	+0.79	12 13 51.46	+31.97	52 46 40.12	7.85	75.13	+88 14 14.5	13.4	+21.1
21	44 Piscium	9	20 22.94	+0.01	**0.74**	0 20 23.73	− 0.97	322 26 49.32	16.62	43.81	+ 1 23 55.3	56.2	− 5.3
22	12 Ceti	9	25 2.46	0.00	**0.74**	0 25 3.23	− 0.94	316 33 11.00	38.50	53.95	− 4 29 53.1	52.1	− 3.2
23	κ Draconis S. P	9	29 14.98	−0.26	0.76	12 29 15.48	+ 2.73	70 40 2.78	28.42	161.70	+70 19 25.3	26.4	+18.1
24	ζ Cassiopeiæ	9	31 31.67	+0.13	0.75	0 31 32.55	− 2.10	14 23 39.45	8.15	14.71	53 21 43.9	46.1	−18.0
25	δ Andromedæ	9	34 5.69	+0.06	**+0.81**	0 34 6.50	− 1.42	351 22 0.55	27.35	8.63	+30 19 41.8	42.1	−13.2
26	21 Cassiopeiæ	9	39 13.68	+0.34	+0.74	0 39 14.76	− 4.62	35 28 57.25	22.70	40.77	+74 27 27.6	26.6	−19.5
27	ζ Andromedæ	9	42 9.08	0.05	**0.76**	0 42 9.86	1.35	344 46 38.78	5.98	15.50	23 44 13.0	13.8	11.0
28	γ Cassiopeiæ	9	50 49.11	0.17	0.72	0 50 50.00	2.71	21 13 14.42	41.82	22.24	60 11 26.4	27.3	17.5
29	43 H. Cephei	8	55 31.24	+1.26	0.71	0 55 33.21	16.98	46 45 20.58	48.22	60.79	+85 44 11.2	12.2	18.2
30	η Ceti	7	3 40.01	−0.01	**0.69**	1 3 40.69	1.09	310 21 11.30	37.92	67.08	−10 42 5.8	5.7	0.2
31	f Piscium	9	12 45.14	+0.01	**0.70**	1 12 45.83	1.25	324 8 50.42	17.88	41.24	+ 3 5 59.0	60.0	3.9
32	θ Ceti	9	19 8.03	−0.01	**+0.64**	1 19 8.68	− 1.18	312 21 52.45	.....	62.52	− 8 41 20.2	....	− 0.3

1901 DECEMBER 3. CLAMP WEST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T - m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
33	ε Virginis	9	57 16.05	+0.02	**[+1.46]**	12 57	....	332 32	.....	.....	+11 29	....	....
34	α Ursæ Minoris S. P.	6	24 29.42	−3.50	**[−2.20]**	1 24	....	52 13 37.28	56.35	78.32	+88 47 21.3	19.8	−16.2

1901 DECEMBER 4. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T - m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
35	6 B. Ursæ Minoris S. P.	9	13 55.08	−2.89	+1.55	12 13 53.74	+30.70	52 46 45.18	4.12	80.10	+88 14 13.5	12.9	+21.4
36	44 Piscium	9	20 22.10	+0.01	**1.56**	0 20 23.66	− 0.95	322 27 0.80	19.50	46.73	+ 1 23 54.8	55.5	− 5.2
37	12 Ceti	9	25 1.68	0.00	**+1.50**	0 25 3.23	− 0.92	316 33 23.05	43.25	57.55	− 4 29 53.7	51.6	− 3.1

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
27 2 34	.....	....	− 1.1
3 0	76.16	− 0.8	− 1.2
3 30	76.17	− 0.8	− 1.3
13 20	76.39	− 4.5	− 4.8
30 13 19	75.75	+ 0.2	+ 0.5
1 13 19	75.54	+ 5.2	+ 5.2
2 0 10	75.40	+12.8	+12.1
0 53	75.39	+12.5	+11.7
1 25	75.39	+12.1	+11.6
3 13 20	75.71	− 2.6	− 3.2
4 0 11	75.95	− 1.8	− 3.0

Bisections are made at II and V, except as noted below.

4, 7, 8, 24, 25, 26, 28.	Bisections at III, V.
12, 17, 19.	Bisections at c_5, c_4, c_2, c_1.
20, 35.	Bisections at c_5, c_1.
23.	Bisections at V, III.
29.	Bisections at c_1, c_5.
30.	Bisections at IV, VI.
32.	Bisection at II.
34.	Bisections at c_4, c_3, c_2.

Notes.

10.	Circle A read on 16′ division.
19.	Observation poor; faint; unsteady; clouds.
20, 32.	Clouds.
23.	Circle A read on 38′ division.
25.	Circle A read on 20′ division.
34.	Very poor observation; clouds.

1–11.	Seeing 3.
12–17.	Seeing 5.
20–32.	Seeing 4.
35–37.	Seeing 3.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–11, from nadir	+2	34.66	54.12
12, from nadir	2	35.70	54.86
17, from nadir	2	35.72	53.22
19, from nadir	2	26.50	7.38
20–32, from nadir	2	34.95	8.32
34, from nadir	2	28.12	10.42
35–37, from nadir	+2	25.88	*

*Interpolated from diagram.

No.	Name.	Thds.	Mean Thread.	c_0' sec δ + n tan δ.	$\Delta T+m$.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	κ Draconis s. p.	9	29 14.21	−0.23	+1.55	12 29 15.53	+ 2.61	70 40 0.40	17.65	172.40	+70 19 26.0	27.1	+18.6
2	ζ Cassiopeiæ	9	31 30.79	+0.11	1.55	0 31 32.45	− 2.06	14 23 49.42	8.42	15.69	53 21 45.8	46.8	−18.2
3	δ Andromedæ	9	34 4.88	0.05	1.60	0 34 6.49	1.39	351 22 9.12	28.00	9.21	30 19 40.5	41.5	13.3
4	21 Cassiopeiæ	9	39 12.79	0.28	1.56	0 39 14.63	4.50	35 29 3.88	22.30	43.49	74 27 27.9	28.3	19.8
5	ζ Andromedæ	9	42 8.29	0.04	1.54	0 42 9.89	1.33	344 46 48.65	7.38	16.54	23 44 12.7	13.6	11.0
6	γ Cassiopeiæ	9	50 48.26	+0.13	+1.56	0 50 49.95	− 2.66	21 13 22.22	41.08	23.72	+60 11 26.6	27.5	−17.8
7	43 H. Cephei	9	55 30.61	+0.93	+1.56	0 55 33.10	−16.56	46 45 26.22	46.18	64.83	+85 44 10.8	12.8	−18.7
8	η Ceti	9	3 39.16	−0.01	1.53	1 3 40.71	1.08	310 21 24.10	42.88	71.53	−10 42 6.6	5.7	0.0
9	*f* Piscium	9	12 44.25	+0.01	1.58	1 12 45.83	1.24	324 9 2.30	21.02	43.97	+ 3 5 59.1	60.0	− 3.8
10	θ Ceti	9	19 7.06	0.00	1.59	1 19 8.63	1.17	312 22 5.32	24.20	66.68	− 8 41 20.5	19.5	0.1
11	α Ursæ Minoris	5	24 23.00	+2.79	1.57	1 24 27.36	63.72	49 48 28.40	44.69	72.21	+88 47 21.0	19.7	16.3
12	40 Cassiopeiæ	9	30 43.52	+0.18	+1.57	1 30 45.27	− 4.95	33 34 21.52	39.68	40.54	+72 32 42.6	43.0	−15.5
13	ν Piscium	9	36 19.59	+0.01	+1.60	1 36 21.17	− 1.37	326 2 33.85	52.75	41.02	+ 4 59 33.6	34.8	− 3.5
14	ε Sculptoris	9	41 3.04	−0.02	1.57	1 41 4.59	1.18	295 31 50.05	8.25	126.90	−25 32 35.9	35.5	+ 4.8
15	ζ Ceti	9	46 37.09	0.00	1.58	1 46 38.67	1.29	310 14 22.55	41.38	71.95	−10 49 8.6	7.5	+ 1.2
16	β Arietis	9	49 13.49	+0.02	1.57	1 49 15.09	1.63	341 22 30.25	48.85	20.53	+20 19 50.4	51.4	− 6.6
17	50 Cassiopeiæ	9	55 6.67	0.14	1.58	1 55 8.39	5.12	32 58 44.28	0.50	39.69	71 57 4.6	3.1	13.5
18	γ Trianguli	9	11 29.52	+0.03	+1.59	2 11 31.13	− 2.00	354 26 11.25	29.62	5.91	+33 23 45.9	46.8	− 7.8
19	ι Cassiopeiæ	9	21 1.72	+0.09	+1.59	2 21 3.40	− 4.32	27 59 41.22	57.88	32.55	+66 57 54.4	53.5	−10.8
20	5 Ursæ Minoris s. p.	9	27 36.03	−0.14	1.60	14 27 37.49	+ 6.13	64 52 22.10	41.70	129.90	+76 7 46.7	44.9	+ 9.1
21	δ Ceti	9	34 27.47	0.00	1.59	2 34 29.07	− 1.54	320 57 32.32	48.55	49.48	− 0 5 36.4	37.6	− 0.1
22	θ Persei	9	37 31.22	+0.04	1.60	2 37 32.86	2.70	9 51 7.68	23.55	10.66	+48 48 59.1	57.4	− 7.7
23	π Ceti	9	39 27.41	0.00	1.52	2 39 29.01	1.46	306 47 13.78	30.98	81.45	−14 16 26.8	27.1	+ 2.9
24	41 Arietis	9	44 13.09	+0.02	+1.63	2 44 14.71	− 1.96	347 54 1.82	19.40	13.06	+26 51 29.4	29.6	− 4.4
25	τ Persei	9	47 19.65	+0.04	+1.60	2 47 21.29	− 2.96	13 23 54.15	12.02	14.61	+52 21 49.5	49.9	− 7.3
26	47 H. Cephei	9	53 9.84	0.14	1.60	2 53 11.58	9.07	40 3 28.42	46.48	51.45	79 2 0.3	0.9	7.6
27	ρ Persei	9	58 54.29	0.02	1.63	2 58 55.91	2.32	359 30 4.12	20.55	0.49	38 27 44.1	43.4	4.9
28	β Persei	9	1 48.12	0.02	1.61	3 1 49.75	2.42	1 37 4.12	21.20	1.77	40 34 46.6	46.3	4.9
29	48 H. Cephei	9	7 58.71	0.10	1.61	3 8 0.42	8.07	38 24 7.02	25.18	48.53	77 22 36.0	36.8	6.1
30	α Persei	9	17 20.62	+0.02	+1.62	3 17 22.26	− 2.88	10 32 56.88	13.85	11.44	+49 30 49.0	48.7	− 4.3
31	ο Tauri	9	19 32.40	+0.01	+1.65	3 19 34.03	− 1.77	329 43 59.05	15.45	35.65	+ 8 41 4.1	3.3	+ 0.1
32	ξ Tauri	9	21 51.56	0.01	1.61	3 21 53.19	1.77	330 26 23.32	40.25	34.66	9 23 29.4	29.1	+ 0.1
33	*f* Tauri	9	25 27.88	+0.01	1.61	3 25 29.51	1.82	333 38 53.60	10.95	30.27	+12 36 4.0	4.2	− 0.1
34	ε Eridani	9	28 18.80	0.00	1.61	3 28 20.42	1.64	311 16 3.52	20.78	69.58	− 9 47 25.2	25.2	+ 2.9
35	11 H^1. Camelop	7	33 41.33	+0.03	1.62	3 33 42.98	4.09	23 55 51.70	9.60	27.23	+62 53 59.8	60.2	− 3.3
36	δ Persei	6	35 57.80	+0.02	+1.63	3 35 59.45	− 2.80	8 30 40.48	56.45	9.21	+47 28 30.6	29.0	− 2.4
37	5 H. Camelop	9	40 4.38	+0.04	+1.63	3 40 6.05	− 5.64	32 3 32.68	51.25	38.42	+71 1 51.7	53.0	− 2.6
38	τ^6 Eridani	9	42 37.97	0.00	1.63	3 42 39.60	− 1.65	297 31 51.38	8.22	116.81	−23 32 24.6	25.0	− 4.7
39	ζ Ursæ Minoris s. p.	9	47 23.56	−0.06	1.63	15 47 25.13	+ 7.86	62 54 32.52	52.68	119.46	+78 5 46.7	44.0	+ 0.7
40	ε Persei	9	51 17.30	+0.01	1.63	3 51 18.94	− 2.48	0 45 56.40	13.30	0.86	+39 43 38.0	37.7	− 0.9
41	γ Eridani	9	53 27.48	0.00	1.62	3 53 29.11	1.68	307 16 22.10	39.80	80.22	−13 47 17.3	16.8	+ 3.6
42	ν Tauri	9	57 56.71	0.00	+1.64	3 57 58.34	− 1.81	326 46 1.78	18.75	40.08	+ 5 43 2.4	2.3	+ 1.9
43	γ Tauri	9	14 13.17	0.00	+1.67	4 14 14.82	− 1.93	336 26 11.50	29.08	26.69	+15 23 25.5	26.1	+ 2.0
44	η Ursæ Minoris s. p.	9	20 13.43	−0.01	+1.65	16 20 15.07	+ 6.58	65 1 10.25	27.28	131.18	+75 58 57.3	57.6	− 3.1

1901 DECEMBER 5. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

No.	Name.	Thds.	Mean Thread.	c_0' sec δ + n tan δ.	$\Delta T+m$.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
45	ζ Andromedæ	9	42 8.13	+0.03	+1.70	0 42 9.87	− 1.32	344 46 47.72	6.30	16.73	+23 44 12.6	13.2	−11.0
46	B. D. +37° 151	9	45 49.38	0.04	1.70	0 45 51.12	1.62	358 33 9.02	28.08	1.51	37 30 49.0	50.2	14.4
47	γ Cassiopeiæ	9	50 48.16	0.09	1.71	0 50 49.96	2.64	21 13 20.90	40.38	23.99	60 11 26.6	27.9	17.9
48	43 H. Cephei	9	55 30.34	+0.64	1.70	0 55 32.68	16.35	46 45 25.55	45.55	65.60	+85 44 11.9	13.7	−18.9
49	η Ceti	9	3 39.00	0.00	1.67	1 3 40.69	1.07	310 21 23.82	42.12	72.38	−10 42 6.7	6.6	+ 0.1
50	B. D.+36° 201	9	5 39.73	+0.04	+1.69	1 5 41.46	− 1.74	358 14 43.22	2.15	1.85	+37 12 22.9	23.9	13.1
51	B. D.+40° 249	9	7 44.64	+0.04	+1.69	1 7 46.37	− 1.85	1 45 27.98	47.32	1.94	+40 43 11.7	12.8	−13.6
52	*f* Piscium	9	12 44.10	+0.01	1.72	1 12 45.80	1.23	324 9 1.82	19.92	44.51	+ 3 5 59.1	59.0	− 3.7
53	θ Ceti	9	19 6.98	0.00	1.66	1 19 8.66	1.16	312 22 4.65	24.45	67.48	− 8 41 21.0	19.4	0.0
54	α Ursæ Minoris	6	24 23.35	+1.94	1.68	1 24 26.97	63.02	49 48 26.58	44.06	73.07	+88 47 21.4	20.3	−16.5
55	40 Cassiopeiæ	9	30 43.46	0.13	1.67	1 30 45.26	4.91	33 34 19.02	38.15	41.03	72 32 41.6	42.6	15.7
56	ν Piscium	9	36 19.48	+0.01	+1.70	1 36 21.17	− 1.36	326 2 33.65	52.28	41.53	+ 4 59 33.9	34.4	− 3.4

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
4 0 36	75.97	−2.2	−3.1
1 14	76.00	−2.5	−3.2
2 9	76.06	−2.7	−3.6
2 46	76.07	−2.8	−3.7
3 30	76.09	−3.0	−4.0
4 17	76.09	−3.3	−4.4
5 0 41	76.23	−4.2	−5.3
1 30	76.21	−5.0	−5.8

Bisections are made at II and V, except as noted below.

1, 20, 39, 44. Bisections at V, III.
2, 4, 6, 7, 10, 12, 17, 19, 22, 25, 26, 28, 29, 30, 37, 38, 40, 47, 48, 51, 52, 55. Bisections at III, V.
11, 54. Bisections at c_1, c_2, c_4, c_5.
35. Bisections at IV, V.
36. Bisections at IV, VI.

Notes.

2. Circle A read on 24′ division.
31. Circle A read on 44′ division.
35. Circle A read on 56′ division.
40. Circle A read on 46′ division.
46, 50. Observed head north.
51. Observed head south.

1–32. 45–56. Seeing 3.
33–44. Seeing 3–4.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–44, from nadir	+2 25.88	*
45–56, from nadir	+2 26.90	8.59

*Interpolated from diagram.

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n\tan\delta$.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	ε Sculptoris	9	41 2.93	-0.01	+1.68	1 41 4.60	− 1.18	295 31 49.25	8.50	128.47	−25 32 37.3	36.3	+ 5.0
2	ζ Ceti	9	46 36.98	0.00	**1.68**	1 46 38.65	1.28	310 14 21.18	40.50	72.82	−10 49 9.8	8.7	+ 1.3
3	β Arietis	9	49 13.44	+0.02	**1.61**	1 49 15.13	1.62	341 22 29.62	48.12	20.79	+20 19 50.5	51.0	− 6.6
4	50 Cassiopeiæ	9	55 6.60	+0.10	1.67	1 55 8.37	5.09	32 58 42.12	59.05	40.19	+71 57 3.9	2.6	−13.7
5	μ Fornacis	9	8 35.21	−0.01	1.66	2 8 36.86	1.30	289 54 0.15	19.52	169.10	−31 11 7.0	5.9	+ 6.4
6	γ Trianguli	9	11 29.39	+0.02	+**1.73**	2 11 31.07	− 2.00	354 26 11.02	29.02	5.98	+33 23 46.6	46.7	− 7.9
7	κ Fornacis	9	18 3.21	0.00	+1.66	2 18 4.87	− 1.35	296 48 34.18	52.30	121.77	−24 15 45.7	45.8	+ 5.0
8	ι Cassiopeiæ	9	21 1.48	+0.07	1.66	2 21 3.21	− 4.31	27 59 40.78	57.22	32.98	+66 57 55.4	53.7	−11.0
9	5 Ursæ Minoris s. p.	9	27 36.10	−0.11	1.67	14 27 37.66	+ 6.08	64 52 19.95	39.62	131.60	+76 7 46.2	44.9	+ 9.4
10	δ Ceti	9	34 27.36	+0.01	**1.69**	2 34 29.04	− 1.54	320 57 31.58	48.70	50.14	− 0 5 36.8	37.8	0.0
11	θ Persei	9	37 31.08	+0.03	1.67	2 37 32.78	2.70	9 51 7.15	23.08	10.81	+48 48 59.7	57.4	− 7.9
12	π Ceti	9	39 27.31	0.00	+**1.62**	2 39 28.98	− 1.46	306 47 13.22	32.30	82.54	−14 16 27.5	26.6	+ 3.1
13	τ Persei	9	47 19.51	+0.04	+1.68	2 47 21.23	− 2.96	13 23 53.02	11.95	14.81	+52 21 49.6	50.3	− 7.4
14	47 H. Cephei	9	53 9.48	0.12	1.68	2 53 11.28	9.05	40 3 28.12	46.22	52.16	79 2 1.7	1.6	7.9
15	ρ Persei	9	58 54.25	0.02	**1.67**	2 58 55.95	2.32	359 30 2.65	19.78	0.49	38 27 43.7	42.9	5.0
16	β Persei	9	1 47.99	0.02	1.68	3 1 49.69	2.42	1 37 3.65	21.60	1.79	40 34 47.2	47.0	5.0
17	48 H. Cephei	9	7 58.44	+0.09	1.68	3 8 0.21	− 8.06	38 24 5.28	21.35	49.19	77 22 36.0	33.8	− 6.4
18	1 H. Ursæ Minoris s.p.	9	13 25.23	−0.05	+1.68	15 13 26.86	+ 3.93	73 15 51.50	8.28	204.14	+67 43 2.2	3.9	+ 3.8
19	α Persei	9	17 20.43	+0.03	+1.68	3 17 22.14	− 2.88	10 32 57.18	14.28	11.60	+49 30 50.5	49.4	− 4.5
20	ο Tauri	9	19 32.39	0.01	**1.66**	3 19 34.09	1.77	329 43 59.60	16.65	36.14	8 41 5.2	4.2	+ 0.1
21	ξ Tauri	9	21 51.46	0.01	**1.72**	3 21 53.16	1.78	330 26 23.50	40.60	35.13	9 23 30.1	29.1	+ 0.2
22	*f* Tauri	9	25 27.79	+0.01	**1.70**	3 25 29.49	1.82	333 38 53.72	11.45	30.69	+12 36 4.7	4.4	− 0.1
23	ε Eridani	9	28 18.74	0.00	**1.67**	3 28 20.43	1.64	311 16 3.80	22.18	70.52	− 9 47 24.9	24.6	+ 3.1
24	11 H$^{\text{I}}$. Camelop	9	33 41.07	+0.04	+1.69	3 33 42.80	− 4.09	23 55 51.48	9.70	27.60	+62 54 0.8	0.8	− 3.5
25	δ Persei	9	35 57.68	+0.02	+1.69	3 35 59.39	− 2.81	8 30 39.75	56.68	9.34	+47 28 30.8	29.6	− 2.6
26	5 H. Camelop	9	40 4.19	+0.05	1.69	3 40 5.93	5.65	32 3 32.25	50.62	38.94	+71 1 52.8	53.0	− 2.9
27	τ^6 Eridani	9	42 37.87	0.00	1.70	3 42 39.57	− 1.65	297 31 51.58	8.55	118.40	−23 32 24.9	26.2	+ 4.9
28	ζ Ursæ Minoris s. p.	9	47 23.54	−0.08	1.71	15 47 25.17	+ 7.85	62 54 32.08	51.12	121.11	+78 5 44.5	43.9	+ 1.0
29	ε Persei	9	51 17.22	+0.02	1.71	3 51 18.95	− 2.49	0 45 55.35	13.78	0.87	+39 43 38.0	38.2	− 1.0
30	γ Eridani	9	53 27.41	0.00	+**1.69**	3 53 29.12	− 1.68	307 16 23.42	40.85	81.34	−13 47 16.1	16.8	+ 3.8
31	ν Tauri	9	57 56.61	+0.01	+**1.73**	3 57 58.34	− 1.81	326 46 2.05	19.62	40.64	+ 5 43 3.2	2.6	+ 2.0
32	γ Tauri	9	14 13.10	0.01	**1.74**	4 14 14.84	1.94	336 26 11.70	30.12	27.06	15 23 26.3	26.7	2.0
33	B. D.+35° 860	9	17 8.97	+0.01	1.73	4 17 10.71	− 2.37	356 42 43.78	3.08	3.53	35 40 21.8	23.1	+ 1.3
34	η Ursæ Minoris s. p.	9	20 13.68	−0.05	1.73	16 20 15.36	+ 6.59	65 1 8.45	27.62	133.00	75 58 56.3	55.5	− 2.7
35	B. D.+39° 1013	9	24 42.87	0.00	+1.73	4 24 44.60	− 2.51	0 50 6.62	24.70	0.95	+39 47 49.4	49.2	+ 1.8
UPDEGRAFF, OBSERVER.						1901 DECEMBER 6.		CLAMP WEST.				HAMMOND, ASSISTANT.	
36	6 B. Ursæ Minoris s. p.	9	13 55.82	−4.48	+1.76	12 13 53.10	+29.51	52 46 43.05	2.38	81.20	+88 14 13.4	13.5	+21.7
37	44 Piscium	9	20 21.91	+0.02	**1.72**	0 20 23.68	− 0.93	322 27 0.30	19.62	47.37	+ 1 23 54.8	54.9	− 5.0
38	12 Ceti	9	25 1.40	0.00	**1.76**	0 25 3.16	− 0.90	316 33 23.28	43.12	58.33	− 4 29 53.2	52.6	− 2.9
39	κ Draconis s. p	9	29 14.50	−0.38	1.75	12 29 15.87	+ 2.48	70 40 0.65	16.90	174.70	+70 19 22.5	25.6	+19.1
40	ζ Cassiopeiæ	9	31 30.50	+0.18	1.75	0 31 32.43	− 2.02	14 23 48.00	7.82	15.90	53 21 45.6	46.3	−18.3
41	δ Andromedæ	9	34 4.68	+0.08	+**1.75**	0 34 6.50	− 1.37	351 22 9.52	28.22	9.33	+30 19 41.8	41.5	−13.3
42	21 Cassiopeiæ	9	39 12.34	+0.47	+1.74	0 39 14.55	− 4.39	35 29 2.98	21.28	44.09	+74 27 28.6	27.7	−20.2
43	ζ Andromedæ	9	42 8.04	0.06	**1.75**	0 42 9.83	1.31	344 46 48.80	8.12	16.76	23 44 13.6	14.0	11.0
44	B. D. +37° 151	9	45 49.29	0.10	1.73	0 45 51.12	1.60	358 33 8.72	28.22	1.52	37 30 48.8	49.3	14.4
45	γ Cassiopeiæ	7	50 47.94	0.22	1.72	0 50 49.88	2.61	21 13 20.68	41.12	24.04	60 11 26.3	27.7	18.0
46	43 H. Cephei	9	55 28.99	+1.69	+1.72	0 55 32.40	−16.13	46 45 26.18	45.70	65.72	+85 44 12.5	13.0	−19.1
47	η Ceti	.	.. ..	....	....	1 3	.....	310 21 24.65	43.80	72.53	−10 42 6.3	6.1	+ 0.2
48	B. D. +36° 201	.	.. ..	....	....	1 5	.....	358 14 42.60	2.30	1.85	+37 12 22.3	23.0	−13.1
49	B. D. +40° 249	.	.. ..	....	....	1 7	.....	1 45 28.30	49.72	1.94	40 43 11.5	14.2	13.7
50	*f* Piscium	9	12 44.07	+0.02	+**1.73**	1 12 45.80	− 1.22	324 9 2.78	21.52	44.57	3 5 59.6	59.6	3.6
51	B. D. +42° 288	9	16 29.59	+0.12	1.71	1 16 31.42	1.98	4 6 44.35	3.70	4.49	+43 4 30.0	30.8	−13.6
52	θ Ceti	9	19 6.93	0.00	**1.70**	1 19 8.64	1.15	312 22 4.88	25.80	67.57	− 8 41 21.3	19.1	+ 0.1
53	α Ursæ Minoris	5	24 17.50	+5.58	+1.71	1 24 24.79	−62.37	49 48 28.23	45.32	73.12	+88 47 22.4	20.9	−16.8

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	cm.	°	°
5	2	11	76.24	−5.0	−6.3
	2	57	76.24	−5.5	−6.6
	3	45	76.28	−6.0	−7.0
	4	23	76.28	−6.0	−7.3
6	0	4	76.56	−4.0	−4.3
	0	36	.....	...	−4.6
	1	0	76.56	−4.3	−4.8

Bisections are made at II and V, except as noted below.

4, 8, 11, 13, 14, 16, 17, 19, 24, 25, 26, 29, 35, 40, 42, 44, 45, 46, 48.	Bisections at III, V.
9, 18, 28, 34, 39.	Bisections at V, III.
23.	Bisections at II, VI.
36.	Bisections at c_5, c_1.
53.	Bisections at c_1, c_2, c_4, c_5.

Notes.

13, 40.	Circle A read on 24′ division.
18.	Circle A read on 16′ division.
20.	Circle A read on 44′ division.
24.	Circle A read on 56′ division.
29.	Circle A read on 46′ division.
33, 49, 51.	Observed head north.
35, 44, 48.	Observed head south.
53.	Bisection at c_2 doubtful.

1–52.	Seeing 3.
53.	Seeing 3-4.

Adopted Zenith Point Corrections.

	′	A.	B.
		″	″
1–35, from nadir	+2	26.90	8.59
36–53, from nadir		*	7.59

* Interpolated from diagram.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ − n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
									A.	B.		A.	B.	
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	40	Cassiopeiæ	9	30 43.22	+0.37	+1.71	1 30 45.30	−4.88	33 34 19.68	39.32	41.05	+72 32 41.8	42.8	−15.9
2	ν	Piscium	9	36 19.46	+0.02	**1.70**	1 36 21.18	1.35	326 2 33.78	53.58	41.54	+ 4 59 33.5	34.7	−3.3
3	ε	Sculptoris	9	41 2.93	−0.04	1.70	1 41 4.59	1.17	295 31 49.50	9.10	128.50	−25 32 37.6	36.7	+5.1
4	ζ	Ceti	9	46 36.94	−0.01	**1.72**	1 46 38.63	1.27	310 14 22.22	42.10	72.85	−10 49 9.4	8.1	+1.4
5	β	Arietis	9	49 13.33	+0.05	**1.[illegible]**	1 49 15.09	1.61	341 22 30.35	49.70	20.79	+20 19 50.6	51.5	−6.6
6	50	Cassiopeiæ	9	55 6.29	+0.34	+1.71	1 55 8.34	−5.06	32 58 43.52	0.85	40.20	+71 57 4.6	3.5	−13.9
7	μ	Fornacis	9	8 35.14	−0.04	+1.71	2 8 36.81	−1.29	289 54 0.92	21.22	169.13	−31 11 7.0	5.2	+6.6
8	κ	Fornacis	9	18 3.14	−0.03	1.71	2 18 4.82	1.34	296 48 35.10	53.35	121.77	−24 15 45.6	45.7	+5.2
9	ι	Cassiopeiæ	9	21 1.31	+0.24	1.71	2 21 3.26	−4.29	27 59 41.12	58.72	32.98	+66 57 54.9	54.2	−11.2
10	5	Ursæ Minoris s. p.	9	27 36.39	−0.41	1.72	14 27 37.70	+6.03	64 52 21.15	41.15	131.60	+76 7 45.9	44.4	+9.8
11	δ	Ceti....	9	34 27.26	+0.01	**1.79**	2 34 29.00	−1.54	320 57 32.88	50.40	50.13	− 0 5 36.5	37.1	+0.1
12	θ	Persei	9	37 30.91	+0.12	+1.73	2 37 32.76	−2.70	9 51 8.18	24.70	10.80	+48 48 59.7	58.1	−8.1
13	π	Ceti	9	39 27.27	−0.01	**+1.67**	2 39 28.99	−1.46	306 47 13.72	33.35	82.54	−14 16 28.0	26.5	+3.3
14	41	Arietis	9	44 12.99	+0.06	**1.69**	2 44 14.78	1.96	347 54 0.92	20.10	13.23	+26 51 28.3	29.5	−4.5
15	τ	Persei	9	47 19.27	0.13	1.73	2 47 21.13	2.96	13 23 54.42	12.75	14.81	52 21 49.9	50.1	7.6
16	47	H. Cephei	9	53 9.06	0.48	1.74	2 53 11.28	9.02	40 3 28.50	47.45	52.16	79 2 1.0	1.9	8.2
17	ρ	Persei	9	58 54.08	0.08	**1.78**	2 58 55.90	2.32	359 30 2.98	21.38	0.49	38 27 42.8	43.5	5.1
18	β	Persei	7	1 47.84	+0.08	+1.75	3 1 49.67	−2.42	1 37 4.60	23.40	1.79	+40 34 47.0	47.8	−5.1
19	48	H. Cephei	9	7 58.08	+0.39	+1.75	3 8 0.22	−8.04	38 24 6.15	25.70	49.19	+77 22 35.6	37.2	−6.7
20	1	H. Ursæ Minoris s. p.	9	13 25 36	−0.15	1.76	15 13 26.97	+3.90	73 15 50.88	9.20	204.10	67 43 4.2	4.0	+4.2
21	α	Persei	9	17 20.31	+0.10	1.76	3 17 22.17	−2.88	10 32 57.78	15.40	11.59	49 30 49.8	49.6	−4.7
22	ο	Tauri	9	19 32.23	0.02	**1.81**	3 19 34.02	1.77	329 43 59.70	16.48	36.12	8 41 3.9	3.0	+0.2
23	ξ	Tauri	9	21 51.41	0.02	**1.76**	3 21 53.20	1.78	330 26 24.80	42.00	35.10	9 23 30.0	29.5	+0.2
24	f	Tauri	9	25 27.71	+0.03	**+1.76**	3 25 29.51	−1.82	333 38 54.22	12.82	30.66	+12 36 3.9	4.8	−0.1
25	ε	Eridani	9	28 18.68	0.00	**+1.73**	3 28 20.46	−1.64	311 16 4.22	22.10	70.43	− 9 47 25.8	25.7	+3.3
26	11	H^{1}. Camelop.....	9	33 40.88	+0.16	1.78	3 33 42.82	4.10	23 55 52.38	10.52	27.56	+62 54 0.1	0.6	−3.7
27	δ	Persei	9	35 57.52	0.09	1.78	3 35 59.39	2.81	8 30 40.50	57.18	9.32	47 28 30.1	29.1	2.8
28	5	H. Camelop......	9	40 3.92	0.23	1.79	3 40 5.94	5.65	32 3 33.35	52.42	38.87	+71 1 52.3	53.7	−3.2
29	τ^6	Eridani	9	42 37.78	+0.04	1.79	3 42 39.61	−1.66	297 31 52.02	9.85	118.20	−23 32 25.8	25.7	+5.1
30	ζ	Ursæ Minoris s. p.	9	47 23.91	−0.36	+1.80	15 47 25.35	+7.83	62 54 33.28	52.88	120.83	+78 5 45.1	43.4	+1.4
31	ε	Persei	9	51 17.08	+0.07	+1.80	3 51 18.95	−2.49	0 45 57.40	14.72	0.87	+39 43 38.4	38.2	−1.1
32	γ	Eridani	9	53 27.29	0.00	**1.81**	3 53 29.09	1.68	307 16 23.55	42.15	81.15	−13 47 17.4	16.3	+4.0
33	ν	Tauri............	9	57 56.52	+0.02	**1.82**	3 57 58.36	1.82	326 46 2.62	20.28	40.53	+ 5 43 2.2	2.4	2.1
34	γ	Tauri............	9	14 12.99	0.03	**1.84**	4 14 14.86	1.95	336 26 12.72	30.72	26.97	15 23 25.6	26.4	2.0
35		B. D. +35° 860 ..	8	17 8.83	+0.06	1.84	4 17 10.73	−2.38	356 42 44.28	4.00	3.52	35 40 20.7	23.1	+1.2
36	η	Ursæ Minoris s. p.	9	20 13.81	−0.27	1.85	16 20 15.39	+6.59	65 1 10.20	28.60	132.57	75 58 56.8	56.0	−2.3
37		B. D. +39° 1013..	9	24 42.76	+0.06	+1.85	4 24 44.67	−2.52	0 50 7.78	25.70	0.95	+39 47 48.4	49.2	+1.7

1901 DECEMBER 7. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ − n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
38	6	B. Ursæ Minoris s. p.	9	13 54.61	−1.53	+1.87	12 13 54.95	+28.92	52 46 45.30	4.02	80.08	+88 14 13.4	12.5	+21.9
39	44	Piscium	9	20 21.76	0.00	**1.88**	0 20 23.63	−0.92	322 27 1.20	19.38	46.70	+ 1 23 55.3	55.9	−4.9
40	12	Ceti	9	25 1.30	0.00	**1.85**	0 25 3.16	0.89	316 33 23.52	42.30	57.51	− 4 29 53.2	52.0	−2.8
41	κ	Draconis s. p	9	29 14.11	−0.12	1.86	12 29 15.85	+2.41	70 40 3.20	19.25	172.30	+70 19 23.4	25.1	+19.3
42	ζ	Cassiopeiæ	9	31 30.51	+0.06	1.86	0 31 32.43	−2.00	14 23 49.35	7.48	15.68	53 21 45.7	46.3	−18.4
43	δ	Andromedæ	9	34 4.59	+0.02	**+1.89**	0 34 6.46	−1.36	351 22 10.18	27.30	9.20	+30 19 41.5	41.3	−13.3
44	21	Cassiopeiæ	9	39 12.59	+0.15	+1.85	0 39 14.59	−4.34	35 29 4.55	22.12	43.47	+74 27 28.5	28.5	−20.3
45	ζ	Andromedæ	9	42 8.01	0.02	**1.81**	0 42 9.87	1.30	344 46 49.12	7.05	16.53	23 44 13.2	13.7	11.0
46		B. D. +37° 151 ...	9	45 49.23	0.03	1.84	0 45 51.10	1.59	358 33 10.15	28.60	1.50	37 30 49.2	50.2	14.5
47	γ	Cassiopeiæ	9	50 48.00	0.07	1.85	0 50 49.92	2.59	21 13 22.52	41.48	23.70	60 11 26.9	28.3	18.2
48	43	H. Cephei	9	55 29.70	+0.50	1.84	0 55 32.04	15.91	46 45 28.35	47.22	64.77	+85 44 12.9	14.1	−19.3
49	η	Ceti	9	3 38.84	−0.01	**+1.82**	1 3 40.67	−1.05	310 21 24.12	41.75	71.47	−10 42 6.6	6.5	+0.3
50		B. D. +36° 201 ..	9	5 39.59	+0.03	+1.84	1 5 41.46	−1.72	358 14 43.92	2.30	1.82	+37 12 22.6	23.6	−13.2
51		B. D. +40° 249 ..	9	7 44.53	+0.03	1.83	1 7 46.39	1.83	1 45 29.10	47.98	1.91	40 43 11.7	13.0	13.8
52	f	Piscium	9	12 44.01	0.00	**1.80**	1 12 45.84	1.21	324 9 2.15	19.12	43.93	3 5 58.9	58.4	3.6
53		B. D. +42° 288 ..	9	16 29.53	+0.03	1.83	1 16 31.39	1.97	4 6 44.68	2.20	4.42	+43 4 29.8	29.8	−13.7
54	θ	Ceti	9	19 6.78	0.00	**1.84**	1 19 8.61	1.14	312 22 4.08	23.45	66.62	− 8 41 21.8	20.0	+0.2
55	α	Ursæ Minoris	5	24 22.10	+1.47	+1.83	1 24 25.40	−61.76	49 48 29.11	45.61	72.13	+88 47 22.0	20.4	−17.0

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
6 1 30	.....	...	−4.7
2 15	76.58	−4.9	−5.2
2 36	.....	...	−5.2
3 7	76.62	−5.1	−5.4
3 45	.....	...	−5.3
4 23	76.60	−5.0	−5.3
7 0 2	76.45	−0.5	−1.1
0 36	.....	...	−1.4
1 2	76.44	−0.8	−1.4

Bisections are made at II and V, except as noted below.

1, 6, 9, 12, 15, 16, 18, 19, 21, 26, 27, 28, 31, 35, 39, 42, 44, 47, 48, 51, 53.	Bisections at III, V.
10, 20, 30, 36, 41.	Bisections at V, III.
38.	Bisections at c_5, c_1.
55.	Bisections at c_1, c_2, c_4, c_5.

Notes.

15, 42.	Circle A read on 24′ division.
20.	Circle A read on 16′ division.
22.	Circle A read on 44′ division.
26.	Circle A read on 56′ division.
31.	Circle A read on 46′ division.
35, 51.	Observed head south.
37, 46, 50.	Observed head north.

1–15.	Seeing 3–4.
16–37.	Seeing 2–3.
38–55.	Seeing 3.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–37, from nadir.....	*	7.59
38–55, from nadir.....	+2 25.86	8.15

*Interpolated from diagram.

NO.	NAME.		THDS.	MEAN THREAD.	$c_0'\sec\delta + n\tan\delta$.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
									A.	B.		A.	B.	
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	40	Cassiopeiæ	9	30 43.35	+0.09	+1.83	1 30 45.27	− 4.84	33 34 21.15	39.70	40.49	+72 32 42.2	43.2	−16.2
2	ν	Piscium	9	36 19.31	0.00	**1.87**	1 36 21.14	1.35	326 2 33.50	52.35	40.96	+ 4 59 33.2	34.6	− 3.3
3	ε	Sculptoris	9	41 2.72	−0.01	1.83	1 41 4.54	1.16	295 31 47.78	5.85	126.73	−25 32 38.1	37.6	+ 5.3
4	ζ	Ceti	9	46 36.80	0.00	**1.85**	1 46 38.64	1.27	310 14 21.20	39.35	71.83	−10 49 9.8	9.3	+ 1.5
5	β	Arietis	9	49 13.29	+0.01	**1.76**	1 49 15.14	1.61	341 22 30.68	48.15	20.50	+20 19 50.8	50.8	− 6.6
6	50	Cassiopeiæ	9	55 6.42	+0.07	+1.84	1 55 8.33	− 5.03	32 58 44.08	0.88	39.62	+71 57 4.3	3.5	−14.2
7	μ	Fornacis	9	8 35.01	+0.01	+1.84	2 8 36.86	− 1.28	289 53 58.62	17.65	166.60	−31 11 7.0	5.7	+ 6.8
8	γ	Trianguli	9	11 29.24	+0.01	**1.88**	2 11 31.09	1.99	354 26 12.28	30.68	5.90	+33 23 46.9	47.9	− 8.0
9	κ	Fornacis	9	18 3.06	−0.01	1.84	2 18 4.89	1.34	296 48 33.40	50.72	119.95	−24 15 45.7	46.0	+ 5.4
10	ι	Cassiopeiæ	9	21 1.38	+0.04	1.84	2 21 3.26	− 4.28	27 59 42.88	59.10	32.49	+66 57 56.0	54.6	−11.5
11	5	Ursæ Minoris s. p.	9	27 35.79	−0.07	1.84	14 27 37.56	+ 5.98	64 52 23.62	42.78	129.63	+76 7 45.5	44.2	+10.1
12	δ	Ceti	9	34 27.23	0.00	+**1.82**	2 34 29.07	− 1.53	320 57 31.68	48.05	49.39	− 0 5 37.0	38.1	+ 0.2
13	θ	Persei	9	37 30.94	+0.02	+1.84	2 37 32.80	− 2.69	9 51 9.18	25.20	10.64	+48 48 60.5	59.0	− 8.2
14	π	Ceti	9	39 27.14	0.00	**1.79**	2 39 28.98	1.46	306 47 12.95	30.42	81.30	−14 16 27.5	27.6	+ 3.4
15	41	Arietis	9	44 12.90	+0.01	**1.83**	2 44 14.75	1.96	347 54 2.10	19.25	13.03	+26 51 29.6	29.4	− 4.6
16	τ	Persei	9	47 19.38	0.02	1.85	2 47 21.25	2.95	13 23 54.42	12.65	14.58	52 21 49.7	50.3	7.8
17	47	H. Cephei	9	53 9.47	0.06	1.85	2 53 11.38	8.99	40 3 30.05	48.72	51.36	79 2 1.8	2.9	8.5
18	ρ	Persei	9	58 54.06	+0.01	+**1.87**	2 58 55.92	− 2.32	359 30 3.65	20.78	0.49	+38 27 43.6	43.4	− 5.2
19	β	Persei	9	1 47.92	+0.01	+1.85	3 1 49.78	− 2.42	1 37 4.68	22.08	1.77	+40 34 47.2	47.0	− 5.2
20	48	H. Cephei	9	7 58.41	+0.04	1.85	3 8 0.30	− 8.03	38 24 8.30	25.62	48.42	77 22 37.2	36.9	− 7.0
21	1	H. Ursæ Minoris s. p.	9	13 25.03	−0.02	1.85	15 13 26.86	+ 3.88	73 15 53.65	12.65	200.91	67 43 4.3	3.2	+ 4.6
22	α	Persei	9	17 20.32	+0.01	1.85	3 17 22.18	− 2.88	10 32 58.35	14.75	11.41	49 30 50.5	49.3	− 4.8
23	ο	Tauri	9	19 32.21	0.00	**1.85**	3 19 34.06	1.77	329 43 58.95	15.90	35.56	8 41 4.1	3.5	+ 0.3
24	ξ	Tauri	9	21 51.32	0.00	+**1.87**	3 21 53.17	− 1.78	330 26 23.88	39.92	34.55	+ 9 23 30.0	28.6	+ 0.3
25	f	Tauri	9	25 27.66	0.00	+**1.94**	3 25 29.51	− 1.82	333 38 53.85	11.52	30.18	+12 36 4.3	4.5	0.0
26	ε	Eridani	9	28 18.57	0.00	**1.84**	3 28 20.42	1.64	311 16 2.62	19.82	69.36	− 9 47 25.9	26.3	+ 3.4
27	11	H^1. Camelop	9	33 40.96	0.00	1.85	3 33 42.81	4.10	23 55 53.12	11.20	27.13	+62 54 0.9	1.4	− 3.9
28	δ	Persei	9	35 57.59	0.00	1.85	3 35 59.44	2.82	8 30 41.18	56.68	9.18	47 28 31.1	29.0	2.9
29	5	H. Camelop	9	40 4.16	0.00	1.85	3 40 6.01	5.64	32 3 34.58	52.15	38.27	+71 1 53.4	53.4	− 3.5
30	τ^6	Eridani	9	42 37.73	0.00	+1.85	3 42 39.58	− 1.66	297 31 50.00	6.95	116.38	−23 32 25.5	26.2	+ 5.4
31	ζ	Ursæ Minoris s.p.	9	47 23.13	0.00	+1.86	15 47 24.99	+ 7.81	62 54 35.05	53.95	119.00	+78 5 44.7	43.6	+ 1.7
32	ε	Persei	9	51 17.11	0.00	1.86	3 51 18.97	− 2.50	0 45 57.02	13.82	0.86	+39 43 38.6	37.8	− 1.2
33	γ	Eridani	9	53 27.27	0.00	**1.84**	3 53 29.13	1.69	307 16 21.82	39.35	79.90	−13 47 17.3	17.3	+ 4.2
34	ν	Tauri	9	57 56.49	0.00	**1.87**	3 57 58.35	1.82	326 46 2.05	18.65	39.90	+ 5 43 2.9	2.0	2.2
35	γ	Tauri	9	14 13.02	0.00	**1.84**	4 14 14.88	1.95	336 26 11.62	29.28	26.55	15 23 25.7	25.9	2.1
36		B. D.+35° 860	9	17 8.86	0.00	+1.86	4 17 10.72	− 2.38	356 42 45.28	3.68	3.46	+35 40 22.3	23.4	+ 1.1
37	η	Ursæ Minoris s.p.	9	20 13.37	+0.03	+1.86	16 20 15.26	+ 6.57	65 1 12.95	29.85	130.50	+75 58 55.3	56.2	− 1.9
38		B. D.+39° 1013	9	24 42.81	−0.01	+1.86	4 24 44.66	− 2.53	0 50 7.82	25.05	0.93	+39 47 49.5	49.1	+ 1.5

1901 DECEMBER 8. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	$c_0'\sec\delta + n\tan\delta$.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
									A.	B.		A.	B.	
39	6	B. Ursæ Minoris s. p.	9	13 55.19	−2.14	+1.68	12 13 54.73	+28.33	52 46 43.45	11.38	78.02	+88 14 13.5	11.6	+22.1
40	44	Piscium	9	20 21.96	+0.01	**1.66**	0 20 23.64	− 0.91	322 26 56.25	22.50	45.50	+ 1 23 55.3	55.8	− 4.9
41	12	Ceti	9	25 1.50	+0.01	**1.63**	0 25 3.17	− 0.88	316 33 17.00	44.50	56.03	− 4 29 54.4	52.7	− 2.8
42	κ	Draconis s. p.	9	29 14.52	−0.17	1.66	12 29 16.01	+ 2.35	70 40 3.70	29.78	167.87	+70 19 23.5	23.5	+19.6
43	ζ	Cassiopeiæ	9	31 30.69	+0.08	1.65	0 31 32.42	− 1.97	14 23 44.40	12.65	15.28	53 21 44.2	46.6	−18.5
44	δ	Andromedæ	9	34 4.78	+0.04	+**1.67**	0 34 6.48	− 1.35	351 22 5.62	32.18	8.96	+30 19 41.0	42.0	−13.3
45	21	Cassiopeiæ	9	39 12.70	+0.21	+1.65	0 39 14.56	− 4.28	35 29 2.00	27.12	42.34	+74 27 28.7	28.0	−20.5
46	ζ	Andromedæ	9	42 8.15	0.03	**1.65**	0 42 9.83	1.29	344 46 44.25	11.18	16.10	23 44 12.8	13.8	11.0
47		B. D.+37° 151	9	45 49.45	0.05	1.64	0 45 51.14	1.57	358 33 4.92	31.65	1.46	37 30 48.0	48.9	14.5
48	γ	Cassiopeiæ	9	50 48.11	0.10	1.63	0 50 49.84	2.56	21 13 18.58	46.10	23.09	60 11 26.2	27.8	18.3
49	43	H. Cephei	9	55 29.24	+0.70	1.63	0 55 31.57	15.69	46 45 25.05	53.22	63.11	+85 44 11.7	14.0	−19.5
50	η	Ceti	9	3 39.06	0.00	+**1.58**	1 3 40.68	− 1.04	310 21 17.65	44.25	69.65	−10 42 7.4	6.6	+ 0.4
51		B. D.+36° 201	9	5 39.73	+0.04	+1.62	1 5 41.39	− 1.71	358 14 39.20	6.05	1.78	+37 12 22.0	23.0	−13.3
52		B. D.+40° 249	9	7 44.71	0.05	1.61	1 7 46.37	1.82	1 45 25.45	53.45	1.86	40 43 11.6	14.0	13.8
53	f	Piscium	9	12 44.13	0.01	**1.67**	1 12 45.75	1.21	324 8 56.98	22.80	42.81	3 5 58.7	58.8	3.5
54		B. D.+42° 288	9	16 29.77	0.05	1.61	1 16 31.43	1.95	4 6 41.15	7.60	4.31	+43 4 29.7	30.6	−13.8
55	θ	Ceti	9	19 6.98	0.01	**1.62**	1 19 8.61	1.13	312 21 59.08	25.45	64.90	− 8 41 21.2	20.7	+ 0.3
56	α	Ursæ Minoris	5	24 22.10	+2.13	+1.61	1 24 25.84	−61.15	49 48 27.64	52.34	70.26	+88 47 22.1	21.2	−17.2

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
7 1 53	76.44	−1.0	−1.7
2 56	76.40	−1.3	−2.1
3 38	76.37	−1.5	−2.2
4 22	76.34	−1.5	−2.2
8 0 7	75.96	+4.2	+4.0
1 0	75.94	+3.6	+3.6

Bisections are made at II and V, except as noted below.

1, 6, 10, 13, 16, 17, 19, 20, 22, 27, 28, 29, 32, 33, 38, 43, 45, 47, 48, 49, 51.	Bisections at III, V.
11, 21, 31, 37, 42.	Bisections at V, III.
39.	Bisections at c_5, c_1.
56.	Bisections at c_1, c_2, c_4, c_5.

Notes.

7.	Circle A read on 54′ division.
16.	Circle A read on 24′ division.
21.	Circle A read on 16′ division.
21, 23, 31.	Very unsteady.
23.	Circle A read on 44′ division.
27.	Circle A read on 56′ division.
32.	Circle A read on 46′ division.
36, 52, 54.	Observed head north.
38, 47, 51.	Observed head south.
49.	Unsteady and blurred.
55	Circle A read on 22′ division.
56.	Very unsteady and blurred.

1–26, 39–50	Seeing 3.
27–38.	Seeing 2–3.
50–56.	Seeing 2.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–38, from nadir	+2	25.86	8.15
39–56, from nadir	+2	29.69	3.72

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	40 Cassiopeiæ	9	30 43.47	+0.14	+1.61	1 30 45.22	− 4.80	33 34	45.00	39.43	+72 32	43.0	−16.4
2	ν Piscium	9	36 19.52	+0.02	**1.63**	1 36 21.14	1.34	326 2 27.70	54.42	39.88	+ 4 59 32.4	33.3	− 3.2
3	ε Sculptoris	9	41 2.91	0.00	1.60	1 41 4.51	1.15	295 31 40.68	6.72	123.37	−25 32 38.0	37.8	+ 5.4
4	ζ Ceti	9	46 37.08	+0.01	**1.55**	1 46 38.69	1.26	310 14 14.62	41.00	69.92	−10 49 10.7	10.1	+ 1.7
5	β Arietis	9	49 13.46	0.02	**1.57**	1 49 15.08	1.60	341 22 26.02	52.22	19.95	+20 19 50.5	51.0	− 6.6
6	50 Cassiopeiæ	9	55 6.66	+0.11	+1.60	1 55 8.37	− 5.00	32 58 41.28	7.05	38.56	+71 57 4.2	4.2	−14.4
7	μ Fornacis	9	8 35.22	0.00	+1.61	2 8 36.83	− 1.27	289 53 49.12	16.52	162.20	−31 11 8.3	6.8	+ 7.0
8	γ Trianguli	9	11 29.44	+0.03	**1.65**	2 11 31.08	1.98	354 26 8.20	34.60	5.74	+33 23 46.8	47.6	− 8.1
9	κ Fornacis	9	18 3.26	0.00	1.62	2 18 4.88	1.33	296 48 24.65	50.55	116.80	−24 15 47.4	47.4	+ 5.6
10	ι Cassiopeiæ	9	21 1.61	+0.07	1.62	2 21 3.30	− 4.26	27 59 39.55	3.52	31.63	+66 57 55.6	53.8	−11.7
11	5 Ursæ Minoris S. P.	9	27 36.24	−0.11	1.62	14 27 37.75	+ 5.93	64 52 24.02	51.40	126.20	+76 7 44.7	43.4	+10.4
12	δ Ceti	9	34 27.42	+0.01	+**1.62**	2 34 29.06	− 1.53	320 57 26.38	50.65	48.09	− 0 5 37.1	38.7	+ 0.3
13	θ Persei	9	37 31.17	+0.03	+1.63	2 37 32.83	− 2.69	9 51 4.78	28.80	10.37	+48 48 59.7	57.9	− 8.4
14	π Ceti	9	39 27.28	0.01	**1.64**	2 39 28.92	1.46	306 47 5.72	31.78	79.20	−14 16 28.8	28.6	+ 3.6
15	41 Arietis	9	44 13.09	0.02	**1.63**	2 44 14.74	1.96	347 53 57.00	22.70	12.70	+26 51 28.7	28.7	− 4.6
16	τ Persei	9	47 19.59	0.03	1.64	2 47 21.26	2.95	13 23 51.30	17.82	14.20	52 21 50.0	50.7	8.0
17	47 H. Cephei	9	53 9.68	0.10	1.64	2 53 11.42	8.96	40 3 27.18	53.72	50.03	79 2 1.4	2.1	8.8
18	ρ Persei	9	58 54.29	+0.02	+**1.63**	2 58 55.96	− 2.32	359 29 59.75	24.35	0.47	+38 27 43.6	42.6	− 5.4
19	β Persei	7	1 48.06	+0.02	+1.65	3 1 49.73	− 2.41	1 37 0.78	26.65	1.72	+40 34 47.2	47.1	− 5.4
20	48 H. Cephei	9	7 58.64	+0.07	1.66	3 8 0.37	− 8.01	38 24 5.18	31.42	47.17	77 22 36.6	37.0	− 7.3
21	1 H. Ursæ Minoris S. P.	9	13 25.31	−0.03	1.66	15 13 26.94	+ 3.85	73 15 55.52	21.30	195.80	67 43 3.7	4.0	+ 4.9
22	α Persei	9	17 20.59	+0.02	1.66	3 17 22.27	− 2.88	10 32 54.72	19.50	11.12	49 30 50.4	49.3	− 5.0
23	ο Tauri	9	19 32.34	0.01	**1.71**	3 19 34.02	1.77	329 43 54.28	19.60	34.63	8 41 4.2	3.7	+ 0.3
24	ξ Tauri	9	21 51.50	+0.01	+**1.68**	3 21 53.18	− 1.78	330 26 18.15	43.42	33.66	+ 9 23 29.0	28.5	+ 0.3
25	f Tauri	9	25 27.88	+0.01	+**1.61**	3 25 29.56	− 1.82	333 38 49.25	14.55	29.40	+12 36 4.4	3.9	0.0
26	ε Eridani	7	28 18.72	0.01	**1.68**	3 28 20.41	1.64	311 15 56.70	22.05	67.57	− 9 47 26.2	26.7	+ 3.6
27	11 H^1. Camelop	9	33 41.20	0.02	1.69	3 33 42.91	4.10	23 55 49.48	16.75	26.43	+62 54 0.4	1.8	− 4.1
28	δ Persei	7	35 57.75	0.01	1.69	3 35 59.45	2.82	8 30 38.00	2.15	8.94	47 28 31.5	29.8	3.1
29	5 H. Camelop	9	40 4.31	0.02	1.69	3 40 6.02	5.64	32 3 31.52	57.65	37.28	+71 1 53.2	53.5	− 3.7
30	τ^6 Eridani	3	42 37.87	+0.02	+1.69	3 42 39.58	− 1.66	297 31 42.60	7.30	113.40	−23 32 26.1	27.1	+ 5.6
31	ζ Ursæ Minoris S. P.	7	47 23.41	−0.02	+1.70	15 47 25.09	+ 7.79	62 54 36.00	2.00	115.92	+78 5 43.0	43.0	+ 2.1
32	ε Persei	9	51 17.29	+0.01	1.71	3 51 19.01	− 2.51	0 45 52.98	18.42	0.84	+39 43 38.4	38.0	− 1.3
33	γ Eridani	6	53 27.42	0.01	**1.68**	3 53 29.14	1.69	307 16 15.52	41.18	77.86	−13 47 17.7	17.8	+ 4.4
34	ν Tauri	9	57 56.63	0.01	+**1.73**	3 57 58.35	− 1.83	326 45 56.08	21.40	38.87	+ 5 43 1.8	1.3	2.3
35	γ Tauri	.	.. ..	....	....	4 14	....	336 26 7.38	33.70	25.86	15 23 26.2	26.6	2.1
36	B. D. +35° 860	.	.. ..	....	....	4 17	....	356 42 39.98	7.45	3.37	+35 40 21.2	22.8	+ 1.0
37	η Ursæ Minoris S. P.	.	.. ..	....	....	16 20	....	65 1 13.08	39.50	127.10	+75 58 54.8	54.4	− 1.6
38	B. D. +39° 1013	.	.. ..	....	....	4 24	....	0 50 4.22	29.20	0.91	+39 47 49.4	48.8	+ 1.4

1901 DECEMBER 9. CLAMP WEST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
39	α Ursæ Minoris S. P.	8	24 28.85	−7.90	[+**3.32**]	1 24	....	52 13 34.52	3.69	75.22	+88 47 22.4	20.7	−17.7
40	η Bootis	9	49 58.72	+0.07	[+**1.74**]	13 50	....	339 56	.....	.....	+18 53	....	....

1901 DECEMBER 10. CLAMP EAST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
41	ε Virginis	9	57 15.83	−0.01	[+**1.92**]	12 57	....	27 23	.....	.....	+11 29	....	....
42	α Ursæ Minoris S. P.	9	24 27.72	−6.86	[**2.74**]	1 24	....	307 41 19.92	48.41	77.73	88 47 21.2	21.3	−17.9
43	η Bootis	9	49 58.60	+0.01	[+**1.95**]	13 50	....	19 59	.....	.....	+18 53	....	....

1901 DECEMBER 11. CLAMP EAST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
44	α Ursæ Minoris S. P.	8	24 27.59	−6.53	[+**1.80**]	1 24	....	307 41 20.09	49.10	77.80	+88 47 21.8	22.4	−18.1
45	η Bootis	9	49 58.50	+0.01	[+**2.08**]	13 50	....	19 59	.....	.....	+18 53	....	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
8 1 56	75.89	+3.3	+3.5
2 54	75.86	+3.0	+2.9
3 50	75.82	+2.4	+2.8
4 22	75.79	+2.8	+2.8
9 13 16	75.23	+6.2	+5.7
13 59	.....	...	+6.0
10 13 19	76.33	+1.1	+1.0
11 13 20	76.40	+1.5	+1.0

Bisections are made at II and V, except as noted below.

1.	Bisection at V.
6, 10, 12, 13, 16, 17, 20, 22, 27, 28, 29, 32, 36.	Bisections at III, V.
11, 21, 31, 37.	Bisections at V, III.
19, 26.	Bisections at IV, V.
30, 33.	Bisections at III, VI.
35.	Bisections at IV, VI.
39, 42, 44.	Bisections at c_5, c_4, c_2, c_1.

Notes.

1.	Poor observation.
11, 14.	Unsteady.
13.	Unsteady; poor observation.
15.	Circle A read on 54′ division.
16.	Circle A read on 24′ division.
18.	Circle A read on 30′ division.
21, 26.	Circle A read on 16′ division.
23.	Circle A read on 44′ division.
30, 31, 33.	Clouds; poor observation.
32, 34.	Circle A read on 46′ division.
36.	Observed head south.
38.	Observed head north.

1–38.	Seeing 2–3.
44.	Seeing 5.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–38, from nadir	+2	29.69	3.72
39, from nadir	2	32.72	4.94
42, from nadir	2	32.42	3.72
44, from nadir	+2	32.95	4.22

1901 DECEMBER 14. CLAMP EAST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	$c_0'\sec\delta + n\tan\delta$.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	α	Ursæ Minoris S. P.	9	24 26.67	−9.04	[+**2.65**]	1 24	....	307 41	.....	.....	+88 47	....	....
2	α	Bootis	9	11 8.57	+0.03	[+**2.31**]	14 11	....	19 10	.....	.....	+19 42	....	....

1901 DECEMBER 15. CLAMP EAST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	$c_0'\sec\delta + n\tan\delta$.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
3	ε	Virginis	9	57 15.50	−0.04	[+**2.43**]	12 57	....	27 23	.....	.....	+11 29	....	....
4	α	Ursæ Minoris S. P.	9	24 22.33	6.82	[**3.83**]	1 24	....	307 41 29.20	50.54	80.93	88 47 23.6	23.4	−19.1
5	η	Bootis	9	49 58.23	−0.01	[+**2.48**]	13 50	....	19 59	.....	.....	+18 53	....	....

1901 DECEMBER 16. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	$c_0'\sec\delta + n\tan\delta$.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
6	f	Piscium	9	12 43.27	−0.06	+**2.53**	1 12 45.75	− 1.14	35 46 1.22	22.32	44.62	+ 3 5 58.0	56.9	− 2.9
7	θ	Ceti	9	19 6.09	−0.08	**2.53**	1 19 8.53	1.06	47 32 55.48	17.62	67.62	− 8 41 19.2	21.3	+ 1.1
8	α	Ursæ Minoris	7	24 13.13	+1.99	2.51	1 24 17.63	54.84	310 6 34.06	54.42	73.22	+88 47 22.9	22.2	−19.2
9	40	Cassiopeiæ	9	30 42.22	+0.12	2.50	1 30 44.84	4.44	326 20 39.88	1.02	41.10	72 32 44.8	43.6	17.9
10	ν	Piscium	9	36 18.66	−0.05	**2.49**	1 36 21.10	1.27	33 52 26.88	47.75	41.57	+ 4 59 35.4	34.4	− 2.6
11	ε	Sculptoris	9	41 2.10	−0.12	+2.49	1 41 4.47	− 1.07	64 23 11.52	33.28	128.60	−25 32 36.2	38.1	+ 6.7
12	ζ	Ceti	9	46 36.18	−0.08	+**2.47**	1 46 38.58	− 1.19	49 40 41.70	1.48	72.86	−10 49 10.6	10.6	+ 2.6
13	β	Arietis	9	49 12.52	−0.03	**2.50**	1 49 14.97	1.54	18 32 29.52	51.02	20.80	+20 19 53.4	51.9	− 6.5
14	50	Cassiopeiæ	9	55 5.48	+0.10	2.48	1 55 8.06	4.71	326 56 17.48	38.62	40.19	+71 57 6.4	5.0	−16.0
15	μ	Fornacis	9	8 34.49	−0.13	2.46	2 8 36.82	1.19	70 1 2.95	22.58	168.90	−31 11 7.8	7.8	+ 8.5
16	γ	Trianguli	9	11 28.61	0.01	**2.46**	2 11 31.06	1.92	5 28 50.22	10.48	5.98	+33 23 47.5	47.1	− 8.5
17	κ	Fornacis	6	18 2.45	−0.11	+2.46	2 18 4.80	− 1.27	63 6 30.98	51.95	121.56	−24 15 48.7	49.8	+ 7.1
18	ι	Cassiopeiæ	9	21 0.56	+0.05	+2.46	2 21 3.07	− 4.09	331 55 19.08	40.88	32.93	+66 57 57.6	55.4	−13.4
19	δ	Ceti	9	34 26.58	−0.06	**2.49**	2 34 28.98	1.49	38 57 32.78	53.30	50.05	− 0 5 39.0	39.9	+ 1.1
20	θ	Persei	9	37 30.23	0.00	2.46	2 37 32.69	2.63	350 3 52.42	12.92	10.79	+48 49 2.2	1.2	− 9.5
21	π	Ceti	9	39 26.55	−0.09	**2.42**	2 39 28.92	1.41	53 7 50.95	11.58	82.40	−14 16 29.4	30.5	+ 4.9
22	41	Arietis	9	44 12.30	−0.03	**2.44**	2 44 14.73	1.93	12 1 0.45	20.55	13.21	+26 51 30.1	29.6	− 4.9
23	τ	Persei	9	47 18.67	+0.01	+2.46	2 47 21.14	− 2.89	346 31 5.12	26.65	14.78	+52 21 53.4	51.4	− 9.3
24	47	H. Cephei	9	53 8.46	+0.09	+2.46	2 53 11.01	− 8.64	319 51 31.08	50.35	52.04	+79 2 4.4	4.7	−11.1
25	ρ	Persei	9	58 53.48	−0.02	**2.46**	2 58 55.92	2.30	0 24 57.45	18.60	0.49	38 27 45.7	44.2	6.1
26	β	Persei	9	1 47.29	−0.01	2.46	3 1 49.74	2.40	358 17 57.05	17.38	1.79	40 34 48.6	47.7	6.3
27	48	H. Cephei	9	7 57.52	+0.06	2.46	3 8 0.04	7.80	321 30 53.60	12.75	49.06	77 22 39.0	39.3	9.5
28	α	Persei	9	17 19.79	−0.01	2.46	3 17 22.24	2.87	349 22 1.62	21.95	11.56	49 30 53.7	52.8	− 6.4
29	o	Tauri	9	19 31.63	−0.05	+**2.48**	3 19 34.04	− 1.77	30 11 5.32	25.25	36.02	+ 8 41 2.5	2.0	+ 0.8
30	ξ	Tauri	9	21 50.74	−0.05	+**2.50**	3 21 53.16	− 1.78	29 28 41.10	59.25	35.00	+ 9 23 27.7	29.0	+ 0.8
31	f	Tauri	9	25 27.04	0.05	**2.52**	3 25 29.46	1.83	26 16 8.88	30.10	30.57	+12 36 4.4	2.5	0.3
32	ε	Eridani	9	28 18.08	−0.08	**2.41**	3 28 20.48	1.64	48 39 1.55	20.00	70.24	− 9 47 27.8	27.0	+ 4.8
33	11	H¹. Camelop	9	33 40.42	0.00	2.48	3 33 42.90	4.07	335 59 6.72	25.98	27.49	+62 54 4.5	4.6	− 6.1
34	δ	Persei	7	35 57.05	−0.02	2.48	3 35 59.51	2.83	351 24 20.55	39.58	9.30	47 28 32.5	32.8	4.4
35	5	H. Camelop	9	40 3.51	+0.01	+2.48	3 40 6.00	− 5.60	327 51 26.25	45.72	38.77	+71 1 56.2	56.0	− 5.9
36	ε	Persei	9	51 16.60	−0.02	+2.49	3 51 19.07	− 2.53	359 9 5.82	24.85	0.87	+39 43 38.9	39.1	− 2.2
37	γ	Eridani	9	53 26.68	0.08	**2.52**	3 53 29.09	1.70	52 38 41.88	2.28	80.95	−13 47 18.9	20.1	+ 5.9
38	ν	Tauri	9	57 55.97	0.06	**2.48**	3 57 58.41	1.85	33 9 1.38	21.42	40.43	+ 5 43 2.0	1.2	3.0
39	γ	Tauri	9	14 12.45	0.05	**2.51**	4 14 14.92	2.00	23 28 49.48	9.95	26.91	15 23 27.4	26.1	2.3
40		B.D.+35° 860	9	17 8.34	−0.03	+2.53	4 17 10.84	− 2.44	3 12 12.62	34.45	3.51	+35 40 27.5	25.0	+ 0.2

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
15 13 16	75.94	−10.0	−10.8
13 45	.....	....	−10.6
16 1 10	75.68	− 7.0	− 8.0
1 39	.....	....	− 8.0
2 14	75.65	− 7.3	− 8.0
2 56	75.65	− 7.2	− 8.0
3 33	75.62	− 7.2	− 8.0
4 22	75.62	− 7.1	− 8.0

Bisections are made at II and V, except as noted below.

4.	Bisections at c_5, c_4, c_2, c_1.
7.	Bisections at III, VI.
8.	Bisections at c_1, c_2, c_4, c_5.
9, 11, 14, 18, 20, 23, 24, 26, 27, 28, 33, 34, 35, 36,	Bisections at III, V.
17.	Bisections at IV, VI.

Notes.

1, 2.	Seeing 1–2.
3–5.	Seeing 3.
6–31.	Seeing 2–3.
18.	First bisection doubtful.
21, 22, 24, 27.	Clouds; poor.
26.	Circle A read on 18′ division.
32.	Poor.
33–40.	Seeing 2.
40.	Observed head north.

Adopted Zenith Point Corrections.

		A.	B.
		′ ″	″
4,	from nadir	+2 28.82	6.90.
6–40,	from nadir	+2 29.12	*

*Interpolated from diagram.

1901 DECEMBER 17. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ .. n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	6 B. Ursæ Minoris s. p.	9	14 4.53	−5.16	+2.46	12 14 1.83	+22.03	307 8 15.85	37.35	79.98	+88 14 12.1	12.2	+23.5
2	44 Piscium	9	20 21.12	0.05	**2.46**	0 20 23.52	− 0.81	37 28 3.45	24.78	46.64	+ 1 23 53.4	53.4	− 4.2
3	12 Ceti	9	25 0.72	0.07	**2.40**	0 25 3.09	− 0.79	43 21 38.65	1.08	57.45	− 4 29 52.6	53.7	− 2.0
4	κ Draconis s. p.	9	29 14.61	−0.44	2.43	12 29 16.60	+ 1.72	289 14 58.08	19.82	172.00	+70 19 22.4	22.8	+21.4
5	ζ Cassiopeiæ	9	31 29.61	+0.20	2.43	0 31 32.24	− 1.76	345 31 11.15	33.42	15.66	53 21 47.9	47.0	−19.1
6	δ Andromedæ	9	34 3.86	+0.06	+**2.45**	0 34 6.35	− 1.23	8 32 51.30	12.68	9.19	+30 19 42.8	42.9	−13.3
7	21 Cassiopeiæ	9	39 10.93	+0.56	+2.42	0 39 13.91	− 3.72	324 25 57.40	19.45	43.41	+74 27 29.2	28.5	−21.7
8	ζ Andromedæ	9	42 7.29	0.04	**2.40**	0 42 9.75	1.19	15 8 13.10	35.48	16.51	23 44 13.7	12.8	10.8
9	B. D.+37° 151	9	45 48.51	0.10	2.41	0 45 51.02	1.45	1 21 50.60	12.25	1.49	37 30 51.2	51.0	14.8
10	γ Cassiopeiæ	9	50 46.95	0.26	2.41	0 50 49.62	2.31	338 41 37.62	58.02	23.68	60 11 29.4	30.3	19.3
11	43 H. Cephei	9	55 25.58	+2.13	2.40	0 55 30.11	13.54	313 9 32.78	55.20	64.71	+85 44 14.4	13.2	−21.2
12	η Ceti	9	3 38.29	−0.09	+**2.34**	1 3 40.59	− 0.94	49 33 38.95	0.00	71.42	−10 42 6.8	6.7	+ 1.4
13	B. D.+36° 201	9	5 38.79	+0.10	+2.39	1 5 41.28	− 1.59	1 40 17.05	39.10	1.82	+37 12 24.4	23.7	−13.6
14	B. D.+40° 249	9	7 43.76	+0.11	2.39	1 7 46.26	1.69	358 9 31.75	53.72	1.91	40 43 13.6	12.8	14.3
15	f Piscium	9	12 43.36	−0.04	**2.41**	1 12 45.70	1.13	35 46 1.42	23.72	43.91	3 5 58.1	57.0	2.9
16	B. D.+42° 288	9	16 28.74	+0.13	2.38	1 16 31.25	1.83	355 48 16.85	38.82	4.42	+43 4 31.0	30.2	−14.5
17	θ Ceti	9	19 6.23	−0.08	**2.38**	1 19 8.52	1.05	47 32 57.00	19.20	66.59	− 8 41 20.0	21.1	+ 1.2
18	α Ursæ Minoris	5	24 9.40	+7.53	+2.37	1 24 19.30	−53.94	310 6 32.26	53.61	72.09	+88 47 22.9	23.0	−19.4
19	40 Cassiopeiæ	9	30 42.00	+0.50	+2.37	1 30 44.87	− 4.40	326 20 38.88	0.68	40.48	+72 32 44.8	44.2	−18.1
20	ν Piscium	9	36 18.74	−0.03	**2.38**	1 36 21.07	1.26	33 52 28.55	49.58	40.95	+ 4 59 34.0	34.0	− 2.6
21	ε Sculptoris	9	41 2.21	0.16	2.36	1 41 4.41	1.05	64 23 14.25	37.48	126.70	−25 32 37.3	39.6	+ 6.9
22	ζ Ceti	9	46 36.27	−0.09	**2.38**	1 46 38.53	1.18	49 40 42.72	3.22	71.80	−10 49 11.0	10.5	+ 2.7
23	β Arietis	9	49 12.61	+0.02	**2.35**	1 49 14.98	1.53	18 32 29.40	51.55	20.49	+20 19 53.5	52.5	− 6.5
24	50 Cassiopeiæ	9	55 5.11	+0.48	+2.35	1 55 7.94	− 4.67	326 56 16.75	38.65	39.60	+71 57 6.1	5.2	−16.2
25	μ Fornacis	9	8 34.59	−0.19	+2.35	2 8 36.75	− 1.18	70 1 4.72	25.55	166.50	−31 11 7.5	7.5	+ 8.7
26	γ Trianguli	9	11 28.61	+0.08	**2.36**	2 11 31.04	1.91	5 28 50.25	11.55	5.89	+33 23 47.1	47.0	− 8.6
27	κ Fornacis	8	18 2.54	−0.15	2.35	2 18 4.74	1.26	63 6 31.50	53.75	119.90	−24 15 47.8	49.2	+ 7.2
28	ι Cassiopeiæ	9	21 0.28	+0.36	2.35	2 21 2.99	− 4.06	331 55 18.48	41.80	32.47	+66 57 57.3	54.9	−13.6
29	5 Ursæ Minoris s. p.	9	27 36.40	−0.64	2.35	14 27 38.11	+ 5.39	295 2 33.10	54.65	129.60	+76 7 39.7	40.4	+13.2
30	δ Ceti	9	34 26.70	−0.05	+**2.36**	2 34 29.00	− 1.49	38 57 32.85	54.12	49.35	− 0 5 38.7	39.1	+ 1.2
31	θ Persei	9	37 30.18	+0.16	+2.35	2 37 32.69	− 2.62	350 3 51.95	13.78	10.64	+48 49 2.1	1.1	− 9.7
32	π Ceti	9	39 26.66	−0.11	**2.32**	2 39 28.90	1.40	53 7 51.40	13.35	81.25	−14 16 29.1	30.3	+ 5.0
33	41 Arietis	9	44 12.31	+0.05	**2.35**	2 44 14.72	1.93	12 0 59.82	21.05	13.03	+26 51 30.5	30.2	− 4.9
34	τ Persei	9	47 18.59	0.19	2.36	2 47 21.14	2.88	346 31 4.48	26.92	14.57	52 21 53.5	51.9	9.5
35	47 H. Cephei	9	53 7.88	0.82	2.36	2 53 11.06	8.60	319 51 29.38	50.05	51.30	79 2 5.0	5.1	11.3
36	ρ Persei	9	58 53.50	+0.10	+**2.32**	2 58 55.97	− 2.30	0 24 57.20	19.48	0.49	+38 27 45.6	44.2	− 6.2
37	β Persei	9	1 47.26	+0.11	+2.37	3 1 49.74	− 2.39	358 17 56.80	17.90	1.76	+40 34 48.4	48.0	− 6.4
38	48 H. Cephei	9	7 57.02	+0.70	2.38	3 8 0.10	− 7.76	321 30 52.38	12.58	48.37	77 22 39.1	39.7	− 9.7
39	I H. Ursæ Minoris s. p.	9	13 25.15	−0.38	2.38	15 13 27.15	+ 3.56	286 39 4.58	26.08	200.70	67 43 0.2	1.0	+ 8.1
40	α Persei	9	17 19.61	+0.17	2.39	3 17 22.17	− 2.86	349 22 1.00	21.95	11.40	49 30 53.8	53.6	− 6.5
41	II Tauri	9	19 31.68	−0.02	**2.40**	3 19 34.05	1.77	30 11 4.92	25.42	35.53	8 41 3.0	3.2	+ 0.9
42	ξ Tauri	9	21 50.81	0.02	+**2.40**	3 21 53.18	− 1.78	29 28 40.98	0.62	34.54	+ 9 23 27.9	29.0	+ 0.9
43	f Tauri	9	25 27.11	0.00	+**2.40**	3 25 29.50	− 1.83	26 16 8.75	31.52	30.16	+12 36 4.5	2.4	+ 0.4
44	ε Eridani	9	28 18.11	−0.09	**2.39**	3 28 20.41	1.64	48 39 2.10	22.75	69.33	− 9 47 27.9	27.9	+ 4.9
45	11 H¹. Camelop	9	33 40.15	+0.30	2.40	3 33 42.85	4.06	335 59 6.10	27.35	27.12	+62 54 4.4	3.7	− 6.3
46	δ Persei	9	35 56.97	0.15	2.40	3 35 59.52	2.82	351 24 19.85	40.60	9.18	47 28 32.7	32.6	4.5
47	5 H. Camelop	9	40 3.19	+0.45	2.41	3 40 6.05	5.59	327 51 24.98	46.12	38.26	+71 1 56.5	56.0	− 6.1
48	τ^6 Eridani	9	42 37.28	−0.15	+2.41	3 42 39.54	− 1.64	62 23 14.48	36.05	116.40	−23 32 27.3	28.3	+ 7.7
49	ζ Ursæ Minoris s. p.	9	47 23.78	−0.75	+2.41	15 47 25.44	+ 7.49	297 0 23.10	44.25	119.00	+78 5 40.2	40.8	+ 5.3
50	ε Persei	9	51 16.53	+0.11	2.42	3 51 19.06	− 2.53	359 9 4.50	25.88	0.86	+39 43 39.8	39.0	− 2.3
51	γ Eridani	9	53 26.78	−0.10	**2.44**	3 53 29.10	1.70	52 38 42.62	4.32	79.91	−13 47 19.0	20.2	+ 6.1
52	ν Tauri	9	57 55.97	−0.03	**2.45**	3 57 58.36	1.85	33 9 1.55	22.32	39.91	+ 5 43 2.0	1.8	3.1
53	γ Tauri	9	14 12.51	0.00	**2.41**	4 14 14.94	2.01	23 28 50.42	11.08	26.57	15 23 26.4	25.3	2.4
54	B. D.+35° 860	9	17 8.36	+0.09	+2.44	4 17 10.89	− 2.45	3 12 13.75	35.40	3.46	+35 40 26.0	25.0	+ 0.2
55	η Ursæ Minoris s. p.	9	20 13.62	−0.63	+2.44	16 20 15.43	+ 6.42	294 53 42.80	6.32	130.60	+75 58 48.4	50.5	+ 1.7
56	B. D.+39° 1013	9	24 42.34	+0.11	+2.44	4 24 44.89	− 2.60	359 4 52.80	14.35	0.93	+39 47 51.6	50.4	+ 0.4

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
17 0 8	75.27	−4.5	−4.9
0 44	75.31	−4.7	−4.9
1 29	75.33	−5.0	−5.2
2 25	75.34	−5.2	−5.4
3 4	.....	...	−5.4
3 24	75.32	−5.5	−5.6
4 22	75.32	−5.5	−5.8

Bisections are made at II and V, except as noted below.

I.	Bisections at c_5, c_1.
4, 29, 39, 49, 55.	Bisections at V, III.
5, 7, 10, 11, 14, 16, 19, 24, 28, 31, 34, 35, 37, 38, 40, 45, 46, 47, 50, 56.	Bisections at III, V.
18.	Bisections at c_1, c_2, c_4, c_5.

Notes.

1–28.	Seeing 2–3.
7.	Circle A read on 26′ division.
9, 13, 54.	Observed head north.
14, 16, 56.	Observed head south.
29–56.	Seeing 3.
37.	Circle A read on 18′ division.

Adopted Zenith Point Corrections.

	A. ′ ″	B. ″
1–56, from nadir......	+2 29.51	*

*Interpolated from diagram.

1901 DECEMBER 18. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	η	Ceti	9	3 38.32	−0.08	+**2.29**	1 3 40.58	− 0.93	49 33 38.00	56.70	72.19	−10 42 7.0	6.6	+ 1.5
2	f	Piscium	9	12 43.39	0.05	**2.38**	1 12 45.67	1.12	35 46 0.38	20.90	44.40	+ 3 5 58.3	56.9	− 2.8
3	θ	Ceti	9	19 6.27	−0.08	**2.33**	1 19 8.52	1.04	47 32 56.18	15.88	67.34	− 8 41 20.4	21.0	+ 1.3
4	α	Ursæ Minoris	7	24 12.36	+2.70	2.33	1 24 17.39	53.07	310 6 32.15	51.90	72.91	+88 47 23.4	23.1	−19.6
5	40	Cassiopeiæ	9	30 42.22	+0.17	2.32	1 30 44.71	4.35	326 20 39.28	58.50	40.95	72 32 44.5	44.4	18.3
6	ν	Piscium	9	36 18.79	−0.05	+**2.34**	1 36 21.06	− 1.25	33 52 26.18	45.92	41.44	+ 4 59 35.4	34.8	− 2.5
7	ε	Sculptoris	9	41 2.32	−0.12	+2.32	1 41 4.52	− 1.04	64 23 11.70	.....	128.20	−25 32 36.7	....	+ 7.0
8	ζ	Ceti	9	46 36.29	0.08	**2.34**	1 46 38.53	1.17	49 40 42.10	0.00	72.68	−10 49 11.6	10.5	+ 2.8
9	β	Arietis	9	49 12.72	−0.02	**2.28**	1 49 15.02	1.53	18 32 28.70	48.48	20.75	+20 19 53.5	52.9	− 6.4
10	50	Cassiopeiæ	9	55 5.38	+0.16	2.31	1 55 7.85	4.63	326 56 17.25	36.92	40.11	+71 57 5.7	5.2	−16.4
11	μ	Fornacis	8	8 34.57	−0.14	2.31	2 8 36.74	1.16	70 1 2.52	20.85	168.70	−31 11 8.1	7.3	+ 8.9
12	γ	Trianguli	9	11 28.74	0.00	+**2.31**	2 11 31.04	− 1.91	5 28 49.20	6.88	5.97	+33 23 47.7	49.3	− 8.6
13	κ	Fornacis	9	18 2.60	−0.12	+2.30	2 18 4.78	− 1.25	63 6 29.42	50.38	121.40	−24 15 47.6	49.5	+ 7.4
14	ι	Cassiopeiæ	9	21 0.53	+0.12	2.30	2 21 2.95	− 4.04	331 55 18.80	39.75	32.89	+66 57 57.0	55.2	−13.8
15	5	Ursæ Minoris S. P.	9	27 36.33	−0.22	2.30	14 27 38.41	+ 5.32	295 2 33.78	54.38	131.20	+76 7 39.2	40.7	+13.6
16	δ	Ceti	9	34 26.76	−0.06	**2.30**	2 34 29.00	− 1.48	38 57 32.48	51.42	50.00	0 5 39.4	39.2	+ 1.3
17	θ	Persei	9	37 30.36	+0.04	2.30	2 37 32.70	2.61	350 3 51.82	11.92	10.78	+48 49 2.0	1.0	− 9.8
18	π	Ceti	9	39 26.70	−0.09	+**2.26**	2 39 28.90	− 1.40	53 7 50.30	9.92	82.32	−14 16 29.4	30.0	+ 5.2
19	41	Arietis	9	44 12.40	−0.01	+**2.31**	2 44 14.68	− 1.92	12 0 59.92	18.55	13.20	+26 51 29.8	30.4	− 5.0
20	τ	Persei	8	47 18.77	+0.05	2.29	2 47 21.11	2.87	346 31 5.02	25.42	14.77	52 21 52.7	51.4	9.6
21	47	H. Cephei	9	53 8.28	0.29	2.29	2 53 10.86	8.55	319 51 30.10	48.50	52.00	79 2 4.6	5.3	11.6
22	ρ	Persei	9	58 53.59	0.02	**2.30**	2 58 55.90	2.29	0 24 56.82	17.22	0.49	38 27 45.5	44.4	6.3
23	β	Persei	9	1 47.44	0.02	2.29	3 1 49.75	2.39	358 17 56.75	16.20	1.79	40 34 48.1	47.7	6.5
24	48	H. Cephei	9	7 57.41	+0.25	+2.29	3 7 59.95	− 7.72	321 30 52.28	12.10	49.05	+77 22 39.5	38.8	−10.0
25	1	H. Ursæ Minoris S. P.	9	13 25.01	−0.13	+2.29	15 13 27.17	+ 3.52	286 39 7.42	26.58	203.50	+67 43 0.6	0.7	+ 8.4
26	α	Persei	9	17 19.83	+0.04	2.29	3 17 22.16	− 2.86	349 22 1.82	21.18	11.56	49 30 52.7	52.5	− 6.7
27	ο	Tauri	9	19 31.83	−0.04	**2.27**	3 19 34.08	1.77	30 11 4.08	23.25	36.02	8 41 2.9	2.9	+ 0.9
28	ξ	Tauri	8	21 50.91	0.04	**2.32**	3 21 53.16	1.78	29 28 40.65	58.48	35.02	9 23 27.4	28.7	0.9
29	f	Tauri	9	25 27.19	0.03	**2.35**	3 25 29.45	1.83	26 16 8.78	29.30	30.58	+12 36 3.7	2.3	0.4
30	ε	Eridani	9	28 18.27	−0.08	+**2.22**	3 28 20.48	− 1.64	48 39 1.12	.....	70.29	− 9 47 28.3	....	+ 5.0
31	11	H¹. Camelop	9	33 40.38	+0.10	+2.29	3 33 42.77	− 4.05	335 59 5.92	26.25	27.50	+62 54 4.5	3.3	− 6.5
32	δ	Persei	9	35 57.12	0.04	2.30	3 35 59.46	2.82	351 24 20.82	39.30	9.31	47 28 31.5	32.1	4.6
33	5	H. Camelop	9	40 3.47	0.16	2.30	3 40 5.93	5.58	327 51 25.20	44.42	38.81	71 1 56.5	56.4	6.4
34	ε	Persei	9	51 16.72	+0.02	2.30	3 51 19.04	2.53	359 9 4.25	23.28	0.87	+39 43 39.6	39.7	− 2.4
35	γ	Eridani	9	53 26.90	−0.09	**2.30**	3 53 29.11	1.69	52 38 41.00	1.00	81.06	−13 47 18.9	19.8	+ 6.3
36	ν	Tauri	9	57 56.14	−0.05	+**2.30**	3 57 58.39	− 1.85	33 9 1.28	20.18	40.49	+ 5 43 1.3	1.5	+ 3.2
37	γ	Tauri	.	.. ..	....	....	4 14	....	23 28 48.80	8.78	26.96	+15 23 27.2	26.4	+ 2.4
38		B. D.+35° 860	9	17 8.48	+0.01	+2.31	4 17 10.80	− 2.45	3 12 13.52	33.32	3.52	35 40 26.0	25.1	0.1
39		B. D.+39° 1013	9	24 42.45	+0.04	+2.32	4 24 44.81	− 2.61	359 4 52.12	12.65	0.95	+39 47 51.9	50.4	+ 0.3

1901 DECEMBER 21. CLAMP EAST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED TO 1902.0
40	12	Canum Venat	9	51 24.65	−0.05	[+**1.88**]	12 51	.....	0 2	.....	.....	+38 51	....	....
41	20	Canum Venat	9	13 6.65	−0.05	[**1.96**]	13 13	.....	357 47	.....	.....	41 6	....	....
42	α	Ursæ Minoris S. P.	9	24 12.06	+0.71	[+**1.59**]	1 24	.....	307 41 30.81	48.60	81.90	+88 47 23.1	24.0	−20.2

1901 DECEMBER 22. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED TO 1902.0
43	6	B. Ursæ Minoris S. P.	5	13 59.04	+3.06	+1.95	12 14 4.05	+18.75	307 8 15.00	33.18	79.69	+88 14 11.3	11.8	+24.0
44	44	Piscium	9	20 21.56	−0.06	**1.97**	0 20 23.45	− 0.75	37 28 3.92	21.65	46.46	+ 1 23 53.2	53.2	− 3.8
45	12	Ceti	9	25 1.10	0.06	**1.95**	0 25 2.99	0.73	43 21 39.28	58.22	57.20	− 4 29 52.9	54.1	1.6
46	ζ	Cassiopeiæ	9	31 30.31	0.15	1.95	0 31 32.11	1.63	345 31 10.50	29.10	15.59	+53 21 48.5	47.6	19.1
47	δ	Andromedæ	9	34 4.43	0.09	**1.96**	0 34 6.29	1.16	8 32 50.85	8.40	9.15	30 19 43.3	43.6	13.2
48	21	Cassiopeiæ	9	39 11.94	−0.35	+1.95	0 39 13.54	−3.39	324 25 55.82	14.60	43.20	+74 27 30.6	29.5	−22.2

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	cm.	°	°
18	1	7	75.82	− 5.9	− 6.2
	2	0	.....	...	− 6.8
	2	14	75.90	− 6.5	...
	2	41	.....	...	− 7.0
	3	10	75.85	− 6.7	− 7.2
	3	44	75.92	− 6.7	− 7.3
	4	20	75.91	− 6.8	− 7.6
21	13	19	76.11	−12.5	−13.1
22	0	1	75.56	− 2.6	− 3.0

Bisections are made at II and V, except as noted below.

1.	Bisections at II, VI.
7, 30.	Bisections at II.
4.	Bisections at c_1, c_2, c_4, c_5.
5, 10, 11, 14, 17, 20, 21, 23, 24, 26, 31, 32, 33, 34, 39, 44, 46, 48.	Bisections at III, V.
15, 25.	Bisections at V, III.
38.	Bisections at III, VI.
42.	Bisections at c_5, c_4, c_2, c_1.
43.	Bisections at c_5, c_1.

Notes.

1–34, 40–42.	Seeing 3.
7, 30.	Clouds; faint; poor.
23.	Circle A read on 18′ division.
32, 34.	First bisection doubtful.
35–39.	Seeing 2–3
38	Observed head south; last bisection doubtful.
39.	Observed head north.
43.	Clouds; rather poor.
47.	Clouds.
48.	Clouds; last bisection poor.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1–39, from nadir	+2	29.91	10.80
42, from nadir	2	27.61	10.46
43–48, from nadir { 23h 45m.	2	29.06	11.28
43–48, from nadir { 1 15	+2	29.85	12.20

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	ζ Andromedæ	9	42 7.81	−0.08	**+1.93**	0 42 9.68	− 1.12	15 8 13.62	32.35	16.42	+23 44 13.3	13.3	−10.6
2	γ Cassiopeiæ	9	50 47.80	−0.18	+1.95	0 50 49.57	− 2.16	338 41 35.70	53.75	23.54	+60 11 31.1	30.7	−19.7

1901 DECEMBER 23. CLAMP EAST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
3	12 Canum Venat....	9	51 25.01	−0.11	[**+1.65**]	12 51	.....	0 2	.....	.....	+38 51	....	....
4	ε Virginis	9	57 16.48	−0.07	[**1.74**]	12 57	.....	27 23	.....	.....	11 29	....	....
5	α Ursæ Minoris S. P.	9	24 6.72	+4.31	[**+1.80**]	1 24	.....	307 41 24.58	42.95	76.97	+88 47 24.3	24.6	−20.5

1901 DECEMBER 26. CLAMP EAST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
6	ε Virginis	9	57 17.11	−0.06	[**+1.19**]	12 57	.....	27 23	.....	.....	+11 29	....	....
7	α Ursæ Minoris S. P.	7	24 6.47	+3.08	[**0.61**]	1 24	.....	307 41 24.15	42.44	76.49	88 47 25.4	25.2	−21.1
8	η Bootis	9	49 59.89	−0.07	[**+1.21**]	13 50	.....	19 59	.....	.....	+18 53	....	....

1901 DECEMBER 27. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
9	6 B. Ursæ Minoris S. P.	9	14 6.36	+1.53	+1.19	12 14 9.08	+15.13	307 8 12.20	31.70	78.45	+88 14 11.3	11.4	+24.5
10	44 Piscium	9	20 22.26	−0.07	**1.23**	0 20 23.38	− 0.70	37 28 3.62	23.20	45.76	+ 1 23 52.8	52.5	− 3.4
11	12 Ceti	9	25 1.77	−0.07	**1.23**	0 25 2.89	− 0.67	43 21 38.52	58.78	56.36	− 4 29 52.7	53.7	− 1.2
12	κ Draconis S. P	9	29 15.94	+0.14	1.19	12 29 17.27	+ 0.99	289 14 51.62	11.30	168.90	+70 19 20.3	20.7	+22.9
13	ζ Cassiopeiæ	8	31 30.87	−0.09	1.19	0 31 31.97	− 1.51	345 31 8.92	29.28	15.37	53 21 48.5	47.4	−19.2
14	δ Andromedæ	9	34 5.14	−0.07	**+1.15**	0 34 6.26	− 1.08	8 32 50.72	9.82	9.02	+30 19 42.3	42.5	−12.9
15	21 Cassiopeiæ	9	39 12.20	−0.18	+1.19	0 39 13.21	− 3.05	324 25 53.70	14.98	42.62	+74 27 30.8	28.8	−22.5
16	ζ Andromedæ	9	42 8.47	0.07	**1.20**	0 42 9.59	1.06	15 8 12.32	32.10	16.21	23 44 13.5	13.0	10.4
17	B. D. +37° 151 ..	9	45 49.74	0.07	1.19	0 45 50.86	1.30	1 21 49.95	9.05	1.47	37 30 50.7	50.8	14.7
18	γ Cassiopeiæ	9	50 48.21	0.10	1.19	0 50 49.30	2.01	338 41 35.25	53.48	23.24	60 11 30.0	31.0	19.9
19	43 H. Cephei	9	55 26.99	0.63	1.19	0 55 27.55	10.95	313 9 28.62	48.85	63.55	+85 44 16.0	15.0	−22.6
20	η Ceti	9	3 39.33	−0.08	**+1.18**	1 3 40.44	− 0.83	49 33 40.05	58.75	70.15	−10 42 8.0	7.6	+ 2.3
21	B. D. +36° 201 ..	9	5 40.07	−0.07	+1.19	1 5 41.19	− 1.45	1 40 15.78	35.62	1.79	+37 12 24.6	23.8	−13.6
22	B. D. +40° 249 ..	9	7 45.01	0.07	1.19	1 7 46.13	1.54	358 9 30.25	48.95	1.88	40 43 13.5	14.1	14.5
23	*f* Piscium	9	12 44.47	0.07	**1.22**	1 12 45.59	1.02	35 46 1.10	21.15	43.13	3 5 57.9	57.0	2.1
24	B. D. +42° 288 ..	9	16 29.98	0.07	1.19	1 16 31.10	1.67	355 48 13.92	34.68	4.34	+43 4 32.3	30.8	−14.7
25	θ Ceti	9	19 7.32	0.08	**1.18**	1 19 8.43	0.94	47 32 57.65	17.88	65.42	− 8 41 20.8	22.1	+ 2.2
26	α Ursæ Minoris....	5	24 11.20	−2.23	+1.19	1 24 10.16	−45.63	310 6 28.28	47.53	70.84	+88 47 24.6	24.1	−21.2
27	40 Cassiopeiæ	9	30 43.38	−0.16	+1.19	1 30 44.41	− 3.88	326 20 35.85	54.45	39.77	+72 32 45.8	46.2	−19.4
28	ν Piscium	9	36 19.88	0.07	**1.19**	1 36 21.00	1.17	33 52 27.82	47.75	40.24	+ 4 59 34.1	33.1	− 1.9
29	ε Sculptoris	9	41 3.20	0.09	1.19	1 41 4.30	0.92	64 23 16.20	36.25	124.50	−25 32 38.4	39.6	+ 8.2
30	ζ Ceti.............	9	46 37.36	0.08	**1.18**	1 46 38.47	1.08	49 40 44.40	2.28	70.63	−10 49 12.8	11.8	+ 3.8
31	β Arietis	9	49 13.81	0.07	**1.15**	1 49 14.93	1.44	18 32 29.45	49.28	20.16	+20 19 52.5	51.6	− 6.2
32	50 Cassiopeiæ	9	55 6.57	−0.16	+1.19	1 55 7.60	− 4.23	326 56 13.40	32.88	38.98	+71 57 7.5	6.9	−17.9
33	μ Fornacis	9	8 35.52	−0.10	+1.19	2 8 36.61	− 1.04	70 1 7.55	25.10	164.10	−31 11 9.3	8.2	+10.4
34	γ Trianguli	9	11 29.85	0.10	**1.21**	2 11 30.94	1.82	5 28 48.18	6.78	5.81	+33 23 48.0	48.3	− 8.9
35	κ Fornacis	9	18 3.55	0.09	1.19	2 18 4.65	1.15	63 6 33.62	53.05	118.20	−24 15 49.5	50.3	+ 8.7
36	ι Cassiopeiæ	9	21 1.75	−0.12	1.19	2 21 2.82	− 3.78	331 55 15.50	34.68	32.01	+66 57 58.5	58.1	−15.3
37	5 Ursæ Minoris S. P.	7	27 37.54	+0.20	1.19	14 27 38.93	+ 4.66	295 2 25.88	46.68	127.70	+76 7 35.9	37.8	+16.1
38	δ Ceti	9	34 27.79	−0.07	**+1.22**	2 34 28.91	− 1.42	38 57 33.65	52.05	48.65	− 0 5 40.1	39.8	+ 2.2
39	θ Persei	9	37 31.52	−0.08	+1.19	2 37 32.63	− 2.50	350 3 49.18	8.52	10.49	+48 49 3.4	2.7	−10.8
40	π Ceti.............	9	39 27.70	0.08	**1.17**	2 39 28.81	1.32	53 7 53.28	13.42	80.13	−14 16 31.2	32.7	+ 6.4
41	41 Arietis	9	44 13.57	0.07	**1.14**	2 44 14.69	1.86	12 0 59.30	17.65	12.84	+26 51 29.9	30.3	− 5.1
42	τ Persei	9	47 19.97	0.08	1.19	2 47 21.08	2.75	346 31 2.05	21.85	14.37	52 21 54.6	53.2	10.8
43	47 H. Cephei	9	53 9.46	0.25	1.19	2 53 10.40	8.02	319 51 25.08	43.45	50.59	79 2 7.3	7.5	13.7
44	ρ Persei	9	58 54.79	−0.07	**+1.13**	2 58 55.91	2.23	0 24 54.85	15.10	0.48	+38 27 46.6	45.1	− 7.0

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
22 0 44	75.52	−2.5	−2.9
1 5	75.51	−2.5	−2.8
23 13 16	74.98	−1.3	−1.2
13 40	.....	...	−0.9
26 13 19	75.54	+2.7	+2.4
27 0 3	76.14	+4.5	+3.3
0 44	76.15	+3.6	+2.7
1 36	76.20	+3.0	+2.2
2 14	76.31	+2.3	+1.5

Bisections are made at II and V, except as noted below.

2, 13, 15, 17, 18, 19, 21, 27, 32, 36, 39, 42, 43. } Bisections at III, V.
5, 7. Bisections at c_5, c_4, c_2, c_1.
9. Bisections at c_5, c_1.
12. Bisections at V, III.
26. Bisections at c_1, c_2, c_4, c_5.
37. Bisections at d_1, III.

Notes.

3–5. Seeing 3.
6–8. Seeing 2.
9–44. Seeing 3–4.
17, 21. Observed head south.
22, 24. Observed head north.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1– 2, from nadir { 23h 45m.	+2	29.06	11.28
1 15..	2	29.85	12.20
5, from nadir	2	30.10	11.71
7, from nadir	2	31.14	12.36
9–44, from nadir	+2	20.82	*

*Interpolated from diagram.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	β	Persei........	9	1 48.61	−0.07	+1.19	3 1 49.73	− 2.32	358 17 54.50	13.68	1.74	+40 34 49.4	48.8	− 7.3
2	48	H. Cephei.......	9	7 58.76	−0.22	1.19	3 7 59.73	− 7.32	321 30 47.78	6.35	47.69	77 22 41.7	41.7	−12.3
3	1	H. Ursæ Minoris S. P.	9	13 26.05	+0.13	1.19	15 13 27.37	+ 3.14	286 38 57.68	16.42	197.80	67 42 57.5	57.7	+11.3
4	α	Persei..........	9	17 21.06	−0.08	1.19	3 17 22.17	− 2.79	349 21 58.62	17.90	11.23	49 30 54.7	53.9	− 7.8
5	ο	Tauri............	9	19 32.87	0.07	**1.22**	3 19 33.99	1.73	30 11 5.22	23.18	34.99	8 41 1.9	2.5	+ 1.5
6	ξ	Tauri............	9	21 52.02	−0.07	**+1.21**	3 21 53.14	− 1.75	29 28 41.10	58.68	34.00	+ 9 23 27.0	28.0	+ 1.5
7	*f*	Tauri............	9	25 28.36	−0.07	**+1.19**	3 25 29.48	− 1.80	26 16 8.75	29.22	29.69	+12 36 3.7	1.7	+ 0.9
8	ε	Eridani..........	9	28 19.22	0.08	**1.23**	3 28 20.33	1.60	48 39 3.10	20.55	68.22	− 9 47 29.1	28.1	+ 6.4
9	11	H^1. Camelop.....	9	33 41.72	0.11	1.19	3 33 42.80	3.96	335 59 1.95	21.38	26.67	+62 54 6.7	5.7	− 8.4
10	δ	Persei..........	9	35 58.38	0.08	1.19	3 35 59.49	2.78	351 24 17.45	36.30	9.02	47 28 33.7	33.2	5.9
11	5	H. Camelop......	9	40 4.85	0.15	1.19	3 40 5.89	5.42	327 51 20.92	39.22	37.62	+71 1 58.6	58.7	− 8.6
12	τ^6	Eridani..........	9	42 38.47	−0.09	+1.19	3 42 39.57	− 1.59	62 23 17.48	36.18	114.40	−23 32 29.7	30.0	+ 9.7
13	ζ	Ursæ Minoris S. P.	7	47 24.08	+0.23	+1.19	15 47 25.50	+ 6.97	297 0 16.45	36.08	117.00	+78 5 37.3	37.9	+ 8.7
14	ε	Persei..........	4	51 17.86	−0.07	1.19	3 51 18.98	− 2.51	359 9 2.65	20.45	0.85	+39 43 40.4	40.6	− 3.4
15	γ	Eridani..........	9	53 27.96	0.08	**1.21**	3 53 29.07	1.67	52 38 44.02	3.55	78.56	−13 47 20.3	21.6	+ 7.8
16	ν	Tauri............	9	57 57.25	0.07	**1.20**	3 57 58.37	1.84	33 9 2.82	21.55	39.23	+ 5 42 60.1	59.7	3.9
17	γ	Tauri............	9	14 13.84	0.07	**1.16**	4 14 14.96	2.02	23 28 48.70	8.48	26.11	15 23 27.3	25.8	+ 2.8
18		B. D.+35° 860...	9	17 9.73	−0.07	+1.19	4 17 10.85	− 2.47	3 12 11.95	31.98	3.40	+35 40 26.6	25.0	− 0.5
19	η	Ursæ Minoris S. P.	9	20 14.28	+0.20	+1.19	16 20 15.67	+ 6.10	294 53 37.05	57.72	128.30	+75 58 46.3	48.7	+ 5.2
20		B. D.+39° 1013..	9	24 43.73	−0.07	+1.19	4 24 44.85	− 2.63	359 4 50.78	10.65	0.92	+39 47 52.3	50.6	− 0.6

1901 DECEMBER 31. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
21	6	B. Ursæ Minoris S. P.	9	14 8.44	+1.66	+0.54	12 14 10.64	+12.06	307 8 11.20	30.45	76.58	+88 14 10.7	11.3	+24.6
22	44	Piscium..........	9	20 22.91	−0.06	**0.52**	0 20 23.38	− 0.65	37 28 5.90	24.58	44.64	+ 1 23 53.0	53.0	− 3.1
23	12	Ceti..............	9	25 2.45	−0.06	**0.49**	0 25 2.91	− 0.62	43 21 43.05	1.82	54.96	− 4 29 54.4	54.5	− 0.9
24	κ	Draconis S. P....	9	29 17.08	+0.15	0.52	12 29 17.75	+ 0.69	289 14 46.88	6.30	164.70	+70 19 18.4	19.1	+23.4
25	ζ	Cassiopeiæ......	7	31 31.40	−0.09	0.51	0 31 31.82	− 1.41	345 31 10.82	30.40	14.98	53 21 47.7	46.7	−19.1
26	δ	Andromedæ.....	9	34 5.68	−0.06	**+0.54**	0 34 6.13	− 1.02	8 32 51.58	10.80	8.79	+30 19 43.0	42.6	−12.8
27	21	Cassiopeiæ......	9	39 12.63	−0.19	+0.50	0 39 12.94	− 2.78	324 25 53.95	14.55	41.51	+74 27 30.8	28.9	−22.7
28	ζ	Andromedæ.....	9	42 9.09	0.06	**0.51**	0 42 9.53	1.00	15 8 15.35	34.52	15.78	23 44 12.2	11.9	10.1
29		B. D.+37° 151...	9	45 50.37	0.07	0.50	0 45 50.80	1.23	1 21 51.32	10.48	1.43	37 30 50.5	50.2	14.5
30	γ	Cassiopeiæ......	9	50 48.77	0.10	0.49	0 50 49.16	1.88	338 41 35.12	53.78	22.64	60 11 30.9	30.9	19.9
31	43	H. Cephei.......	9	55 26.18	0.69	0.49	0 55 25.98	9.86	313 9 27.05	47.75	61.90	+85 44 17.3	15.3	−23.0
32	η	Ceti..............	9	3 39.99	−0.06	**+0.45**	1 3 40.42	− 0.78	49 33 43.95	3.02	68.33	−10 42 8.8	9.2	+ 2.6
33		B. D.+36° 201...	9	5 40.69	−0.07	+0.48	1 5 41.10	− 1.39	1 40 17.22	36.28	1.74	+37 12 24.3	24.1	−13.5
34		B. D.+40° 249...	9	7 45.68	0.07	0.48	1 7 46.09	1.47	358 9 31.85	50.55	1.83	40 43 13.4	13.3	14.4
35	*f*	Piscium..........	9	12 45.14	0.06	**0.49**	1 12 45.56	0.97	35 46 5.00	24.55	42.01	3 5 56.4	55.6	1.8
36		B. D.+42° 288...	9	16 30.70	0.07	0.48	1 16 31.11	1.60	355 48 16.68	36.68	4.23	+43 4 30.9	29.6	−14.7
37	θ	Ceti..............	9	19 7.98	0.06	**0.45**	1 19 8.40	0.89	47 33 1.65	20.48	63.72	− 8 41 21.9	22.1	+ 2.6
38	α	Ursæ Minoris....	5	24 7.00	−2.42	+0.48	1 24 5.06	−41.46	310 6 27.12	45.91	69.01	+88 47 25.2	24.7	−21.8
39	40	Cassiopeiæ......	9	30 43.83	−0.17	+0.48	1 30 44.14	− 3.66	326 20 35.08	54.85	38.75	+72 32 46.8	45.7	−19.8
40	ν	Piscium..........	9	36 20.49	0.06	**0.52**	1 36 20.91	1.12	33 52 31.28	50.08	39.23	+ 4 59 32.8	32.7	− 1.6
41	ε	Sculptoris.......	9	41 3.87	0.06	0.48	1 41 4.29	0.86	64 23 21.05	41.80	121.39	−25 32 38.9	41.1	+ 8.7
42	ζ	Ceti..............	9	46 37.98	0.06	**0.49**	1 46 38.40	1.03	49 40 47.65	5.72	68.83	−10 49 13.1	12.5	+ 4.2
43	β	Arietis...........	9	49 14.48	0.06	**0.42**	1 49 14.90	1.39	18 32 31.30	50.80	19.65	+20 19 52.3	51.5	− 6.1
44	50	Cassiopeiæ......	9	55 7.04	−0.16	+0.48	1 55 7.36	− 4.02	326 56 12.68	32.90	37.99	+71 57 8.4	6.8	−18.3
45	μ	Fornacis.........	9	8 36.22	−0.07	+0.48	2 8 36.63	− 0.99	70 1 15.32	32.28	160.00	−31 11 11.9	10.3	+11.0
46	γ	Trianguli........	9	11 30.51	0.06	**0.46**	2 11 30.93	1.77	5 28 48.82	8.12	5.66	+33 23 48.6	48.1	− 9.0
47	κ	Fornacis.........	9	18 4.23	0.06	0.48	2 18 4.65	1.10	63 6 38.72	58.55	115.26	−24 15 50.6	51.9	+ 9.3
48	ι	Cassiopeiæ......	9	21 2.35	−0.13	0.48	2 21 2.70	− 3.64	331 55 15.38	35.68	31.22	+66 57 58.9	57.3	−15.8
49	5	Ursæ Minoris S. P.	9	27 38.64	+0.21	0.48	14 27 39.33	+ 4.34	295 2 23.20	44.02	124.69	+76 7 35.0	37.1	+17.1
50	δ	Ceti..............	9	34 28.47	−0.06	**+0.50**	2 34 28.89	− 1.39	38 57 36.15	55.35	47.51	− 0 5 40.5	41.0	+ 2.5
51	θ	Persei...........	9	37 32.17	−0.08	+0.48	2 37 32.57	− 2.44	350 3 50.25	9.60	10.24	+48 49 3.1	2.4	−11.1
52	π	Ceti..............	9	39 28.37	0.06	**0.44**	2 39 28.79	1.28	53 7 56.08	16.38	78.27	−14 16 31.1	32.8	+ 6.9
53	41	Arietis...........	9	44 14.23	0.06	**0.44**	2 44 14.65	1.83	12 1 0.30	19.20	12.55	+26 51 30.1	30.0	− 5.1
54	τ	Persei...........	9	47 20.62	0.08	0.48	2 47 21.02	2.69	346 31 2.68	22.52	14.05	52 21 54.4	53.2	11.3
55	47	H. Cephei.......	9	53 9.80	0.27	0.48	2 53 10.01	7.74	319 51 24.22	42.22	49.49	79 2 8.0	8.7	14.6
56	ρ	Persei...........	9	58 55.43	−0.07	**+0.46**	2 58 55.84	− 2.20	0 24 56.18	15.58	0.47	+38 27 46.2	45.7	− 7.2

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	cm.	°	°
27	3	4	76.28	+2.0	+1.4
	3	38	76.26	+2.3	+1.9
	4	22	76.29	+2.0	+2.1
31	0	9	75.37	+7.7	+6.9
	0	44	75.42	+7.1	+7.2
	1	38	75.52	+6.6	+6.6
	2	14	75.57	+6.0	+5.8
	2	57	75.63	+5.3	+4.8

Bisections are made at II and V, except as noted below.

1, 2, 4, 9, 10, 11, 12, 20, 27, 30, 31, 34, 36, 39, 44, 48, 51, 54, 55.	Bisections at III, V.
3, 19, 24, 49.	Bisections at V, III.
13.	Bisections at IV, III.
14.	Bisections at IV, VI.
21.	Bisections at c_5, c_1.
25.	Bisections at IV, V.
38.	Bisections at c_1, c_2, c_4, c_5.

Notes.

1–20.	Seeing 3–4.
4.	Circle A read on 22′ division.
8, 12.	Unsteady.
13.	Second bisection 20ˢ late.
18, 29, 33.	Observed head north.
20, 34, 36.	Observed head south.
21–26.	Seeing 1–2; stars woolly and unsteady.
24.	Poor.
27–56.	Seeing 2–3.
51.	Last bisection doubtful.
53.	First bisection doubtful.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–20, from nadir......	+2 30.82	*
21–56, from nadir......	*	*

* Interpolated from diagram.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	β	Persei	9	1 49.27	−0.07	+0.48	3 1 49.68	− 2.28	358 17 54.52	14.20	1.70	+40 34 50.2	49.2	− 7.5
2	48	H. Cephei	9	7 59.20	−0.23	0.48	3 7 59.45	− 7.11	321 30 47.30	5.72	46.72	77 22 42.1	42.4	−13.1
3	1	H. Ursæ Minoris S. P.	9	13 27.13	+0.14	0.48	15 13 27.75	+ 2.96	286 38 52.25	12.38	194.00	67 42 55.0	56.4	+12.6
4	α	Persei	9	17 21.68	−0.08	0.48	3 17 22.08	− 2.75	349 21 58.75	17.65	11.02	49 30 55.2	55.0	− 8.3
5	ο	Tauri	9	19 33.55	0.06	**0.51**	3 19 33.97	1.71	30 11 7.12	25.40	34.34	8 41 1.6	2.0	+ 1.8
6	ξ	Tauri	9	21 52.68	−0.06	**+0.52**	3 21 53.10	− 1.73	29 28 42.85	59.98	33.38	+ 9 23 26.7	28.3	+ 1.7
7	f	Tauri	9	25 29.01	−0.06	**+0.51**	3 25 29.43	− 1.78	26 16 10.22	30.82	29.16	+12 36 3.6	1.7	+ 1.1
8	ε	Eridani	9	28 19.94	0.06	**0.46**	3 28 20.36	1.57	48 39 6.72	24.08	67.03	− 9 47 30.7	29.4	+ 6.9
9	11	H$^{\mathrm{I}}$. Camelop	9	33 42.28	0.11	0.48	3 33 42.65	3.89	335 59 2.00	21.62	26.24	+62 54 7.1	6.1	− 9.1
10	δ	Persei	9	35 59.00	0.08	0.48	3 35 59.40	2.74	351 24 17.45	35.82	8.88	47 28 34.3	34.6	6.3
11	5	H. Camelop	9	40 5.34	0.16	0.48	3 40 5.66	5.31	327 51 20.68	39.72	37.02	+71 1 59.1	58.7	− 9.5
12	τ^6	Eridani	9	42 39.08	−0.06	+0.48	3 42 39.50	− 1.56	62 23 19.55	40.50	112.59	−23 32 29.1	31.4	+10.5
13	ζ	Ursæ Minoris S. P.	8	47 25.49	+0.25	+0.48	15 47 26.22	+ 6.71	297 0 13.08	33.80	115.10	+78 5 34.8	36.7	+ 9.9
14	ε	Persei	9	51 18.62	−0.07	0.48	3 51 19.03	− 2.49	359 9 2.52	21.20	0.83	+39 43 41.2	41.2	− 3.7
15	γ	Eridani	9	53 28.71	0.06	**0.42**	3 53 29.13	1.65	52 38 47.50	7.20	77.28	−13 47 21.8	22.8	+ 8.5
16	ν	Tauri	9	57 57.90	0.06	**0.53**	3 57 58.32	1.83	33 9 4.00	22.42	38.59	+ 5 43 0.3	0.6	+ 4.2
17	γ	Tauri	9	14 14.49	0.06	**0.49**	4 14 14.91	2.01	23 28 50.90	10.85	25.68	15 23 26.2	25.0	+ 2.9
18		B. D. +35° 860	9	17 10.42	−0.06	+0.48	4 17 10.84	− 2.45	3 12 12.52	32.75	3.34	+35 40 26.9	25.4	− 0.8
19	η	Ursæ Minoris S. P.	9	20 15.26	+0.21	+0.48	16 20 15.95	+ 5.92	294 53 34.85	54.90	126.21	+75 58 45.5	46.9	+ 6.5
20		B. D. +39° 1013	9	24 44.41	−0.07	+0.48	4 24 44.82	− 2.62	359 4 50.60	11.25	0 90	+39 47 52.8	51.1	− 0.9

1902 JANUARY 1. CLAMP EAST.

HAMMOND, OBSERVER. NO ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
21	α	Arietis	9	1 39.96	−0.04	**+0.39**	2 1 40.27	− 1.51	15 52 21.28	.....	17.56	+23 0 4.1	....	− 6.4
22	4	Ursæ Minoris S. P.	9	9 8.69	0.06	0.35	14 9 8.98	+ 4.57	296 54 52.98	.....	120.67	+78 0 9.3	....	+18.8
23	κ	Fornacis	9	18 4.43	0.10	0.35	2 18 4.68	− 1.09	63 6 32.58	.....	121.28	−24 15 50.9	....	9.4
24	5	Ursæ Minoris S. P.	9	27 38.95	−0.05	0.35	14 27 39.25	+ 4.26	295 2 28.65	.....	131.13	+76 7 34.6	....	+17.3
25	142	H$^{\mathrm{I}}$. Cephei	9	33 45.71	+0.09	0.35	2 33 46.15	− 8.63	317 51 21.10	.....	55.74	+81 2 17.6	....	−16.5
26	β	Fornacis	9	45 0.34	−0.12	+0.35	2 45 0.57	− 1.20	71 38 52.25	.....	184.71	−32 49 14.0	....	+12.1
27	β	Ursæ Minoris S. P.	9	50 54.54	−0.04	+0.35	14 50 54.85	+ 4.15	293 28 9.70	.....	141.19	+74 33 6.3	....	+15.3
28	α	Ceti	9	57 10.62	0.06	**0.31**	2 57 10.91	− 1.54	35 9 40.55	.....	43.59	3 42 18.8	....	2.3
29	57	B. Ursæ Minoris S. P.	9	8 6.22	0.36	0.35	15 8 6.21	+32.69	306 30 28.20	.....	83.26	87 36 22.0	....	14.1
30	ο	Tauri	9	19 33.70	−0.05	**+0.35**	3 19 34.00	− 1.71	30 11 5.95	.....	36.06	+ 8 41 1.0	....	+ 1.8

1902 JANUARY 3. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
31	6	B. Ursæ Minoris S. P.	8	14 13.99	−0.75	+0.08	12 14 13.32	+10.02	307 8 15.65	35.65	80.78	+88 14 11.7	11.9	+24.6
32	44	Piscium	9	20 23.29	0.07	**0.11**	0 20 23.30	− 0.61	37 28 2.45	22.48	47.11	+ 1 23 53.5	53.1	− 2.9
33	12	Ceti	9	25 2.88	0.08	**0.04**	0 25 2.87	− 0.58	43 21 38.92	59.55	58.03	− 4 29 53.8	54.9	− 0.7
34	κ	Draconis S. P.	9	29 17.61	−0.05	0.06	12 29 17.62	+ 0.46	289 14 58.55	18.78	173.78	+70 19 21.4	22.1	+23.6
35	ζ	Cassiopeiæ	9	31 31.81	+0.01	0.06	0 31 31.88	− 1.33	345 31 10.40	31.08	15.81	53 21 48.4	47.3	−19.0
36	δ	Andromedæ	9	34 6.10	−0.03	**+0.04**	0 34 6.13	− 0.97	8 32 51.40	11.25	9.28	+30 19 42.2	42.1	−12.5
37	21	Cassiopeiæ	8	39 12.69	+0.07	+0.05	0 39 12.81	− 2.57	324 25 56.40	18.10	43.84	+74 27 30.3	28.1	−22.7
38	ζ	Andromedæ	9	42 9.49	−0.04	**0.05**	0 42 9.50	0.96	15 8 13.52	33.85	16.67	23 44 12.8	12.1	10.0
39		B. D. 37° 151	9	45 50.68	−0.02	0.04	0 45 50.70	1.18	1 21 50.62	10.95	1.51	37 30 50.9	50.2	14.3
40	γ	Cassiopeiæ	9	50 49.00	+0.02	0.04	0 50 49.06	1.78	338 41 35.60	55.32	23.92	60 11 31.3	31.2	19.8
41	43	H. Cephei	9	55 24.38	+0.31	0.03	0 55 24.72	9.02	313 9 31.25	50.65	65.42	85 44 16.2	16.4	23.0
42		B. D. +36° 201	9	5 41.00	−0.02	+0.02	1 5 41.00	− 1.34	1 40 16.45	36.78	1.84	+37 12 24.8	24.0	−13.4
43		B. D. +40° 249	9	7 45.97	−0.02	+0.02	1 7 45.97	− 1.42	358 9 30.72	50.75	1.93	+40 43 14.0	13.8	−14.3
44	f	Piscium	9	12 45.56	0.07	**0.05**	1 12 45.50	0.94	35 46 1.62	22.28	44.41	3 5 57.0	56.0	1.6
45		B. D. +42° 288	9	16 30.97	0.01	+0.01	1 16 30.97	1.55	355 48 16.02	36.65	4.47	+43 4 31.5	30.2	−14.6
46	θ	Ceti	9	19 8.44	−0.09	**−0.02**	1 19 8.35	0.85	47 32 57.15	18.80	67.33	− 8 41 21.3	23.4	+ 2.9
47	α	Ursæ Minoris	5	24 0.66	+1.09	0.00	1 24 1.75	38.59	310 6 30.18	49.82	72.88	+88 47 25.7	25.5	−22.0
48	ν	Piscium	9	36 20.96	−0.07	**+0.03**	1 36 20.87	− 1.09	33 52 29.05	49.05	41.40	+ 4 59 32.6	32.2	− 1.3
49	ε	Sculptoris	9	41 4.39	−0.13	−0.02	1 41 4.24	− 0.82	64 23 16.88	36.78	128.06	−25 32 [41.7]	42.1	+ 8.9
50	ζ	Ceti	9	46 38.53	0.10	**0.05**	1 46 38.40	1.00	49 40 44.60	3.72	72.58	−10 49 14.0	13.6	+ 4.5
51	β	Arietis	9	49 14.94	−0.04	**−0.09**	1 49 14.87	− 1.36	18 32 29.90	50.90	20.71	+20 19 52.4	51.0	− 6.0

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
31 3 38	75.68	+4.7	+4.1
4 22	75.76	+4.2	+4.6
1 1 55	77.09	−1.5	−2.2
2 38	77.10	−2.0	−2.8
3 25	77.09	−2 5	−3.5
3 0 8	76.06	−3.8	−4.8
0 36	76.02	−4.3	−5.0
1 11	76.16	−4.5	−5.2
1 51	76.19	−4.7	−5.2

Bisections are made at II and V, except as noted below.

1, 2, 4, 5, 9, 10, 11, 14, 18, 35, 37, 39, 40, 41, 42, 48.	Bisections at III, V.
3, 19, 34.	Bisections at V, III.
13.	Bisections at d_2, III.
21–30.	Bisection at IV.
31.	Bisections at c_4, c_1.
45.	Bisections at III, VI.
47.	Bisections at c_2, c_3, c_4, c_5.

Notes.

1–20.	Seeing 3.
4.	Circle A read on 22′ division.
5.	First bisection hurried.
8.	First bisection doubtful.
18, 39, 42.	Observed head south.
19.	Very unsteady; woolly; poor observation.
20, 43, 45.	Observed head north.
21–28.	Seeing 3–4.
29, 30.	Seeing 3.
31–51.	Seeing 2.
31.	Clouds; rather doubtful.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–20, from nadir......		*	*
21–30, from nadir......	+2	30.03	.....
31–51, from nadir......	+2	29.90	10.32

*Interpolated from diagram.

1902 JANUARY 3. CLAMP EAST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\varDelta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	12 Canum Venat....	9	51 27.04	−0.02	**[−0.06]**	12 51	.....	0 2	.....	.....	+38 51	....	....
2	43 H. Cephei S. P...	7	55 26.24	0.43	**[0.65]**	0 55	.....	304 38 29.58	.....	90.30	85 44 17.4	....	−23.0
3	α Ursæ Minoris S. P.	9	24 4.06	1.52	**[0.34]**	1 24	.....	307 41 29.28	49.02	80.88	88 47 26.1	26.5	−22.0
4	η Bootis..........	9	50 1.39	−0.05	**[−0.05]**	13 50	.....	19 59	.....	.....	+18 53	....	....

1902 JANUARY 4. CLAMP EAST.

HAMMOND, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\varDelta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
5	f Piscium	9	12 45.62	−0.06	**−0.03**	1 12 45.55	− 0.93	35 46 1.45	.....	44.66	+ 3 5 57.0	....	− 1.5
6	α Ursæ Minoris....	8	24 2.38	−0.66	0.01	1 24 1.71	−37.80	310 6 30.28	.....	73.32	88 47 26.1	....	−22.0
7	13 B. Ursæ Minoris S. P.	9	34 47.74	+0.05	0.01	13 34 47.78	+ 1.87	290 39 30.75	.....	162.59	+71 44 5.2	....	+21.0
8	ε Sculptoris	9	41 4.36	−0.09	0.01	1 41 4.26	− 0.80	64 23 13.35	.....	128.79	−25 32 39.2	....	+ 9.0
9	ε Cassiopeiæ	9	47 22.94	0.04	0.01	1 47 22.89	2.69	335 41 35.92	.....	27.92	+63 11 34.9	....	−17.8
10	50 Cassiopeiæ	9	55 7.13	−0.05	−0.01	1 55 7.07	− 3.82	326 56 13.92	.....	40.26	+71 57 9.2	....	−18.7
11	α Arietis	9	1 40.33	−0.04	**−0.02**	2 1 40.28	− 1.47	15 52 20.40	.....	17.67	+23 0 4.8	....	− 6.2
12	β Trianguli	9	3 44.29	−0.04	**+0.01**	2 3 44.24	− 1.69	4 21 0.82	.....	4.76	34 31 37.2	....	− 9.8
13	4 Ursæ Minoris S. P.	9	9 8.83	+0.07	−0.01	14 9 8.89	+ 4.27	296 54 53.10	.....	121.34	+78 0 9.0	....	+19.4
14	κ Fornacis	9	18 4.73	−0.09	0.01	2 18 4.63	− 1.05	63 6 31.95	.....	121.93	−24 15 51.2	....	9.8
15	5 Ursæ Minoris S. P.	9	27 39.36	+0.06	0.01	14 27 39.41	+ 4.00	295 2 28.65	.....	131.79	+76 7 34.2	....	+18.0
16	142 H¹. Cephei	9	33 45.97	−0.09	−0.01	2 33 45.87	− 8.34	317 51 20.12	.....	56.00	+81 2 18.5	....	−17.0
17	γ Ceti.............	9	38 14.78	−0.06	**−0.02**	2 38 14.71	− 1.40	36 2 35.58	.....	45.19	+ 2 49 21.8	....	+ 2.0
18	β Fornacis.........	9	45 0.62	−0.10	0.01	2 45 0.51	− 1.15	71 38 50.50	.....	185.44	−32 49 13.4	....	12.6
19	β Ursæ Minoris S. P.	9	50 55.00	+0.06	0.01	14 50 55.05	+ 3.93	293 28 9.68	.....	141.74	+74 33 5.4	....	+16.0
20	47 H. Cephei	6	53 9.61	−0.08	0.01	2 53 9.52	− 7.45	319 51 25.35	.....	52.21	79 2 9.4	....	−15.2
21	α Ceti.............	9	57 10.93	−0.06	**0.02**	2 57 10.86	− 1.52	35 9 41.40	.....	43.76	3 42 17.4	....	+ 2.5
22	57 B. Ursæ Minoris S. P.	9	8 6.50	+0.33	−0.01	15 8 6.82	+31.59	306 30 27.28	.....	83.54	87 36 21.3	....	14.7
23	ο Tauri	9	19 34.00	−0.05	**+0.02**	3 19 33.94	− 1.68	30 11 4.95	.....	36.17	+ 8 41 1.3	....	+ 2.0

1902 JANUARY 5. CLAMP EAST.

HAMMOND, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\varDelta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
24	32² H. Camelop. S. P..	9	48 19.60	+0.36	−0.08	12 48 19.88	+ 4.19	302 50 37.32	.....	93.98	+83 56 20.6	....	+23.8
25	43 H. Cephei	5	55 25.00	−0.51	0.08	0 55 24.41	− 8.50	313 9 31.62	.....	64.82	85 44 16.0	....	−23.2
26	ε Piscium	9	57 52.34	0.04	**0.07**	0 57 52.22	0.86	31 30 17.20	.....	37.40	7 21 48.2	....	3.6
27	f Piscium	9	12 45.63	−0.05	**0.06**	1 12 45.50	0.92	35 46 3.02	.....	43.97	3 5 55.8	....	1.5
28	α Ursæ Minoris....	8	24 0.16	−1.80	0.08	1 23 58.28	−36.90	310 6 29.48	.....	72.20	88 47 25.5	....	−22.1
29	13 B. Ursæ Minoris S. P.	9	34 47.74	+0.12	−0.08	13 34 47.78	+ 1.80	290 39 28.72	.....	160.14	+71 44 5.8	....	+21.2
30	ε Sculptoris	.	.. ..	....	....	1 40	.....	64 23 16.70	.....	126.85	−25 32 40.8	....	+ 9.0
31	ε Cassiopeiæ	9	47 22.99	−0.09	−0.08	1 47 22.82	− 2.65	335 41 36.48	.....	27.51	+63 11 33.8	....	−17.9
32	50 Cassiopeiæ	9	55 7.17	0.12	0.08	1 55 6.97	3.77	326 56 14.30	.....	39.65	71 57 8.1	....	18.8
33	α Arietis	9	1 40.35	0.05	**0.04**	2 1 40.22	1.46	15 52 21.38	.....	17.41	23 0 4.0	....	6.2
34	β Trianguli	8	3 44.32	−0.05	**0.02**	2 3 44.19	− 1.68	4 21 1.78	.....	4.69	34 31 36.3	....	− 9.8
35	4 Ursæ Minoris S. P.	9	9 9.00	+0.18	−0.08	14 9 9.10	+ 4.16	296 54 51.48	.....	119.51	+78 0 9.2	....	+19.6
36	κ Fornacis.........	9	18 4.74	−0.05	−0.08	2 18 4.61	− 1.03	63 6 34.28	.....	120.09	−24 15 51.6	....	+ 9.9
37	5 Ursæ Minoris S. P.	9	27 39.55	+0.16	0.08	14 27 39.63	+ 3.91	295 2 26.40	.....	129.78	+76 7 33.8	....	+18.2
38	142 H¹. Cephei	9	33 46.21	−0.24	0.08	2 33 45.89	− 8.24	317 51 19.62	.....	55.16	81 2 18.3	....	−17.1
39	γ Ceti.............	9	38 14.88	0.05	**0.14**	2 38 14.75	1.39	36 2 36.02	.....	44.49	+ 2 49 22.3	....	+ 2.1
40	β Fornacis.........	9	45 0.73	−0.06	0.08	2 45 0.59	1.14	71 38 55.38	.....	182.68	−32 49 15.3	....	12.8
41	β Ursæ Minoris S. P.	9	50 55.06	+0.15	−0.08	14 50 55.13	+ 3.86	293 28 6.98	.....	139.64	+74 33 4.6	....	+ 16.3
42	47 H. Cephei	7	53 9.86	−0.20	−0.08	2 53 9.58	− 7.37	319 51 24.45	.....	51.42	+79 2 9.8	....	−15.4
43	α Ceti.............	9	57 11.01	−0.04	**0.13**	2 57 10.89	− 1.51	35 9 42.62	.....	43.10	3 42 17.1	....	+ 2.6
44	57 B. Ursæ Minoris S. P.	9	8 6.83	+0.91	0.08	15 8 7.66	+31.23	306 30 25.98	.....	82.30	87 36 20.9	....	14.9
45	ο Tauri	9	19 34.09	−0.05	**−0.07**	3 19 33.96	− 1.68	30 11 7.02	.....	35.62	+ 8 41 0.2	....	+ 2.1

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	cm.	°	°
3	13	19	76.49	−8.0	−8.6
	13	43	......	...	−8.8
4	1	5	76.74	−4.2	−4.7
	1	45	76.75	−4.5	−4.8
	2	30	76.77	−4.8	−5.0
	3	21	76.77	−5.0	−5.2
5	0	28	76.40	−0.6	−1.6
	1	20	76.42	−1.5	−1.8
	2	12	76.40	−2.0	−2.2
	3	15	76.39	−2.2	−2.5

Bisections are made at IV, except as noted below.

3. Bisections assumed as at c_5, c_4, c_2, c_1.

Notes.

1–4, 24–45.	Seeing 2–3.
1, 4.	Unsteady; poor.
2, 8.	Unsteady.
5–23.	Seeing 3.
14, 15, 19, 41.	Very unsteady.

Adopted Zenith Point Corrections.

		′	A. ″	B. ″
2, from nadir........		+2	31.12	.....
3, from nadir........		2	31.12	11.49
5–23, from nadir	0ʰ 15ᵐ.	2	29.56	.....
	3 30..	2	30.68	.....
24–45, from nadir........		+2	30.21	.....

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	β Leonis	9	44 4.95	−0.06	**−0.10**	11 44 4.77	− 1.08	23 45 15.15	.....	27.31	+15 6 59.7	....	+12.7
2	128 H¹. Camelop.	9	59 47.14	0.65	0.12	11 59 46.37	+ 1.83	312 46 25.48	.....	66.76	86 7 23.4	....	24.9
3	4 H. Draconis	9	7 36.87	0.22	0.12	12 7 36.53	0.29	320 44 20.35	.....	50.52	78 9 12.3	....	24.7
4	5 B. Ursæ Minoris	7	13 54.47	0.84	0.12	12 13 53.51	4.47	311 55 26.62	.....	68.78	86 58 24.3	....	24.7
5	κ Draconis	8	29 18.16	−0.13	−0.12	12 29 17.91	+ 0.27	328 34 2.22	.....	37.80	+70 19 17.7	....	+23.8
6	319 B. Cephei S. P.	9	32 24.68	+0.32	−0.12	0 32 24.88	− 3.65	300 51 58.90	.....	103.16	+81 57 33.6	....	−23.6
7	21 Cassiopeiæ S. P.	9	39 12.49	+0.17	0.12	0 39 12.54	− 2.39	293 22 34.25	.....	142.17	74 27 29.9	....	−22.7
8	32² H. Camelop.	8	48 20.35	−0.42	0.12	12 48 19.81	+ 4.08	314 57 23.25	.....	61.93	83 56 20.8	....	+23.8
9	43 H. Cephei S. P.	5	55 23.92	+0.59	0.12	0 55 24.39	− 8.37	304 38 28.58	.....	89.40	85 44 17.0	....	−23.2
10	ε Virginis	7	57 18.78	−0.06	**−0.15**	12 57 18.60	− 0.65	27 23 9.52	.....	32.17	+11 29 0.5	....	+ 9.2
11	θ Virginis	9	4 53.45	−0.07	**−0.10**	13 4 53.26	− 0.79	43 52 41.08	.....	59.68	− 5 0 58.6	....	+ 3.1
12	r Centauri	9	11 27.68	0.09	0.12	13 11 27.47	1.02	69 49 2.70	.....	167.65	30 59 8.2	....	− 6.1
13	γ Hydræ	9	13 36.64	−0.08	0.12	13 13 36.44	0.91	61 30 0.92	.....	114.00	−22 39 12.8	....	3.4
14	α Ursæ Minoris S. P.	8	23 57.71	+2.08	0.12	1 23 59.67	−36.43	307 41 28.12	.....	80.04	+88 47 25.9	....	−22.1
15	13 B. Ursæ Minoris	9	34 48.22	−0.14	−0.12	13 34 47.96	+ 1.76	327 9 17.68	.....	40.00	+71 44 4.5	....	+21.3
16	τ Bootis	9	42 36.79	−0.06	**−0.18**	13 42 36.61	− 0.29	20 55 44.70	.....	23.79	+17 56 33.7	....	+ 9.4
17	i Draconis	9	48 33.15	−0.11	0.12	13 48 32.92	+ 1.26	333 41 5.28	.....	30.65	65 12 7.5	....	+19.9
18	50 Cassiopeiæ S. P.	9	55 6.89	+0.15	0.12	1 55 6.92	− 3.74	290 52 30.80	.....	161.17	+71 57 7.5	....	−18.9
19	π Hydræ	9	0 48.21	−0.08	0.12	14 0 48.01	− 0.65	65 2 58.20	.....	133.02	−26 12 29.1	....	− 6.1
20	4 Ursæ Minoris	9	9 9.51	−0.21	−0.12	14 9 9.18	+ 4.11	320 53 22.55	.....	50.40	+78 0 10.0	....	+19.7

1902 JANUARY 6. CLAMP EAST.

HAMMOND, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
21	β Leonis	9	44 5.13	−0.06	**−0.25**	11 44 4.77	− 1.11	23 45 23.80	.....	26.71	+15 6 59.7	....	+12.9
22	128 H¹. Camelop.	9	59 47.57	1.11	0.30	11 59 46.16	+ 1.51	312 46 31.40	.....	65.30	86 7 24.1	....	24.9
23	4 H. Draconis	9	7 37.11	0.36	0.30	12 7 36.45	0.17	320 44 26.50	.....	49.41	78 9 13.1	....	24.7
24	5 B. Ursæ Minoris	9	13 55.39	1.42	0.30	12 13 53.67	4.07	311 55 32.18	.....	67.27	86 58 25.3	....	24.6
25	κ Draconis	9	29 18.44	−0.22	−0.30	12 29 17.92	+ 0.20	328 34 9.92	.....	36.95	+70 19 17.2	....	+23.9
26	319 B. Cephei S. P.	7	32 24.94	+0.54	−0.30	0 32 25.18	− 3.51	300 52 4.22	.....	100.83	+81 57 33.2	....	−23.7
27	21 Cassiopeiæ S. P.	9	39 12.69	+0.28	0.30	0 39 12.67	− 2.32	293 22 39.45	.....	138.97	74 27 30.3	....	−22.7
28	32² H. Camelop.	9	48 20.49	−0.71	0.30	12 48 19.48	+ 3.87	314 57 30.65	.....	60.51	83 56 20.0	....	+23.8
29	43 H. Cephei S. P.	5	55 24.64	+1.01	0.30	0 55 25.35	− 8.12	304 38 34.22	.....	87.36	85 44 16.7	....	−23.2
30	ε Virginis	9	57 18.97	−0.06	**−0.31**	12 57 18.61	− 0.68	27 23 18.98	.....	31.44	+11 28 59.8	....	+ 9.4
31	θ Virginis	9	4 53.73	−0.06	**−0.36**	13 4 53.37	− 0.82	43 52 51.30	.....	58.31	− 5 0 59.4	....	+ 3.3
32	r Centauri	9	11 27.88	0.06	0.30	13 11 27.52	1.06	69 49 15.45	.....	163.80	30 59 9.1	....	− 6.0
33	γ Hydræ	9	13 36.82	−0.06	0.30	13 13 36.46	0.94	61 30 12.60	.....	111.40	−22 39 13.8	....	3.2
34	α Ursæ Minoris S. P.	8	23 55.91	+3.55	0.30	1 23 59.16	−35.51	307 41 33.98	.....	78.23	+88 47 25.6	....	−22.3
35	13 B. Ursæ Minoris	9	34 48.48	−0.24	−0.30	13 34 47.94	+ 1.69	327 9 24.08	.....	39.08	+71 44 5.2	....	+21.4
36	τ Bootis	9	42 36.99	−0.07	**−0.28**	13 42 36.62	− 0.33	20 55 54.28	.....	23.25	+17 56 32.6	....	+ 9.6
37	i Draconis	9	48 33.48	−0.18	0.30	13 48 33.00	+ 1.21	333 41 13.55	.....	29.94	65 12 6.6	....	+20.1
38	50 Cassiopeiæ S. P.	9	55 7.07	+0.24	0.30	1 55 7.01	− 3.67	290 52 36.00	.....	157.40	+71 57 8.4	....	−19.0
39	π Hydræ	9	0 48.34	−0.06	0.30	14 0 47.98	− 0.69	65 3 9.75	.....	130.00	−26 12 29.6	....	− 5.9
40	4 Ursæ Minoris	9	9 9.88	0.36	0.30	14 9 9.22	+ 4.01	320 53 30.10	.....	49.23	+78 0 9.3	....	+19.8
41	λ Bootis	9	12 39.50	−0.10	**−0.31**	14 12 39.10	+ 0.47	352 20 55.12	.....	8.11	+46 32 3.2	....	+15.8

1902 JANUARY 8. CLAMP EAST.

HAMMOND, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
42	φ Pegasi	9	47 31.24	−0.06	**−0.68**	23 47 30.58	0.48	20 17 45.28	.....	21.82	+18 34 42.7	....	− 9.4
43	128 H¹. Camelop. S. P.	9	59 47.56	+0.83	−0.60	11 59 47.79	− 1.01	305 1 36.52	.....	83.75	+86 7 23.0	....	+24.8

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
5 11 41	76.09	−6.6	−6.9
12 24	76.09	−6.7	−7.0
13 20	76.08	−6.7	−7.4
14 15	76.09	−6.8	−7.7
6 11 42	75.62	−3.2	−2.8
12 36	75.59	−3.0	−2.8
13 50	75.60	−3.1	−3.2
14 19	75.60	−3.1	−3.3
8 23 50	75.41	+4.6	+3.9

Bisections are made at IV, except as noted below.

Notes.

1–20. Seeing 3.
10. Observation hurried.
21–41. Seeing 2–3.
42, 43. Seeing 2.
43. Very faint and unsteady.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–20, from nadir	+2	30.84	.....
21–41, from nadir	2	22.82	.....
42–43, from nadir	+2	23.19	.....

No.		Name.	Thds.	Mean Thread.	c_0' sec δ + n tan δ.	$\Delta T+m$.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	4	H. Draconis S. P.	9	7 37.21	+0.29	−0.60	12 7 36.90	0.00	297 3 58.25	.....	114.66	+78 9 13.8	....	+24.7
2	5	B. Ursæ Minoris S. P.	9	13 55.26	+1.19	0.60	12 13 55.85	+ 3.43	305 52 35.28	.....	81.25	86 58 24.2	....	+24.7
3	44	Piscium	9	20 23.95	−0.06	**0.62**	0 20 23.29	− 0.55	37 28 12.75	.....	45.26	1 23 51.8	....	− 2.5
4	κ	Draconis S. P.	9	29 18.44	+0.21	0.60	12 29 18.05	+ 0.08	289 14 55.70	.....	167.03	70 19 18.9	....	+24.0
5	319	B. Cephei	9	32 25.59	−0.52	0.60	0 32 24.47	− 3.30	316 56 12.45	.....	55.04	81 57 32.4	....	−23.7
6	21	Cassiopeiæ	9	39 13.23	−0.28	−0.60	0 39 12.35	− 2.21	324 26 1.82	.....	42.14	+74 27 30.1	....	−22.7
7	η	Cassiopeiæ	9	43 12.27	−0.14	−0.60	0 43 11.53	− 1.43	341 35 4.18	.....	19.62	+57 18 5.2	....	−19.4
8	32^2	H. Camelop. S. P.	8	48 20.27	+0.77	0.60	12 48 20.44	+ 3.55	302 50 41.75	.....	91.12	83 56 20.8	....	+23.9
9	43	H. Cephei	5	55 25.69	−1.14	0.60	0 55 23.95	− 7.70	313 9 36.52	.....	62.83	85 44 16.1	....	−23.3
10	ε	Piscium	9	57 52.84	0.06	**0.58**	0 57 52.18	0.83	31 30 25.35	.....	36.26	7 21 48.2	....	3.3
11	f	Piscium	9	12 46.12	0.06	**0.58**	1 12 45.46	0.88	35 46 11.55	.....	42.64	3 5 55.6	....	1.2
12	α	Ursæ Minoris	9	24 0.61	−4.74	−0.60	1 23 55.27	−34.05	310 6 34.18	.....	70.02	+88 47 25.6	....	−22.4

1902 JANUARY 11. CLAMP EAST.

HAMMOND, OBSERVER. NO ASSISTANT.

No.		Name.	Thds.	Mean Thread.	c_0' sec δ + n tan δ.	$\Delta T+m$.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
13	φ	Pegasi	9	47 31.74	−0.05	**−1.17**	23 47 30.54	− 0.45	20 17 43.35	.....	21.90	+18 34 42.6	....	− 9.1
14	128	H^1. Camelop. S. P.	7	59 50.17	+0.43	1.15	11 59 49.45	0.04	305 1 34.30	.....	84.06	86 7 22.4	....	+24.8
15	4	H. Draconis S. P.	9	7 38.18	0.14	1.15	12 7 37.17	− 0.35	297 3 55.25	.....	115.05	78 9 12.4	....	24.7
16	5	B. Ursæ Minoris S. P.	9	13 57.80	+0.55	1.15	12 13 57.20	+ 2.10	305 52 33.45	.....	81.53	86 58 24.1	....	+24.6
17	44	Piscium	9	20 24.43	−0.06	**1.13**	0 20 23.22	− 0.52	37 28 10.40	.....	45.43	1 23 52.0	....	− 2.3
18	κ	Draconis S. P.	9	29 19.26	+0.09	−1.15	12 29 18.20	− 0.14	289 14 53.90	.....	167.70	+70 19 18.4	....	+24.1
19	319	B. Cephei	8	32 25.48	−0.21	−1.15	0 32 24.12	− 1.17	316 56 10.62	.....	55.26	+81 57 32.4	....	−23.6
20	21	Cassiopeiæ	9	39 13.39	0.11	1.15	0 39 12.13	2.00	324 25 59.92	.....	42.31	74 27 30.2	....	22.6
21	η	Cassiopeiæ	9	43 12.64	−0.06	1.15	0 43 11.43	− 1.33	341 35 2.08	.....	19.70	57 18 5.4	....	−19.3
22	32^2	H. Camelop. S. P.	9	48 21.48	+0.28	1.15	12 48 20.61	+ 2.90	302 50 40.05	.....	91.47	83 56 20.8	....	+24.0
23	43	H. Cephei	5	55 24.68	−0.39	1.15	0 55 23.14	− 6.78	313 9 34.18	.....	63.11	85 44 16.7	....	−23.4
24	ε	Piscium	9	57 53.36	−0.06	**−1.14**	0 57 52.15	− 0.79	31 30 23.60	.....	36.42	+ 7 21 47.8	....	− 3.1

1902 JANUARY 11. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

No.		Name.	Thds.	Mean Thread.	c_0' sec δ + n tan δ.	$\Delta T+m$.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
25	c	Persei	9	1 36.66	−0.03	−1.26	4 1 35.37	− 2.76	351 25 46.75	3.42	8.94	+47 27 9.4	10.4	− 5.4
26	151	H^1. Cephei	8	5 59.52	−0.03	1.26	4 5 58.23	−18.67	313 35 50.62	9.50	62.46	85 17 59.0	57.8	−10.8
27	19	Ursæ Minoris S. P.	9	13 32.42	+0.02	1.26	16 13 31.18	+ 5.31	295 2 11.95	30.78	126.77	76 7 17.6	18.7	+10.5
28	δ	Tauri	9	17 20.19	−0.05	**1.23**	4 17 18.88	− 2.00	21 33 38.02	57.05	23.62	17 18 45.6	44.3	2.9
29	η	Ursæ Minoris S. P.	9	20 17.67	+0.02	1.26	16 20 16.43	+ 5.31	294 53 37.45	54.95	127.64	75 58 42.2	42.0	9.9
30	ε	Tauri	9	22 56.92	−0.05	**−1.24**	4 22 55.61	− 2.05	19 54 40.90	59.32	21.66	+18 57 44.6	43.9	+ 2.8
31	A	Draconis S. P.	9	28 8.29	+0.02	−1.26	16 28 7.05	+ 3.32	287 54 29.50	48.28	182.18	+68 58 39.8	41.0	+ 9.0
32	α	Tauri	9	30 21.11	−0.05	**1.26**	4 30 19.80	− 2.03	22 33 39.72	0.60	24.85	+16 18 42.6	39.4	3.9
33	53	Eridani	9	33 44.69	0.09	1.26	4 33 43.34	1.75	53 21 20.90	39.70	80.20	−14 29 53.7	55.0	+11.1
34	35	B. Camelop	9	35 46.39	0.02	1.26	4 35 45.11	7.06	323 7 37.80	56.08	44.69	+75 45 53.9	53.2	− 7.0
35	4	Camelop.	9	39 54.96	0.02	1.26	4 39 53.68	3.51	342 18 1.75	18.98	19.01	56 35 4.4	4.8	3.9
36	9	Camelop.	9	44 24.14	−0.02	−1.26	4 44 22.86	− 4.59	332 42 37.00	55.82	30.74	+66 10 40.9	39.6	− 5.0
37	π^5	Orionis	9	49 12.06	−0.07	**−1.29**	4 49 10.73	− 1.93	36 35 20.75	39.55	44.37	+ 2 16 42.2	40.9	+ 7.8
38	ε	Ursæ Minoris S. P.	9	55 50.22	+0.02	1.26	16 55 48.98	+10.83	301 6 19.08	34.58	98.49	82 11 52.7	50.7	6.3
39	η	Aurigæ	9	59 42.49	−0.03	1.26	4 59 41.20	− 2.73	357 46 41.90	58.82	2.27	+41 6 7.6	8.2	0.5
40	β	Eridani	9	3 5.14	0.08	**1.22**	5 3 3.80	1.93	44 4 44.80	4.15	57.85	− 5 12 55.3	57.2	9.8
41	μ	Aurigæ	9	6 47.24	0.04	1.26	5 6 45.94	2.65	0 30 39.75	57.75	0.58	+38 22 6.7	6.4	1.6
42	α	Aurigæ	9	9 31.13	−0.03	−1.26	5 9 29.84	− 2.96	352 58 59.28	17.02	7.31	+45 53 55.2	55.0	+ 0.5
43	τ	Orionis	9	12 54.17	−0.08	**−1.28**	5 12 52.83	− 1.94	45 48 56.12	14.60	61.45	− 6 57 10.2	11.2	+10.4
44	17	Camelop.	9	21 0.32	0.02	1.26	5 20 59.04	4.30	335 54 3.02	23.20	26.64	+62 59 10.8	8.0	− 1.0
45	α	Leporis	9	28 27.84	0.10	1.26	5 28 26.48	1.96	56 45 0.00	18.98	90.91	−17 53 43.5	45.1	+12.3
46	ε	Orionis	9	31 17.84	0.07	**1.31**	5 31 16.51	2.04	40 7 58.38	15.32	50.34	1 16 1.4	1.0	9.8
47	α	Columbæ	9	36 9.43	0.13	1.26	5 36 8.04	2.03	72 57 21.08	39.85	192.62	−34 7 46.2	47.7	14.2
48	o	Aurigæ	9	38 22.97	−0.03	−1.26	5 38 21.68	− 3.20	349 5 58.80	16.62	11.44	+49 46 59.8	59.4	+ 2.4

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
8 0 37	75.41	+4.0	+3.2
1 20	75.43	+3.5	+2.8
11 23 50	74.44	+0.5	−0.5
0 26	74.45	−0.4	−1.0
1 4	74.46	−1.0	−1.6
3 57	74.43	−2.3	−2.7
4 32	.....	...	−3.2
5 2	74.39	−2.8	−3.3

Bisections are made at IV, except as noted below.

25, 34, 35, 36, 39, 42, 44, 48. Bisections at III, V.
26. Bisections at c_1, c_5.
27, 29, 31, 38. Bisections at V, III.
28, 30, 32, 33, 37, 40, 41, 43, 45, 46, 47. Bisections at II, V.

Notes.

1–12. Seeing 2 at beginning, 3 at end.
13–24. Seeing 1.
14, 15. Very unsteady; poor observation.
25–48. Seeing 2–3.
38. Unsteady.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–12, from nadir	+2 23.19	.....
13–24, from nadir	2 25.20	.....
25–48, from nadir	+2 25.71	*

*Interpolated from diagram.

NO.	NAME.		THDS.	MEAN THREAD.	$c_0'\sec\delta + n\tan\delta$.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
									A.	B.		A.	B.	
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	κ	Orionis	9	43 9.84	—0.08	—1.26	5 43 8.50	— 2.02	48 34 7.22	24.38	67.58	— 9 42 27.4	27.3	+11.3
2	α	Orionis	9	49 55.46	0.06	**1.29**	5 49 54.14	2.14	31 28 59.35	16.70	36.57	+ 7 23 11.3	11.4	9.2
3	β	Aurigæ	9	52 24.67	—0.03	1.26	5 52 23.38	— 2.99	353 56 40.40	59.38	6.28	44 56 13.1	11.2	+ 4.2
4	δ	Ursæ Minoris s. p.	9	3 28.17	+0.04	1.26	18 3 26.95	+26.87	305 30 59.55	17.70	83.23	86 36 48.9	49.7	— 1.0
5	η	Geminorum	9	9 1.37	—0.05	1.26	6 9 0.06	— 2.37	16 20 29.30	47.98	17.52	22 31 60.3	59.0	+ 8.1
6	23	H. Camelop	9	29 42.43	—0.02	—1.26	6 29 41.15	— 9.82	319 13 27.05	44.20	51.25	+79 40 11.1	11.1	+ 4.5
7	51	Aurigæ	9	31 56.33	—0.04	—1.26	6 31 55.03	— 2.79	359 24 17.15	34.88	0.58	+39 28 30.7	30.1	+ 7.8
8	ε	Geminorum	9	37 57.93	0.04	**1.26**	6 37 56.63	2.44	13 39 0.48	16.90	14.51	25 13 32.2	33.0	9.4
9	ξ	Geminorum	9	39 50.93	0.06	**1.24**	6 39 49.60	2.26	25 52 21.48	40.32	28.93	12 59 56.8	55.2	10.4
10	18	Monocerotis	9	42 48.57	0.07	**1.28**	6 42 47.23	2.18	36 21 2.40	20.25	43.85	2 31 1.0	0.4	11.1
11	θ	Geminorum	9	46 23.81	0.04	1.27	6 46 22.50	2.62	4 48 4.82	21.58	5.04	34 4 37.2	37.8	9.3
12	15	Lyncis	9	48 52.71	—0.02	—1.27	6 48 51.42	— 3.80	340 20 10.18	27.30	21.23	+58 32 58.2	58.2	+ 7.8
13	51	H. Cephei	7	55 18.31	—0.04	—1.27	6 55 17.00	—33.18	311 41 49.22	6.60	66.63	+87 12 4.5	4.2	+ 6.7
14	γ	Canis Majoris	9	59 23.02	0.09	1.28	6 59 21.65	2.17	54 20 53.42	11.38	82.89	—15 29 28.9	29.8	11.9
15	δ	Canis Majoris	9	4 28.02	—0.11	1.28	7 4 26.63	— 2.24	65 5 5.55	23.82	127.64	—26 14 25.8	27.0	+11.9
16	δ	Draconis s. p.	9	12 30.37	+0.02	1.29	19 12 29.10	+ 3.14	286 25 33.80	51.70	198.56	+67 29 27.8	28.6	— 7.3
17	19	Lyncis	9	14 57.29	—0.02	—1.29	7 14 55.98	— 3.49	343 25 15.52	33.95	17.66	55 27 49.3	47.9	+10.3
18	λ	Ursæ Minoris s. p.	.	.. ..	....	....	19 19	.....	307 53 41.25	59.28	76.17	+88 59 37.6	38.8	— 9.0
19	ι	Geminorum	7	19 42.32	—0.04	**—1.35**	7 19 40.98	— 2.46	10 53 11.45	28.50	11.48	+27 59 24.4	24.2	+11.5
20	ρ	Geminorum	9	22 52.44	0.04	1.30	7 22 51.10	2.53	6 54 4.72	22.10	7.24	31 58 35.1	34.9	11.6
21	α	Geminorum	9	28 24.81	0.04	1.31	7 28 23.46	2.52	6 46 38.20	55.35	7.11	32 6 1.8	1.8	11.9
22	24	Lyncis	9	34 48.13	0.02	1.31	7 34 46.80	3.66	339 56 57.02	12.80	21.64	58 56 11.8	13.0	11.9
23	166	B. Camelop	9	48 36.14	0.02	1.33	7 48 34.79	6.07	324 42 52.22	11.00	41.97	74 10 36.8	34.9	12.5
24	ω¹	Cancri	9	55 3.88	—0.04	**—1.34**	7 55 2.50	— 2.34	13 13 3.98	22.65	14.00	+25 39 29.2	27.5	+13.3
25	χ	Geminorum	9	57 33.79	—0.04	**—1.30**	7 57 32.40	— 2.38	10 48 39.85	54.95	11.39	+28 3 55.9	57.8	+13.4
26	27	Lyncis	9	1 9.66	0.03	1.35	8 1 8.28	3.06	347 5 51.30	10.18	13.56	+51 47 9.4	7.5	14.1
27	ρ	Argus	9	3 25.89	0.11	1.35	8 3 24.43	2.25	62 52 17.78	36.75	115.61	—24 1 26.0	28.1	10.4
28	173	B. Camelop	9	7 22.62	—0.02	1.36	8 7 21.24	— 6.50	322 50 22.22	40.75	44.93	+76 3 9.7	8.0	+ 14.1
29	κ	Cephei s. p.	9	12 8.17	+0.02	—1.37	20 12 6.82	+ 5.32	296 19 59.18	13.85	119.18	+77 25 12.4	10.2	—13.2
					1902 JANUARY 12.				CLAMP EAST.					
UPDEGRAFF, OBSERVER.												HAMMOND, ASSISTANT.		
30	ε	Tauri	9	22 57.22	—0.06	**—1.53**	4 22 55.66	— 2.05	19 54 38.92	57.22	21.80	+18 57 45.4	45.1	+ 2.8
31	A	Draconis s. p.	9	28 8.47	+0.05	1.50	16 28 7.02	+ 3.27	287 54 30.00	49.80	183.36	68 58 40.2	42.1	9.2
32	α	Tauri	9	30 21.38	—0.06	**1.52**	4 30 19.82	— 2.03	22 33 37.55	58.10	25.03	+16 18 43.6	41.0	4.0
33	53	Eridani	9	33 44.91	0.07	1.50	4 33 43.34	1.74	53 21 18.32	37.28	80.76	—14 29 52.7	53.8	+11.3
34	35	B. Camelop	8	35 47.01	0.07	1.51	4 35 45.43	7.02	323 7 36.12	55.18	45.02	+75 45 54.9	53.7	— 7.2
35	4	Camelop	9	39 55.31	—0.05	—1.51	4 39 53.75	— 3.49	342 18 0.78	18.08	19.16	+56 35 4.5	5.2	— 4.1
36	9	Camelop	9	44 24.42	—0.05	—1.51	4 44 22.86	— 4.57	332 42 35.48	54.60	31.00	+66 10 41.6	40.5	— 5.2
37	π⁵	Orionis	9	49 12.21	—0.08	**1.43**	4 49 10.62	— 1.93	36 35 19.85	39.18	44.76	2 16 41.6	40.3	+ 7.9
38	ε	Ursæ Minoris s. p.	9	55 50.28	+0.12	1.51	16 55 48.89	+10.74	301 6 17.35	34.02	99.40	82 11 51.1	49.7	6.6
39	η	Aurigæ	9	59 42.77	—0.05	1.51	4 59 41.21	— 2.72	357 46 40.62	58.78	2.30	+41 6 7.9	7.8	0.4
40	β	Eridani	9	3 5.40	0.09	**1.48**	5 3 3.80	1.92	44 4 43.78	2.95	58.45	— 5 12 55.9	57.0	10.0
41	μ	Aurigæ	9	6 47.51	—0.05	—1.52	5 6 45.94	— 2.65	0 30 39.18	57.55	0.58	+38 22 6.3	6.2	+ 1.5
42	α	Aurigæ	9	9 31.40	—0.05	—1.52	5 9 29.83	— 2.95	352 58 57.50	16.08	7.38	+45 53 56.1	55.6	+ 0.4
43	τ	Orionis	9	12 54.45	0.09	**1.56**	5 12 52.84	1.93	45 48 54.55	12.20	62.12	— 6 57 10.4	9.9	10.5
44		B. D.+37° 1175	9	18 3.74	0.05	1.52	5 18 2.17	2.64	1 35 8.32	27.45	1.71	+37 17 36.0	35.2	+ 2.4
45	17	Camelop	9	21 0.63	0.05	1.52	5 20 59.06	4.29	335 54 3.62	22.50	26.94	62 59 9.4	8.8	— 1.2
46	χ	Aurigæ	9	26 25.04	0.05	1.52	5 26 23.47	2.50	6 45 31.35	49.68	7.20	+32 7 7.5	7.6	+ 4.0
47	α	Leporis	9	28 28.04	—0.10	—1.52	5 28 26.42	— 1.95	56 44 59.22	18.38	91.96	—17 53 44.9	45.7	+12.5
48	ε	Orionis	9	31 18.06	—0.08	**—1.52**	5 31 16.46	— 2.04	40 7 57.58	14.20	50.92	— 1 16 2.2	0.6	+ 9.9
49		B. D.+40° 1369	9	34 16.63	0.05	1.52	5 34 15.06	2.79	358 3 3.75	22.22	2.01	+40 49 44.5	44.2	3.1
50	α	Columbæ	9	36 9.68	0.14	1.52	5 36 8.02	2.03	72 57 21.15	39.02	194.90	—34 7 49.6	49.3	14.4
51	ο	Aurigæ	9	38 23.23	0.05	1.52	5 38 21.66	3.20	349 5 59.18	16.88	11.58	+49 46 58.6	59.2	2.2
52	κ	Orionis	9	43 10.13	0.09	1.52	5 43 8.52	2.01	48 34 5.32	23.12	68.41	— 9 42 27.4	26.9	11.4
53	α	Orionis	9	49 55.72	—0.07	**—1.54**	5 49 54.13	— 2.14	31 28 58.68	15.78	37.03	+ 7 23 10.5	11.8	+ 9.3
54	β	Aurigæ	9	52 24.95	—0.05	—1.52	5 52 23.38	— 2.98	353 56 40.05	58.52	6.36	+44 56 12.5	12.4	+ 4.1
55	δ	Ursæ Minoris s. p.	9	3 27.88	+0.26	1.53	18 3 26.61	+26.76	305 31 1.75	19.45	84.35	86 36 49.8	49.1	— 0.7
56	η	Geminorum	9	9 1.71	—0.06	1.53	6 9 0.12	— 2.37	16 20 28.70	47.88	17.77	22 31 59.7	59.0	+ 8.1
57	23	H. Camelop	9	29 42.66	0.09	1.54	6 29 41.03	9.81	319 13 26.62	45.25	52.08	79 40 11.3	11.2	4.2
58	51	Aurigæ	6	31 56.54	—0.05	—1.54	6 31 54.95	— 2.80	359 24 16.50	34.40	0.58	+39 28 30.4	30.9	+ 7.7

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
11 5 55	74.34	—3.0	—3.2
7 1	74.25	—2.8	—2.9
8 5	74.22	—2.5	—2.5
12 4 19	74.62	—3.0	—3.9
5 4	74.62	—4.2	—5.2
5 45	74.63	—4.9	—5.4

Bisections are made at II and V, except as noted below.

3, 47.	Bisections at III, VI.
4.	Bisections at c_5, c_1.
6, 7, 12, 17, 22, 23, 26, 28, 34, 35, 36, 39, 42, 45, 49, 51, 54, 57.	Bisections at III, V.
13.	Bisections at c_1, c_5.
16, 29, 31, 38, 55.	Bisections at V, III.
18.	Bisections at c_4, c_3.
19.	Bisections at IV, VI.
58.	Bisections at IV, V.

Notes.

1–29.	Seeing 2–3.
16, 31.	Very unsteady.
29.	First bisection doubtful.
30–58.	Seeing 3.
44.	Observed head north.
47.	Hurried.
49.	Observed head south.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–29, from nadir	+2 25.71	*
30–58, from nadir	+2 26.73	*

* Interpolated from diagram.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
								A.	B.		A.	B.	
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	*S* Monocerotis	9	35 38.72	−0.07	**−1.54**	6 35 37.11	− 2.24	28 53 10.90	28.95	33.45	+ 9 59 1.9	2.4	+10.6
2	ε Geminorum	9	37 58.28	0.06	**1.59**	6 37 56.68	2.44	13 38 59.12	16.80	14.75	25 13 32.2	33.2	9.4
3	ξ Geminorum	9	39 51.26	0.07	**1.55**	6 39 49.65	2.27	25 52 20.22	41.05	29.42	12 59 56.6	54.3	10.5
4	18 Monocerotis	9	42 48.82	0.08	**1.51**	6 42 47.20	2.19	36 21 1.28	19.68	44.61	2 31 0.4	0.5	11.2
5	θ Geminorum	9	46 24.12	0.05	1.54	6 46 22.53	2.62	4 48 3.30	21.20	5.13	34 4 37.6	38.4	9.3
6	15 Lyncis	9	48 52.97	−0.05	−1.54	6 48 51.38	− 3.81	340 20 10.00	26.98	21.60	+58 32 57.7	59.3	+ 7.6
7	51 H. Cephei	6	55 18.45	−0.31	−1.54	6 55 16.60	−33.20	311 41 46.88	8.30	67.81	+87 12 5.6	4.1	+ 6.4
8	γ Canis Majoris	9	59 23.33	0.10	1.54	6 59 21.69	2.18	54 20 51.48	10.62	84.37	−15 29 29.5	30.2	12.1
9	B. D. +37° 1660	9	2 2.99	0.05	1.54	7 2 1.40	2.71	1 16 59.00	17.68	1.40	+37 35 45.6	45.6	10.0
10	δ Canis Majoris	9	4 28.36	−0.12	1.54	7 4 26.70	− 2.24	65 5 2.42	21.45	129.96	−26 14 26.0	26.6	+12.1
11	δ Draconis S. P	9	12 30.36	+0.05	1.55	19 12 28.86	+ 3.13	286 25 38.62	59.20	202.16	+67 29 30.0	32.1	− 7.0
12	19 Lyncis	9	14 57.52	−0.05	−1.55	7 14 55.92	− 3.50	343 25 16.22	34.72	17.99	+55 27 48.0	47.9	−10.1
13	λ Ursæ Minoris S. P.	.	.. ..	....	....	19 18	....	307 53 42.25	3.58	77.57	+88 59 38.3	39.4	− 8.6
14	ι Geminorum	9	19 42.55	−0.06	**−1.55**	7 19 40.94	− 2.47	10 53 11.20	28.62	11.70	27 59 23.2	24.4	+11.5
15	ρ Geminorum	9	22 52.71	0.05	1.55	7 22 51.11	2.54	6 54 3.78	21.90	7.38	31 58 34.9	35.4	11.6
16	α Geminorum	9	28 25.07	0.05	1.55	7 28 23.47	2.53	6 46 37.52	55.25	7.24	32 6 1.3	2.2	11.9
17	B. D. +40° 1903	9	30 39.81	0.05	1.55	7 30 38.21	2.73	358 38 20.78	38.55	1.40	40 14 26.8	27.6	11.8
18	24 Lyncis	9	34 48.37	−0.05	−1.56	7 34 46.76	− 3.68	339 56 57.02	14.22	22.06	+58 56 11.2	12.5	+11.7
19	β Geminorum	9	39 23.28	−0.06	**−1.56**	7 39 21.66	− 2.44	10 37 1.35	18.30	11.40	+28 15 33.4	35.0	+12.6
20	π Geminorum	9	41 15.54	0.05	1.56	7 41 13.93	2.53	5 13 29.05	47.65	5.58	33 39 11.4	11.5	12.6
21	166 B. Camelop	9	48 36.44	0.06	1.56	7 48 34.82	6.10	324 42 53.32	11.58	42.79	74 10 35.5	35.7	12.3
22	ω^1 Cancri	9	55 4.15	0.06	**1.57**	7 55 2.53	2.36	13 13 3.82	22.78	14.28	25 39 28.0	27.7	13.3
23	χ Geminorum	9	57 34.07	0.06	**1.54**	7 57 32.45	2.40	10 48 40.02	55.55	11.61	28 3 54.5	57.6	13.4
24	27 Lyncis	9	1 10.00	−0.05	−1.56	8 1 8.39	− 3.08	347 5 51.98	9.98	13.83	+51 47 8.0	8.5	+13.9
25	ρ Argus	9	3 26.21	−0.12	−1.56	8 3 24.53	− 2.26	62 52 16.18	34.85	117.92	−24 1 27.7	28.0	+10.7
26	173 B. Camelop	9	7 23.01	−0.07	1.56	8 7 21.38	− 6.54	322 50 23.50	42.42	45.82	+76 3 8.3	7.9	+13.8
27	κ Cephei S. P	9	12 8.14	+0.08	−1.56	20 12 6.66	+ 5.35	296 20 1.12	19.20	121.59	+77 25 12.9	12.5	−12.9

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UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

28	*A* Tauri	9	58 57.63	−0.07	**−1.57**	3 58 55.95	1.99	17 3 35.20	54.15	18.73	+21 48 52.6	51.9	+ 0.7
29	c Persei	9	1 36.98	0.07	1.61	4 1 35.30	2.73	351 25 45.28	3.18	9.13	47 27 10.5	10.4	− 5.6
30	151 H^1. Cephei	9	6 0.46	−0.49	1.61	4 5 58.36	−18.28	313 35 50.42	10.15	63.80	85 17 59.2	57.3	−11.3
31	19 Ursæ Minoris S. P.	9	13 33.06	+0.17	1.61	16 13 31.62	+ 5.10	295 2 12.65	31.72	129.48	76 7 16.1	17.3	+11.3
32	δ Tauri	9	17 20.53	−0.07	**1.56**	4 17 18.85	− 1.99	21 33 36.55	55.50	24.13	17 18 46.0	44.9	3.0
33	ε Tauri	9	22 57.26	−0.07	**−1.57**	4 22 55.58	− 2.04	19 54 38.28	57.22	22.13	+18 57 46.3	45.1	+ 2.9
34	*A* Draconis S. P	9	28 8.78	+0.12	−1.61	16 28 7.29	+ 3.23	287 54 33.75	50.35	186.00	+68 58 40.8	39.5	+ 9.5
35	α Tauri	9	30 21.51	−0.07	**1.65**	4 30 19.83	− 2.02	22 33 38.60	58.05	25.38	+16 18 42.7	41.2	4.0
36	53 Eridani	9	33 44.94	0.08	1.61	4 33 43.25	1.73	53 21 18.28	36.42	81.88	−14 29 53.3	53.7	+11.4
37	35 B. Camelop	9	35 46.99	0.17	1.61	4 35 45.21	6.98	323 7 38.08	56.02	45.65	+75 45 54.1	54.0	− 7.5
38	4 Camelop	9	39 55.42	0.08	1.61	4 39 53.73	3.48	342 18 1.88	19.68	19.41	56 35 4.2	4.3	4.2
39	9 Camelop	9	44 24.45	−0.11	−1.61	4 44 22.73	− 4.55	332 42 35.95	55.70	31.40	+66 10 42.1	40.2	− 5.4
40	π^5 Orionis	9	49 12.36	−0.07	**−1.60**	4 49 10.68	− 1.92	36 35 19.28	38.35	45.33	+ 2 16 42.3	41.0	+ 8.0
41	ε Ursæ Minoris S. P.	9	55 50.17	+0.30	1.61	16 55 48.86	+10.64	301 6 19.52	35.90	100.65	82 11 51.4	50.0	7.0
42	η Aurigæ	9	59 42.84	−0.07	1.61	4 59 41.16	− 2.72	357 46 41.92	59.85	2.31	+41 6 7.2	7.1	0.3
43	β Eridani	9	3 5.56	0.08	**1.65**	5 3 3.87	1.92	44 4 44.22	3.30	59.14	− 5 12 56.4	57.7	10.1
44	μ Aurigæ	9	6 47.58	0.07	1.61	5 6 45.90	2.64	0 30 40.15	57.68	0.59	−38 22 6.0	6.4	1.4
45	α Aurigæ	9	9 31.50	−0.07	−1.61	5 9 29.82	− 2.95	352 58 59.00	17.02	7.47	+45 53 55.3	55.1	+ 0.2
46	τ Orionis	9	12 54.49	−0.08	**−1.61**	5 12 52.80	1.93	45 48 54.60	13.00	62.86	− 6 57 10.5	11.1	+10.6
47	B. D. +37° 1175	9	18 3.85	0.07	1.61	5 18 2.17	2.64	1 35 9.25	28.22	1.74	+37 17 35.9	34.7	+ 2.4
48	17 Camelop	9	21 0.74	0.10	1.61	5 20 59.03	4.27	335 54 4.78	23.95	27.28	62 59 9.3	7.9	− 1.4
49	χ Aurigæ	9	26 25.11	0.06	1.61	5 26 23.44	2.50	6 45 31.75	49.88	7.29	+32 7 7.8	7.5	+ 3.9
50	α Leporis	9	28 28.14	0.09	1.61	5 28 26.44	1.95	56 44 58.52	16.80	93.11	−17 53 44.5	45.1	12.7
51	ε Orionis	9	31 18.13	−0.07	**−1.61**	5 31 16.45	− 2.03	40 7 57.65	15.20	51.57	− 1 16 2.2	2.0	+10.1
52	B. D. +40° 1369	9	34 16.74	−0.07	−1.61	5 34 15.06	− 2.79	358 3 3.50	21.30	2.04	+40 49 45.3	45.4	+ 3.0
53	α Columbæ	9	36 9.75	0.11	1.61	5 36 8.03	2.02	72 57 17.55	36.62	197.42	−34 7 47.7	49.2	14.7
54	ο Aurigæ	9	38 23.36	0.07	1.61	5 38 21.68	3.20	349 6 0.02	16.22	11.73	+49 46 58.7	60.2	2.1
55	κ Orionis	9	43 10.26	0.08	1.61	5 43 8.57	2.01	48 34 6.38	22.92	69.31	− 9 42 28.6	27.4	11.6
56	α Orionis	9	49 55.82	0.07	**1.64**	5 49 54.14	2.14	31 28 59.25	16.32	37.52	+ 7 23 10.3	11.0	9.3
57	β Aurigæ	9	52 25.01	−0.07	−1.61	5 52 23.33	− 2.98	353 56 41.30	58.75	6.45	+44 56 12.2	12.4	+ 3.9

Time.		Barom.	Att. Ther.	Ext. Ther.
d	h m	cm.	°	°
12	6 45	74.66	−5.3	−6.0
	7 21	74.68	−5.5	−6.0
	8 5	74.68	−5.6	−6.0
13	4 0	75.54	−3.9	−4.4
	4 57	75.58	−4.5	−4.8

Bisections are made at II and V, except as noted below.

6, 17, 18, 21, 24, 26, 29, 30, 37, 38, 39, 42, 45, 47, 48, 54, 57.	Bisections at III, V.
7.	Bisections at III, c_5.
11, 27, 31, 34, 41.	Bisections at V, III.
12.	Bisections at IV, V.
13.	Bisections at c_4, b_3.
33.	Bisections at II, VI.

Notes.

1–12.	Seeing 4.
5.	Circle A read on 46′ division.
9, 52.	Observed head north.
13–27.	Seeing 3–4.
17, 47.	Observed head south.
23.	First bisection doubtful.
27.	Circle A read on 18′ division.
28–42.	Seeing 2–3.
30.	Very unsteady.
34.	Very unsteady; poor.
43–57.	Seeing 3.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–27, from nadir	+2 26.73	*
28–57, from nadir	*	*

*Interpolated from diagram.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	δ Ursæ Minoris S. P.	9	3 27.83	+0.68	−1.61	18 3 26.90	+26.64	305 31 2.82	20.62	85.43	+86 36 48.9	49.0	− 0.3
2	η Geminorum	9	9 1.76	−0.06	1.61	6 9 0.09	− 2.38	16 20 28.92	47.78	18.00	22 31 60.1	59.0	+ 8.1
3	23 H. Camelop.......	6	29 42.90	0.23	1.61	6 29 41.06	9.81	319 13 26.80	45.42	52.69	79 40 12.7	12.2	3.9
4	51 Aurigæ..........	9	31 56.68	0.07	1.61	6 31 55.00	2.80	359 24 16.78	34.62	0.59	39 28 31.0	30.8	7.6
5	S Monocerotis	9	35 38.81	0.07	**1.63**	6 35 37.13	2.24	28 53 11.85	28.85	33.83	9 59 1.5	2.2	10.7
6	ε Geminorum	9	37 58.29	−0.06	**−1.59**	6 37 56.62	− 2.45	13 38 59.60	17.20	14.92	+25 13 32.6	32.8	+ 9.4
7	ξ Geminorum	9	39 51.33	−0.07	**−1.62**	6 39 49.65	− 2.27	25 52 21.22	40.58	29.74	+12 59 56.2	54.6	+10.5
8	18 Monocerotis	9	42 48.93	0.07	**1.63**	6 42 47.24	2.19	36 21 1.22	19.82	45.11	2 31 0.9	0.0	11.4
9	θ Geminorum	9	46 24.17	0.07	1.62	6 46 22.48	2.63	4 48 4.55	21.98	5.19	34 4 37.3	37.7	9.2
10	15 Lyncis	9	48 53.14	0.09	1.62	6 48 51.43	3.82	340 20 11.08	27.90	21.84	58 32 57.9	58.8	7.4
11	51 H. Cephei	7	55 19.10	0.82	1.62	6 55 16.66	33.17	311 41 49.08	9.10	68.56	+87 12 5.2	4.4	6.0
12	γ Canis Majoris....	9	59 23.31	−0.08	−1.63	6 59 21.60	− 2.18	54 20 51.32	9.80	85.31	−15 29 29.2	30.1	+12.4
13	B.D.+37° 1660...	9	2 3.06	−0.07	−1.63	7 2 1.36	− 2.72	1 17 0.60	18.02	1.42	+37 35 45.2	45.5	+ 9.9
14	δ Canis Majoris....	9	4 28.39	−0.10	1.63	7 4 26.66	− 2.24	65 5 2.45	21.75	131.40	−26 14 26.4	28.0	+12.4
15	δ Draconis S. P	9	12 30.47	+0.11	1.64	19 12 28.94	+ 3.12	286 25 41.55	59.48	204.41	+67 29 29.6	29.9	− 6.6
16	19 Lyncis	9	14 57.61	−0.08	1.64	7 14 55.89	− 3.51	343 25 16.88	34.78	18.19	55 27 48.6	48.3	+ 9.9
17	λ Ursæ Minoris S. P.	.	.. ..	....	....	19 19	....	307 53 42.65	4.58	78.45	88 59 36.7	39.2	− 8.3
18	ι Geminorum	9	19 42.63	−0.06	**−1.62**	7 19 40.93	− 2.48	10 53 11.18	28.70	11.83	+27 59 24.2	24.4	+11.5
19	ρ Geminorum	9	22 52.83	−0.06	−1.64	7 22 51.13	− 2.55	6 54 4.92	23.40	7.46	+31 58 34.8	34.1	+11.5
20	α Geminorum	9	28 25.16	0.06	1.65	7 28 23.45	2.54	6 46 37.72	54.98	7.33	32 6 2.2	2.7	11.9
21	B. D.+40° 1903 ..	9	30 39.96	0.07	1.65	7 30 38.24	2.75	358 38 20.58	38.00	1.41	40 14 28.0	28.4	11.7
22	24 Lyncis	9	34 48.59	0.09	1.66	7 34 46.84	3.69	339 56 57.85	14.22	22.32	58 56 11.8	13.0	11.5
23	β Geminorum	9	39 23.42	0.06	**1.69**	7 39 21.70	2.45	10 37 2.12	19.10	11.54	28 15 33.6	34.4	12.5
24	π Geminorum	9	41 15.62	−0.07	−1.66	7 41 13.89	− 2.55	5 13 29.90	47.85	5.65	+33 39 11.7	11.5	+12.6
25	166 B. Camelop......	9	48 36.69	−0.15	−1.67	7 48 34.87	− 6.13	324 42 54.78	13.12	43.29	+74 10 35.7	35.0	+12.0
26	ω^1 Cancri...........	9	55 4.29	0.06	**1.70**	7 55 2.55	2.37	13 13 4.52	23.62	14.45	25 39 28.4	27.0	13.3
27	χ Geminorum	9	57 34.18	0.06	**1.64**	7 57 32.44	2.41	10 48 40.00	55.95	11.75	28 3 55.6	57.4	13.4
28	27 Lyncis	9	1 10.22	0.08	1.68	8 1 8.46	3.10	347 5 52.52	11.12	14.00	+51 47 8.9	7.9	13.8
29	ρ Argus	9	3 26.26	0.10	1.68	8 3 24.48	2.27	62 52 15.35	34.78	119.37	−24 1 27.0	29.0	10.9
30	173 B. Camelop......	9	7 23.23	−0.17	1.69	8 7 21.37	− 6.58	322 50 24.32	42.62	46.39	+76 3 9.3	8.6	+13.6
31	κ Cephei S. P	9	12 8.29	+0.19	−1.70	20 12 6.78	+ 5.38	296 20 2.58	19.92	123.08	+77 25 11.6	11.3	−12.6
UPDEGRAFF, OBSERVER.						1902 JANUARY 14.		CLAMP EAST.			HAMMOND, ASSISTANT.		
32	A Tauri.............	9	58 57.74	−0.06	**−1.70**	3 58 55.97	− 1.98	17 3 35.55	55.12	18.57	+21 48 52.8	51.0	+ 0.7
33	c Persei	9	1 37.10	0.06	1.72	4 1 35.32	2.72	351 25 45.68	3.08	9.05	47 27 10.3	10.6	− 5.7
34	151 H^1. Cephei	9	6 0.11	−0.34	1.72	4 5 58.05	−18.08	313 35 50.05	9.12	63.20	85 17 60.0	58.7	−11.5
35	19 Ursæ Minoris S. P.	9	13 33.29	+0.12	1.72	16 13 31.69	+ 5.03	295 2 11.40	30.15	128.23	76 7 15.9	16.9	+11.6
36	δ Tauri.............	9	17 20.62	−0.06	**1.67**	4 17 18.84	− 1.98	21 33 37.48	57.18	23.89	17 18 45.5	43.6	3.0
37	ε Tauri.............	9	22 57.41	−0.06	**−1.74**	4 22 55.63	− 2.03	19 54 39.25	58.68	21.90	+18 57 45.7	44.1	+ 2.9
38	A Draconis S. P	9	28 8.82	+0.09	−1.72	16 28 7.19	+ 3.18	287 54 30.15	49.62	184.12	+68 58 38.8	40.6	+ 9.8
39	α Tauri.............	9	30 21.64	−0.06	**1.79**	4 30 19.86	− 2.02	22 33 39.25	58.48	25.11	+16 18 42.6	41.1	4.0
40	53 Eridani	9	33 45.06	0.08	1.72	4 33 43.26	1.73	53 21 20.18	39.05	81.04	−14 29 54.1	55.3	+11.6
41	35 B. Camelop	9	35 47.08	0.12	1.72	4 35 45.24	6.94	323 7 36.78	55.15	45.14	+75 45 55.0	54.4	− 7.7
42	4 Camelop	9	39 55.51	0.06	1.72	4 39 53.73	3.47	342 18 1.40	19.08	19.20	56 35 4.7	4.8	4.4
43	9 Camelop	9	44 24.61	−0.08	−1.73	4 44 22.80	− 4.53	332 42 35.48	54.52	31.05	+66 10 42.4	41.1	− 5.6
44	π^5 Orionis...........	9	49 12.46	−0.07	**−1.70**	4 49 10.66	− 1.92	36 35 20.52	39.15	44.81	+ 2 16 41.7	40.8	+ 8.1
45	ε Ursæ Minoris S. P.	9	55 50.52	+0.21	1.73	16 55 49.00	+10.53	301 6 17.32	34.52	99.45	82 11 50.3	49.7	7.2
46	η Aurigæ..........	9	59 42.94	−0.06	1.73	4 59 41.15	− 2.71	357 46 41.05	59.25	2.30	+41 6 8.2	7.7	0.2
47	β Eridani	9	3 5.59	0.08	**1.69**	5 3 3.78	1.91	44 4 45.68	4.22	58.41	− 5 12 57.1	57.9	10.2
48	μ Aurigæ..........	9	6 47.72	0.06	1.73	5 6 45.93	2.64	0 30 39.50	57.25	0.58	+38 22 6.7	6.9	1.4
49	α Aurigæ..........	9	9 31.59	−0.06	−1.73	5 9 29.80	− 2.94	352 58 58.60	16.02	7.38	+45 53 55.7	56.0	+ 0.1
50	τ Orionis..........	9	12 54.61	−0.08	**−1.73**	5 12 52.80	− 1.93	45 48 55.95	14.02	62.06	− 6 57 11.0	11.3	+10.8
51	B. D.+37° 1175 ..	9	18 3.99	0.06	1.73	5 18 2.20	2.63	1 35 8.30	27.48	1.71	+37 17 36.8	35.5	+ 2.3
52	17 Camelop	9	21 0.82	0.04	1.73	5 20 59.05	4.27	335 54 3.08	22.12	26.92	62 59 10.7	9.4	− 1.6
53	χ Aurigæ..........	9	26 25.22	0.06	1.73	5 26 23.43	2.50	6 45 31.50	49.68	7.19	+32 7 8.1	7.8	+ 3.9
54	α Leporis..........	9	28 28.28	0.09	1.73	5 28 26.46	1.95	56 45 0.35	18.80	91.85	−17 53 45.1	45.9	12.9
55	ε Orionis..........	9	31 18.25	−0.07	**−1.73**	5 31 16.45	− 2.03	40 7 57.65	15.22	50.86	− 1 16 1.5	1.3	+10.2

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
13 5 55	75.65	−5.0	−5.4
6 55	75.65	−5.2	−5.5
8 9	75.68	−5.5	−5.8
14 3 57	75.67	−1.0	−1.7
4 57	75.62	−1.0	−1.6

Bisections are made at II and V, except as noted below.

1, 15, 31, 35, 38, 45.	Bisections at V, III.
3, 11.	Bisections at III, IV.
4, 10, 13, 16, 22, 25, 28, 30, 33, 41, 42, 43, 46, 49, 52.	Bisections at III, V.
14.	Bisections at II, VI.
17.	Bisections at c_4, b_3.
34.	Bisections at c_1, c_5.

Notes.

1–45.	Seeing 3.
31.	Circle A read on 18′ division.
13.	Observed head south.
21, 51.	Observed head north.
46–55.	Seeing 3–4.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–31, from nadir		*	*
32–55, from nadir	+2	26.00	8.25

*Interpolated from diagram.

No.	Name.	Thds.	Mean Thread.	c_0' sec δ + n tan δ.	ΔT+m.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	B. D. +40° 1369	9	34 16.86	−0.06	−1.73	5 34 15.07	− 2.79	358 3 3.80	22.28	2.01	+40 49 45.1	44.4	+ 2.9
2	α Columbæ	9	36 9.91	0.12	1.73	5 36 8.06	2.01	72 57 21.90	41.08	194.71	−34 7 49.6	51.0	14.9
3	ο Aurigæ	9	38 23.47	0.06	1.73	5 38 21.68	3.20	349 5 58.45	15.70	11.57	+49 47 0.0	0.5	1.9
4	κ Orionis	9	43 10.37	0.08	1.73	5 43 8.56	2.01	48 34 6.75	24.42	68.31	− 9 42 28.0	28.0	11.8
5	α Orionis	9	49 55.93	0.07	**1.75**	5 49 54.12	2.14	31 28 59.25	15.80	36.97	+ 7 23 10.7	12.0	9.4
6	β Aurigæ	9	52 25.15	−0.06	−1.74	5 52 23.35	− 2.98	353 56 40.40	58.82	6.35	+44 56 12.9	12.2	+ 3.8
7	δ Ursæ Minoris S. P.	9	3 28.64	+0.48	−1.74	18 3 27.38	+26.51	305 31 0.58	18.35	84.18	+86 36 48.1	48.1	0.0
8	η Geminorum	9	9 1.89	−0.06	1.74	6 9 0.09	− 2.38	16 20 28.55	47.02	17.73	22 32 0.6	0.0	+ 8.1
9	23 H. Camelop	7	29 42..89	0.16	1.74	6 29 40.99	9.81	319 13 26.15	43.82	51.93	79 40 12.4	12.9	3.6
10	51 Aurigæ	9	31 56.79	0.06	1.74	6 31 54.99	2.80	359 24 16.68	34.45	0.58	39 28 30.8	30.8	7.5
11	S Monocerotis	9	35 38.92	0.06	**1.74**	6 35 37.12	2.25	28 53 11.70	29.40	33.34	9 59 1.9	2.0	10.7
12	ε Geminorum	9	37 58.46	−0.06	**−1.76**	6 37 56.65	− 2.45	13 38 59.68	16.62	14.71	+25 13 32.5	33.4	+ 9.4
13	ξ Geminorum	9	39 51.50	−0.06	**−1.79**	6 39 49.69	− 2.28	25 52 20.82	40.25	29.32	+12 59 56.8	55.2	+10.6
14	18 Monocerotis	9	42 49.09	0.07	**1.79**	6 42 47.27	2.19	36 21 2.52	19.98	44.45	2 31 0.0	0.3	11.5
15	θ Geminorum	9	46 24.26	0.06	1.75	6 46 22.45	2.64	4 48 3.28	21.15	5.11	34 4 38.4	38.4	9.1
16	15 Lyncis	9	48 53.16	0.07	1.75	6 48 51.34	3.82	340 20 9.75	26.52	21.53	58 32 58.6	59.6	7.2
17	51 H. Cephei	7	55 18.66	0.57	1.75	6 55 16.34	33.13	311 41 47.10	8.52	67.59	+87 12 5.9	3.8	5.7
18	γ Canis Majoris	9	59 23.48	−0.09	−1.75	6 59 21.64	− 2.19	54 20 52.52	11.60	84.12	−15 29 29.6	31.0	+12.6
19	B. D. +37° 1660	9	2 3.17	−0.06	−1.75	7 2 1.36	− 2.73	1 16 59.48	16.88	1.40	+37 35 45.9	46.4	+ 9.8
20	δ Canis Majoris	9	4 28.52	−0.10	1.75	7 4 26.67	− 2.25	65 5 3.78	23.30	129.54	−26 14 26.2	28.0	+12.7
21	δ Draconis S. P	9	12 30.61	+0.08	1.75	19 12 28.94	+ 3.12	286 25 35.48	53.82	201.60	+67 29 26.7	27.3	− 6.3
22	19 Lyncis	9	14 57.76	−0.06	1.75	7 14 55.95	− 3.52	343 25 15.82	34.22	17.94	55 27 49.0	48.4	+ 9.6
23	λ Ursæ Minoris S. P.	.	.. ..	....	....	19 19	....	307 53 40.28	3.00	77.36	88 59 35.8	39.0	− 8.0
24	ι Geminorum	9	19 42.78	−0.06	**−1.76**	7 19 40.97	− 2.49	10 53 11.50	28.40	11.66	+27 59 23.7	24.6	+11.5
25	ρ Geminorum	9	22 52.92	−0.06	−1.75	7 22 51.11	− 2.55	6 54 4.25	22.35	7.36	+31 58 35.2	35.0	+11.5
26	α Geminorum	9	28 25.29	0.06	1.75	7 28 23.48	2.56	6 46 37.48	54.88	7.22	32 6 2.1	2.6	11.8
27	B. D. +40° 1903	9	30 40.13	0.06	1.75	7 30 38.32	2.76	358 38 20.52	37.88	1.39	40 14 27.8	28.2	11.6
28	24 Lyncis	9	34 48.66	0.07	1.75	7 34 46.84	3.71	339 56 56.52	13.50	22.00	58 56 12.4	13.1	11.3
29	β Geminorum	9	39 23.49	0.06	**1.75**	7 39 21.68	2.46	10 37 1.40	17.95	11.37	28 15 34.1	35.4	12.5
30	π Geminorum	9	41 15.72	−0.06	−1.76	7 41 13.90	− 2.56	5 13 29.35	47.08	5.57	+33 39 11.9	12.0	+12.5
31	166 B. Camelop	9	48 36.56	−0.11	−1.76	7 48 34.69	− 6.15	324 42 52.38	10.65	42.67	+74 10 37.0	36.5	+11.7
32	ω^1 Cancri	9	55 4.37	0.06	**1.77**	7 55 2.55	2.38	13 13 4.60	22.92	14.24	25 39 28.0	27.6	13.3
33	χ Geminorum	9	57 34.27	0.06	**1.71**	7 57 32.45	2.43	10 48 39.62	55.55	11.59	28 3 55.6	57.6	13.4
34	27 Lyncis	9	1 10.21	0.06	1.76	8 1 8.39	3.12	347 5 52.10	9.08	13.80	+51 47 8.6	9.4	13.6
35	ρ Argus	9	3 26.37	0.10	1.76	8 3 24.51	2.28	62 52 17.35	35.62	117.62	−24 1 27.8	28.4	11.2
36	173 B. Camelop	9	7 23.21	−0.12	1.76	8 7 21.33	− 6.61	322 50 22.85	41.20	45.71	+76 3 9.5	8.9	+13.3
37	κ Cephei S. P	9	12 8.08	+0.13	−1.76	20 12 6.45	+ 5.39	296 19 59.25	17.45	121.28	+77 25 10.6	11.1	−12.3

1902 JANUARY 16. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

No.	Name.	Thds.	Mean Thread.	c_0' sec δ + n tan δ.	ΔT+m.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
38	A Tauri	9	58 57.79	−0.08	**−1.75**	3 58 55.98	− 1.96	17 3 36.78	54.58	18.27	+21 48 52.2	51.5	+ 0.7
39	c Persei	9	1 37.15	0.13	1.73	4 1 35.29	2.68	351 25 46.10	2.58	8.91	47 27 10.0	10.7	− 5.9
40	151 H^1. Cephei	9	6 1.26	−1.11	1.73	4 5 58.42	−17.71	313 35 48.40	6.72	62.23	85 17 60.2	59.0	−11.9
41	19 Ursæ Minoris S. P.	9	13 33.13	+0.38	1.73	16 13 31.78	+ 4.88	295 2 9.52	27.32	126.30	76 7 15.6	16.3	+12.1
42	δ Tauri	9	17 20.64	−0.08	**1.69**	4 17 18.83	− 1.96	21 33 38.15	56.68	23.53	17 18 45.6	44.2	3.1
43	ε Tauri	9	22 57.40	−0.08	**−1.72**	4 22 55.59	− 2.02	19 54 40.12	58.25	21.58	+18 57 45.5	44.6	+ 2.9
44	A Draconis S. P	9	28 8.69	+0.25	−1.73	16 28 7.21	+ 3.08	287 54 29.40	46.25	181.51	+68 58 40.4	40.1	+10.4
45	α Tauri	9	30 21.61	−0.08	**1.76**	4 30 19.80	− 2.00	22 33 39.38	59.40	24.76	+16 18 43.1	40.2	4.1
46	53 Eridani	9	33 44.99	0.06	1.73	4 33 43.20	1.71	53 21 21.60	40.08	79.87	−14 29 54.1	55.5	+11.8
47	35 B. Camelop	9	35 47.38	0.37	1.73	4 35 45.28	6.84	323 7 36.98	54.42	44.52	+75 45 54.6	54.2	− 8.1
48	4 Camelop	9	39 55.62	0.16	1.73	4 39 53.73	3.44	342 18 1.00	18.12	18.93	56 35 5.1	5.1	4.7
49	9 Camelop	9	44 24.66	−0.22	−1.73	4 44 22.71	− 4.49	332 42 36.02	53.40	30.64	+66 10 41.8	41.5	− 6.0
50	π^5 Orionis	9	49 12.47	−0.07	**−1.73**	4 49 10.67	− 1.90	36 35 21.58	39.58	44.23	+ 2 16 41.5	40.6	+ 8.4
51	ε Ursæ Minoris S. P.	9	55 50.08	+0.67	1.73	16 55 49.02	+10.37	301 6 16.48	32.75	98.22	82 11 50.0	49.5	+ 7.8
52	η Aurigæ	9	59 43.04	−0.11	1.73	4 59 41.20	− 2.69	357 46 41.28	58.00	2.27	+41 6 8.2	8.6	0.0
53	β Eridani	9	3 5.54	0.07	**1.66**	5 3 3.74	1.90	44 4 45.35	4.25	57.70	− 5 12 55.7	57.5	+10.5
54	μ Aurigæ	9	6 47.76	0.10	1.73	5 6 45.93	2.62	0 30 40.12	56.90	0.57	+38 22 6.4	6.9	+ 1.2
55	α Aurigæ	9	9 31.73	−0.12	−1.73	5 9 29.88	− 2.93	352 58 59.25	15.80	7.29	+45 53 55.3	55.8	− 0.1

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	cm.	°	°
14	5	54	75.58	−1.0	−1.7
	7	11	75.57	−1.5	−2.2
	8	10	75.53	−1.6	−2.6
16	3	57	75.17	+3.3	+0.8
	4	38	75.18	+1.2	+0.4

Bisections are made at II and V, except as noted below.

1, 2, 3, 6, 10, 16, 22, 27, 28, 31, 34, 36, 39, 40, 47, 48, 49, 52, 55.	Bisections at III, V.
7, 21, 37, 41, 44, 51.	Bisections at V, III.
9.	Bisections at III, IV.
17.	Bisections at III, IV.
23.	Bisections at c_4, b_3.

Notes.

1–37.	Seeing 3–4.
1, 27.	Observed head south.
2.	Observation poor.
7, 17.	Observation unsteady.
19.	Observed head north.
38–55.	Seeing 3.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–37, from nadir......	+2	26.00	8.25
38–55, from nadir......	+2	25.67	8.58

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		B. D.+37° 1175..	9	18 4.02	−0.10	−1.73	5 18 2.19	− 2.62	1 35 9.08	26.92	1.69	+37 17 36.5	35.8	+ 2.1
2	17	Camelop	9	21 1.00	0.20	1.73	5 20 59.07	4.24	335 54 2.90	20.90	26.62	62 59 10.9	10.0	− 2.1
3	χ	Aurigæ..........	9	26 25.24	0.10	1.73	5 26 23.41	2.50	6 45 32.30	49.90	7.11	+32 7 7.7	7.4	+ 3.8
4	α	Leporis	9	28 28.18	0.06	1.73	5 28 26.39	1.93	56 45 1.52	18.98	90.89	−17 53 45.0	45.4	13.3
5	ε	Orionis..........	9	31 18.25	0.07	**1.73**	5 31 16.45	2.03	40 7 59.92	15.65	50.34	− 1 16 2.9	1.6	10.4
6		B. D.+40° 1369..	9	34 16.98	−0.11	−1.73	5 34 15.14	− 2.78	358 3 3.10	21.85	1.99	+40 49 46.0	44.5	+ 2.7
7	α	Columbæ........	9	36 9.84	−0.07	−1.73	5 36 8.04	− 2.00	72 57 23.10	42.15	192.75	−34 7 48.3	50.4	+15.4
8	ο	Aurigæ..........	9	38 23.54	0.13	1.73	5 38 21.68	3.19	349 5 59.12	15.22	11.45	+49 46 59.6	60.6	1.6
9	κ	Orionis..........	9	43 10.39	0.07	1.73	5 43 8.59	2.01	48 34 7.40	24.62	67.64	− 9 42 27.6	27.8	12.2
10	α	Orionis..........	9	49 55.91	0.07	**1.73**	5 49 54.11	2.14	31 29 1.12	16.50	36.59	+ 7 23 9.6	11.3	9.6
11	β	Aurigæ..........	9	52 25.23	0.12	1.73	5 52 23.38	2.99	353 56 40.42	58.48	6.29	44 56 13.1	12.2	3.6
12	23	H. Camelop......	7	29 43.31	−0.51	−1.73	6 29 41.07	− 9.79	319 13 25.32	42.08	51.29	+79 40 12.9	13.6	+ 3.0
13	51	Aurigæ..........	9	31 56.87	−0.11	−1.73	6 31 55.03	− 2.81	359 24 16.45	34.25	0.58	+39 28 31.4	30.7	+ 7.3
14	S	Monocerotis	9	35 38.93	0.07	**1.74**	6 35 37.13	2.25	28 53 13.55	30.02	32.92	9 59 0.8	1.5	10.9
15	ε	Geminorum	9	37 58.53	0.09	**1.79**	6 37 56.71	2.46	13 38 59.65	17.50	14.52	25 13 33.0	32.4	9.4
16	ξ	Geminorum	9	39 51.47	0.08	**1.74**	6 39 49.66	2.28	25 52 22.12	40.68	28.94	12 59 56.2	54.8	10.7
17	18	Monocerotis	9	42 49.06	0.07	**1.75**	6 42 47.26	2.20	36 21 3.20	20.68	43.88	2 30 60.2	59.8	11.7
18	θ	Geminorum	9	46 24.31	−0.10	−1.73	6 46 22.48	− 2.64	4 48 4.55	21.25	5.05	+34 4 37.5	38.1	+ 9.0
19	15	Lyncis	9	48 53.37	−0.17	−1.73	6 48 51.47	− 3.84	340 20 10.00	25.50	21.24	+58 32 58.4	60.0	+ 6.9
20	51	H. Cephei	7	55 20.67	1.86	1.73	6 55 17.08	33.04	311 41 46.58	5.70	66.68	+87 12 5.8	5.4	5.1
21	γ	Canis Majoris....	9	59 23.46	0.07	1.73	6 59 21.66	2.19	54 20 54.82	12.68	82.98	−15 29 30.4	31.2	13.1
22		B. D.+37° 1660..	9	2 3.24	0.10	1.73	7 2 1.41	2.74	1 16 59.75	16.85	1.38	+37 35 46.1	46.1	9.6
23	δ	Canis Majoris....	9	4 28.39	0.07	1.73	7 4 26.59	2.25	65 5 6.80	25.20	127.76	−26 14 27.1	28.5	13.2
24	ι	Geminorum	9	19 42.83	−0.09	**−1.77**	7 19 41.01	− 2.50	10 53 11.42	28.90	11.50	+27 59 24.2	24.0	+11.4
25	ρ	Geminorum	7	22 53.04	−0.10	−1.73	7 22 51.21	− 2.58	6 54 4.48	22.30	7.25	+31 58 35.4	34.7	+11.4
26	λ	Ursæ Minoris S. P.	.	.. ..	....	....	19 19	....	307 53 41.32	0.35	76.28	88 59 35.8	37.8	− 7.3
27	α	Geminorum	9	28 25.34	0.10	1.73	7 28 23.51	2.58	6 46 37.98	54.80	7.12	32 6 2.0	2.4	+11.6
28		B. D.+40° 1903..	9	30 40.15	0.11	1.73	7 30 38.31	2.78	358 38 20.48	37.15	1.37	40 14 28.0	28.6	11.4
29	24	Lyncis	9	34 48.86	0.17	1.73	7 34 46.96	3.74	339 56 55.85	12.40	21.70	58 56 13.0	13.6	10.8
30	β	Geminorum	9	39 23.58	−0.09	**−1.79**	7 39 21.76	− 2.48	10 37 1.88	18.05	11.22	+28 15 34.1	35.1	+12.4
31	π	Geminorum	9	41 15.88	−0.10	−1.73	7 41 14.05	− 2.59	5 13 29.82	47.08	5.50	+33 39 11.8	11.8	+12.4
32	166	B. Camelop......	7	48 37.00	0.33	1.73	7 48 34.94	6.20	324 42 52.70	10.60	42.11	74 10 36.7	35.6	11.2
33	ω^1	Cancri	9	55 4.32	0.09	**1.66**	7 55 2.50	2.41	13 13 4.22	22.20	14.06	25 39 28.9	28.1	13.3
34	χ	Geminorum	9	57 34.28	0.09	**1.67**	7 57 32.46	2.45	10 48 40.08	55.08	11.44	28 3 55.6	57.8	13.3
35	27	Lyncis	9	1 10.33	0.14	1.73	8 1 8.46	3.14	347 5 51.38	9.25	13.62	+51 47 9.5	8.7	13.2
36	ρ	Argus	9	3 26.35	−0.07	−1.73	8 3 24.55	− 2.31	62 52 20.82	38.30	116.17	−24 1 29.5	30.0	+11.8
37	173	B. Camelop......	9	7 23.57	−0.38	−1.73	8 7 21.46	− 6.70	322 50 22.12	39.68	45.15	+76 3 10.0	9.6	+12.8
38	κ	Cephei S. P	9	12 7.93	+0.42	−1.73	20 12 6.62	+ 5.42	296 19 58.15	17.02	119.84	+77 25 10.6	12.4	−11.6

1902 JANUARY 17. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

39	A	Tauri	9	58 57.59	+0.03	**−1.67**	3 58 55.94	− 1.95	342 51 24.50	42.88	18.59	+21 48 50.4	51.5	+ 0.8
40	c	Persei	9	1 36.95	0.05	1.68	4 1 35.32	2.67	8 29 17.00	32.95	9.07	47 27 10.7	9.2	− 6.0
41	151	H^1. Cephei	9	5 59.12	+0.44	1.68	4 5 57.88	−17.54	46 19 12.02	29.78	63.34	85 17 59.1	59.4	−12.0
42	19	Ursæ Minoris S. P.	9	13 33.71	−0.15	1.68	16 13 31.88	+ 4.81	64 52 48.70	7.32	128.59	76 7 17.6	16.6	+12.3
43	δ	Tauri	9	17 20.48	+0.03	**1.65**	4 17 18.83	− 1.95	338 21 21.95	39.32	23.96	17 18 42.6	42.6	3.1
44	ε	Tauri	9	22 57.24	+0.03	**−1.68**	4 22 55.59	− 2.01	340 0 22.02	38.92	21.98	+18 57 44.6	44.2	+ 2.9
45	A	Draconis S. P	9	28 9.02	−0.10	−1.68	16 28 7.24	+ 3.04	72 0 31.02	49.30	184.88	+68 58 39.1	38.4	+10.7
46	α	Tauri	9	30 21.44	+0.03	**1.70**	4 30 19.79	− 2.00	337 21 20.18	38.78	25.22	+16 18 39.5	40.8	4.1
47	53	Eridani	9	33 44.91	0.03	1.68	4 33 43.26	1.70	306 33 41.20	59.38	81.38	−14 29 55.4	54.7	+12.0
48	35	B. Camelop......	9	35 46.71	0.14	1.68	4 35 45.17	6.80	36 47 25.85	42.92	45.36	+75 45 55.6	55.2	− 8.3
49	4	Camelop.........	9	39 55.28	0.06	1.68	4 39 53.66	3.42	17 37 0.48	19.02	19.29	56 35 4.4	5.5	4.9
50	9	Camelop.........	9	44 24.27	+0.09	−1.68	4 44 22.68	− 4.47	27 12 24.25	42.75	31.21	+66 10 40.0	41.1	− 6.2
51	π^5	Orionis..........	9	49 12.29	+0.03	**−1.66**	4 49 10.64	− 1.89	323 19 42.55	59.75	45.05	+ 2 16 42.2	42.0	+ 8.5
52	ε	Ursæ Minoris S. P.	9	55 51.15	−0.26	1.68	16 55 49.21	+10.22	58 48 46.30	2.60	100.02	82 11 48.3	49.6	+ 8.0
53	η	Aurigæ..........	9	59 42.73	+0.04	1.68	4 59 41.09	− 2.69	2 8 20.32	38.75	2.31	41 6 7.3	8.3	− 0.1
54	μ	Aurigæ..........	9	6 47.49	0.04	1.68	5 6 45.85	2.61	359 24 21.95	39.32	0.58	38 22 5.8	6.0	+ 1.1
55	α	Aurigæ..........	9	9 31.37	0.05	1.68	5 9 29.74	2.92	6 56 3.20	20.78	7.43	+45 53 55.3	55.4	− 0.3
56	τ	Orionis..........	9	12 54.44	+0.03	**−1.69**	5 12 52.79	− 1.91	314 6 6.55	24.75	62.47	− 6 57 11.2	10.4	+11.2

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
16 5 40	75.19	+0.5	−0.5
6 13	75.18	+0.2	−0.3
6 48	.....	...	+0.1
7 25	75.19	+0.2	+0.1
8 9	75.19	0.0	−0.5
17 4 1	75.69	−1.2	−2.0
4 32	.....	...	−2.5
4 51	75.77	−1.7	−2.6

Bisections are made at II and V, except as noted below.

1, 2, 8, 11, 13, 19, 22, 29, 35, 37, 40, 41, 48, 49, 50, 53, 55.	Bisections at III, V.
12.	Bisections at III, c_5.
20.	Bisections at III, IV.
25.	Bisections at II, VI.
26.	Bisection at b_3.
32.	Bisections at IV, V.
38, 42, 45, 52.	Bisections at V, III.

Notes.

1–13.	Seeing 3.
1, 22.	Observed head south.
6, 28.	Observed head north.
14–38.	Seeing 3–4.
24, 31.	Through clouds.
25.	Through clouds; poor.
26.	One bisection, both circles read.
28.	First bisection doubtful.
39–56.	Seeing 4–5.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1–38, from nadir......	+2	25.67	8.58
39–56, from nadir......	+2	29.76	12.23

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	B. D. +37° 1175..	9	18 3.76	+0.04	−1.68	5 18 2.12	− 2.62	358 19 52.78	10.38	1.72	+37 17 35.5	35.9	+ 2.0
2	17 Camelop.........	9	21 0.53	0.08	1.68	5 20 58.93	4.22	24 0 56.95	15.38	27.11	62 59 8.6	9.6	− 2.4
3	χ Aurigæ..........	9	26 25.02	0.04	1.68	5 26 23.38	2.49	353 9 29.42	47.60	7.24	+32 7 6.6	7.6	+ 3.8
4	α Leporis..........	9	28 28.07	0.02	1.68	5 28 26.41	1.93	303 10 2.60	19.42	92.56	−17 53 45.2	45.8	13.5
5	ε Orionis..........	9	31 18.12	0.03	**1.71**	5 31 16.47	2.02	319 47 5.42	22.48	51.26	− 1 16 1.2	1.5	10.6
6	B. D. +40° 1369..	9	34 16.65	+0.04	−1.68	5 34 15.01	− 2.78	1 51 56.35	14.52	2.02	+40 49 43.0	43.8	+ 2.6
7	α Columbæ........	9	36 9.60	+0.03	−1.68	5 36 7.95	− 1.99	286 57 42.85	59.60	196.20	−34 7 48.6	49.3	+15.7
8	ο Aurigæ..........	9	38 23.28	0.05	1.68	5 38 21.65	3.18	10 49 4.65	20.00	11.66	+49 46 60.9	58.8	1.5
9	κ Orionis..........	9	43 10.18	0.02	1.68	5 43 8.52	2.00	311 20 56.00	14.12	68.85	− 9 42 28.1	27.4	12.3
10	α Orionis..........	9	49 55.76	0.03	**1.68**	5 49 54.11	2.14	328 26 4.50	22.18	37.26	+ 7 23 11.9	12.2	9.7
11	β Aurigæ..........	9	52 24.96	+0.05	1.68	5 52 23.33	− 2.98	5 58 21.48	38.85	6.40	44 56 12.5	12.4	3.5
12	δ Ursæ Minoris S. P.	9	3 29.78	−0.61	−1.68	18 3 27.49	+26.12	54 24 0.32	19.88	84.82	+86 36 48.7	46.8	+ 0.9
13	η Geminorum	9	9 1.71	+0.03	−1.68	6 9 0.06	− 2.37	343 34 32.10	49.75	17.87	+22 31 58.8	59.1	+ 8.1
14	23 H. Camelop......	7	29 42.29	0.20	1.68	6 29 40.81	9.78	40 41 36.58	53.32	52.34	79 40 13.2	12.9	2.7
15	51 Aurigæ..........	9	31 56.57	0.04	1.68	6 31 54.93	2.81	0 30 45.80	4.02	0.59	39 28 31.0	31.8	7.2
16	S Monocerotis	9	35 38.76	0.03	**1.67**	6 35 37.11	2.25	331 1 50.38	7.50	33.61	9 59 1.4	1.2	10.9
17	ε Geminorum	9	37 58.31	0.03	**1.69**	6 37 56.66	2.46	346 16 1.68	21.65	14.82	25 13 31.4	34.1	9.4
18	ξ Geminorum	9	39 51.31	+0.03	**−1.69**	6 39 49.66	− 2.28	334 2 39.00	58.92	29.55	+12 59 54.0	56.6	+10.8
19	18 Monocerotis	9	42 48.89	+0.03	**−1.68**	6 42 47.24	− 2.20	323 33 59.42	16.65	44.82	+ 2 30 59.2	59.1	+11.8
20	θ Geminorum	9	46 24.17	0.04	1.68	6 46 22.53	2.65	355 6 58.22	15.95	5.16	34 4 37.5	38.0	8.9
21	15 Lyncis	9	48 53.02	0.07	1.68	6 48 51.41	3.84	19 34 52.20	11.20	21.70	58 32 58.5	60.0	6.6
22	51 H. Cephei	7	55 17.30	0.74	1.68	6 55 16.36	32.99	48 13 14.12	30.50	68.12	+87 12 6.7	5.8	4.8
23	γ Canis Majoris....	9	59 23.33	0.03	1.68	6 59 21.68	2.19	305 34 8.88	26.95	84.78	−15 29 31.2	30.5	13.2
24	B. D. +37° 1660..	9	2 2.99	+0.04	−1.68	7 2 1.35	− 2.74	358 38 3.05	20.45	1.41	+37 35 46.1	46.3	+ 9.5
25	δ Canis Majoris....	9	4 28.32	+0.03	−1.68	7 4 26.67	− 2.25	294 49 57.75	15.65	130.56	−26 14 28.0	27.6	+13.5
26	δ Draconis S. P.....	9	12 30.77	−0.09	1.68	19 12 29.00	+ 3.09	73 29 24.35	42.95	203.14	+67 29 27.5	26.5	− 5.2
27	19 Lyncis	9	14 57.56	+0.06	1.68	7 14 55.94	− 3.55	16 29 47.25	4.48	18.07	55 27 49.9	49.7	+ 9.1
28	λ Ursæ Minoris S.P.	.	.. ..	....	....	19 19	....	52 1 19.65	35.05	77.93	88 59 37.5	38.0	− 7.0
29	ι Geminorum	9	19 42.63	0.04	**1.69**	7 19 40.99	2.51	349 1 49.98	7.52	11.75	27 59 22.7	23.0	+11.4
30	ρ Geminorum	9	22 52.76	+0.04	−1.68	7 22 51.12	− 2.59	353 0 57.32	15.35	7.41	+31 58 34.4	35.2	+11.3
31	α Geminorum	9	28 25.15	+0.04	−1.68	7 28 23.51	− 2.59	353 8 24.90	42.25	7.28	+32 6 2.1	2.2	+11.6
32	B. D. +40° 1903..	9	30 39.86	0.04	1.68	7 30 38.22	2.79	1 16 41.65	59.70	1.40	40 14 27.7	28.3	11.3
33	24 Lyncis	9	34 48.48	0.07	1.68	7 34 46.87	3.75	19 58 5.58	24.20	22.17	58 56 12.3	14.5	10.6
34	β Geminorum	9	39 23.35	0.04	**1.68**	7 39 21.71	2.49	349 18 2.05	19.25	11.46	28 15 35.1	35.0	12.4
35	π Geminorum	9	41 15.55	0.04	1.68	7 41 13.91	2.60	354 41 30.65	49.90	5.61	33 39 9.5	11.5	12.3
36	166 B. Camelop	9	48 36.36	+0.13	−1.68	7 48 34.81	− 6.22	35 12 8.90	26.08	43.00	+74 10 36.3	36.1	+10.9
37	ω^1 Cancri...........	9	55 4.22	+0.03	**−1.67**	7 55 2.57	− 2.42	346 41 56.48	14.55	14.35	+25 39 26.6	27.4	+13.2
38	χ Geminorum	9	57 34.15	0.04	**1.66**	7 57 32.51	2.46	349 6 23.88	40.28	11.67	28 3 56.7	55.8	13.3
39	27 Lyncis	9	1 10.09	0.06	1.68	8 1 8.47	3.16	12 49 10.88	28.05	13.91	+51 47 9.4	9.1	13.1
40	ρ Argus	9	3 26.20	0.03	1.68	8 3 24.55	2.32	297 2 43.22	1.92	118.55	−24 1 30.5	29.3	12.1
41	173 B. Camelop	9	7 22.92	+0.15	1.68	8 7 21.39	− 6.71	37 4 40.50	57.28	46.07	+76 3 11.0	10.3	+12.5
42	κ Cephei S. P.......	9	12 8.42	−0.16	−1.68	20 12 6.58	+ 5.44	63 35 2.40	22.90	122.24	+77 25 10.2	7.3	−11.3

1902 JANUARY 20. CLAMP WEST.

HAMMOND, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
43	32^2 H. Camelop. S. P..	7	48 25.08	−0.91	−1.48	12 48 22.69	+ 0.98	57 4 19.90	.....	93.93	+83 56 20.2	....	+23.9
44	43 H. Cephei	4	55 20.80	+1.29	1.48	0 55 20.61	− 4.33	46 45 25.55	.....	64.39	85 44 15.9	....	−23.1
45	ε Piscium	9	57 53.52	0.05	**1.52**	0 57 52.09	0.68	328 24 40.35	.....	37.16	7 21 49.1	....	2.4
46	44 H. Cephei	9	3 50.99	0.51	1.48	1 3 50.02	2.52	40 10 52.80	.....	51.20	79 9 30.0	....	22.2
47	f Piscium	9	12 46.73	0.05	**1.45**	1 12 45.30	0.73	324 8 53.40	.....	43.72	3 5 55.6	....	0.4
48	α Ursæ Minoris....	9	23 41.66	+4.55	−1.48	1 23 44.73	−21.98	49 48 29.55	.....	71.83	+88 47 27.3	....	−22.7
49	13 B. Ursæ Minoris S. P.	9	34 50.68	−0.30	−1.48	13 34 48.90	+ 0.64	69 15 29.30	.....	159.44	+71 44 5.3	....	+22.7
50	ε Sculptoris	9	41 5.41	+0.03	1.48	1 41 3.96	− 0.54	295 31 38.25	.....	126.36	−25 32 42.2	....	+10.1
51	ε Cassiopeiæ	9	47 23.61	0.20	1.48	1 47 22.33	2.09	24 13 18.50	....	27.38	+63 11 31.8	....	−18.1
52	50 Cassiopeiæ	9	55 7.45	0.30	1.48	1 55 6.27	2.90	32 58 44.90	.....	39.51	71 57 10.4	....	19.5
53	α Arietis	9	1 41.44	0.07	**1.46**	2 1 40.03	1.25	344 2 32.45	.....	17.35	23 0 1.0	....	5.5
54	β Trianguli	9	3 45.41	+0.09	**−1.49**	2 3 44.02	− 1.44	355 33 52.35	.....	4.68	+34 31 33.6	....	− 9.3

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
17 5 31	75.66	−2.4	3.5
6 4	75.66	−2.5	3.5
6 45	75.62	−2.8	4.0
7 33	75.61	−3.2	4.2
8 9	75.61	−3.2	−4.3
20 0 52	76.30	1.2	−0.3
1 37	76.27	0.0	1.4

Bisections are made at II and V, except as noted below.

2, 6, 7, 8, 11, 15, 21, 27, 32, 33, 36, 39, 41.	Bisections at III, V.
12, 26, 42.	Bisections at V, III.
14, 22.	Bisections at III, IV.
28.	Bisections at c_4, b_3.
43–54.	Bisections at IV.

Notes.

1–42.	Seeing 4–5.
1, 24.	Observed head north.
4.	Circle A read on 8′ division.
6, 32.	Observed head south.
12.	Circle A read on 22′ division.
18.	Hurried.
19.	First bisection doubtful.
43–54.	Seeing 2–3.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1–42, from nadir.......	+2	29.76	12.23
43–54, from nadir.......	+2	30.95	....

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	55 Cassiopeiæ	9	6 50.94	+0.24	−1.48	2 6 49.70	− 2.55	27 5 56.12	.....	31.19	+66 4 13.3	....	−17.8
2	4 Ursæ Minoris S. P.	9	9 12.48	−0.46	1.48	14 9 10.54	+ 2.55	63 0 6.42	.....	119.10	+78 0 8.5	....	+21.6
3	κ Fornacis	9	18 5.81	+0.03	1.48	2 18 4.36	− 0.80	296 48 21.28	.....	119.68	−24 15 52.4	....	+11.3
4	ι Cassiopeiæ	9	21 3.13	0.24	1.48	2 21 1.89	2.84	27 59 43.85	.....	32.42	+66 58 2.2	....	−17.4
5	36 H. Cassiopeiæ	9	28 47.08	0.31	1.48	2 28 45.91	3.63	33 25 15.68	.....	40.23	72 23 41.9	....	18.0
6	142 H¹. Cephei	9	33 45.23	+0.61	−1.48	2 33 44.36	− 6.52	42 3 37.68	.....	54.98	+81 2 18.6	....	−18.9
7	γ Ceti	9	38 15.97	+0.05	−**1.51**	2 38 14.54	− 1.21	323 52 18.08	.....	44.36	+ 2 49 19.7	....	+ 3.2
8	β Fornacis	9	45 1.73	+0.03	1.48	2 45 0.28	− 0.87	288 16 0.25	.....	182.20	−32 49 16.0	....	14.4
9	β Ursæ Minoris S. P.	9	50 58.11	−0.35	1.48	14 50 56.28	+ 2.65	66 26 51.28	.....	139.15	+74 33 3.6	....	+19.1
10	47 H. Cephei	7	53 9.48	+0.50	1.48	2 53 8.50	− 6.04	40 3 33.70	.....	51.25	79 2 10.9	....	−17.4
11	α Ceti	9	57 12.10	+0.05	−**1.48**	2 57 10.67	− 1.34	324 45 13.18	.....	42.96	+ 3 42 16.2	....	+ 3.7

1902 JANUARY 28. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
12	A Tauri	9	58 57.22	+0.07	−**1.47**	3 58 55.80	− 1.82	342 51 23.45	41.48	19.24	+21 48 50.5	50.7	+ 1.0
13	c Persei	9	1 36.40	0.16	1.49	4 1 35.07	2.47	8 29 15.18	32.02	9.38	47 27 11.0	9.8	− 6.7
14	151 H¹. Cephei	5	5 55.46	+1.72	1.49	4 5 55.69	−15.37	46 19 10.58	28.52	65.52	85 18 1.6	1.6	−14.1
15	19 Ursæ Minoris S. P.	9	13 34.78	−0.57	1.49	16 13 32.72	+ 4.02	64 52 44.52	3.85	132.92	76 7 15.6	14.4	+14.6
16	δ Tauri	9	17 20.18	+0.06	**1.49**	4 17 18.75	− 1.84	338 21 19.75	37.05	24.77	17 18 41.3	40.8	3.4
17	ε Tauri	9	22 56.87	+0.06	−**1.46**	4 22 55.44	− 1.89	340 0 20.20	37.15	22.71	+18 57 43.8	43.0	+ 3.2
18	A Draconis S. P	9	28 9.93	−0.37	−1.49	16 28 8.07	+ 2.44	72 0 26.70	44.12	190.90	+68 58 35.6	36.3	+13.4
19	α Tauri	9	30 21.11	+0.06	**1.52**	4 30 19.68	− 1.88	337 21 18.35	35.95	26.04	+16 18 38.8	38.5	4.4
20	53 Eridani	9	33 44.58	0.00	1.49	4 33 43.09	1.56	306 33 40.65	58.28	84.02	−14 29 56.8	57.1	+13.5
21	35 B. Camelop	8	35 45.56	+0.56	1.49	4 35 44.63	6.20	36 47 23.75	42.15	46.83	+75 45 57.1	57.3	−10.3
22	4 Camelop	9	39 54.69	0.22	1.49	4 39 53.42	3.20	17 36 59.42	17.50	19.92	56 35 5.7	6.0	6.2
23	9 Camelop	6	44 23.67	+0.32	−1.49	4 44 22.50	− 4.15	27 12 23.32	41.15	32.21	+66 10 41.9	41.9	− 8.0
24	π⁵ Orionis	9	49 12.05	+0.03	−**1.51**	4 49 10.59	− 1.80	323 19 40.22	58.30	46.48	+ 2 16 40.2	40.5	+ 9.4
25	ε Ursæ Minoris S. P.	9	55 52.94	−1.03	1.49	16 55 50.42	+ 9.02	58 48 44.02	0.88	103.18	82 11 45.6	46.7	10.8
26	η Aurigæ	8	59 42.34	+0.13	1.49	4 59 40.98	− 2.56	2 8 19.02	37.58	2.38	41 6 8.0	8.7	− 0.9
27	μ Aurigæ	9	6 47.08	0.12	1.49	5 6 45.71	2.51	359 24 20.92	38.78	0.60	38 22 6.5	6.9	+ 0.3
28	α Aurigæ	9	9 30.96	0.16	1.49	5 9 29.63	2.79	6 56 2.62	19.55	7.66	+45 53 56.7	55.9	− 1.4
29	τ Orionis	9	12 54.16	+0.01	−**1.48**	5 12 52.68	− 1.82	314 6 4.72	23.35	64.39	− 6 57 13.2	12.2	+12.6
30	B. D. +37° 1175	9	18 3.32	+0.12	−1.49	5 18 1.95	− 2.53	358 19 52.32	9.40	1.78	+37 17 37.0	36.4	+ 1.3
31	17 Camelop	9	20 59.97	0.28	1.49	5 20 58.76	4.02	24 0 56.75	15.72	27.93	62 59 11.0	12.4	− 4.2
32	χ Aurigæ	9	26 24.69	+0.10	1.49	5 26 23.30	2.42	353 9 29.02	46.35	7.46	+32 7 8.0	7.7	+ 3.2
33	α Leporis	9	28 27.78	−0.01	1.49	5 28 26.28	1.84	303 10 0.90	17.82	95.30	−17 53 47.8	48.6	15.4
34	ε Orionis	9	31 17.82	+0.02	**1.47**	5 31 16.35	1.95	319 47 3.78	19.70	52.77	− 1 16 2.5	4.2	11.7
35	B.D. +40° 1369	9	34 16.26	+0.13	−1.49	5 34 14.90	− 2.70	1 51 56.15	13.55	2.08	+40 49 44.4	44.5	+ 1.6
36	α Columbæ	8	36 9.39	−0.05	−1.49	5 36 7.85	− 1.86	286 57 43.05	58.80	201.98	−34 7 52.4	54.2	+18.2
37	ο Aurigæ	9	38 22.82	+0.18	−1.49	5 38 21.51	− 3.08	10 49 3.90	19.25	12.00	+49 47 2.3	0.1	− 0.1

1902 FEBRUARY 2. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
38	A Tauri	9	58 56.90	+0.05	−**1.20**	3 58 55.73	− 1.75	342 51 20.90	38.40	18.21	+21 48 50.0	50.2	+ 1.1
39	c Persei	9	1 36.03	0.11	1.22	4 1 34.92	2.37	8 29 14.52	31.08	8.88	47 27 10.8	9.9	− 6.9
40	151 H¹. Cephei	9	5 54.66	+1.14	1.22	4 5 54.58	−14.29	46 19 13.18	30.80	62.03	85 18 1.7	1.9	−14.6
41	19 Ursæ Minoris S. P.	9	13 34.86	−0.38	1.22	16 13 33.26	+ 3.59	64 52 51.50	10.60	125.89	76 7 14.8	13.2	+15.4
42	δ Tauri	9	17 19.84	+0.04	**1.20**	4 17 18.66	− 1.77	338 21 18.28	34.70	23.45	17 18 42.1	41.3	3.6
43	ε Tauri	9	22 56.57	+0.05	−**1.21**	4 22 55.40	− 1.83	340 0 18.62	34.52	21.51	+18 57 44.4	43.0	+ 3.3
44	A Draconis S. P.	9	28 9.73	−0.25	−1.22	16 28 8.26	+ 2.15	72 0 36.70	53.32	180.84	+68 58 34.7	35.7	+14.4
45	α Tauri	9	30 20.79	+0.04	**1.24**	4 30 19.61	− 1.82	337 21 16.30	34.45	24.67	+16 18 38.9	39.8	4.6
46	53 Eridani	9	33 44.29	0.00	1.22	4 33 43.07	1.50	306 33 33.72	52.40	79.62	−14 29 58.4	57.2	+14.0
47	35 B. Camelop	9	35 45.04	+0.37	1.22	4 35 44.19	5.87	36 47 26.18	44.55	44.36	+75 45 57.7	58.6	−11.1
48	4 Camelop	9	39 54.42	0.15	1.22	4 39 53.35	3.08	17 37 0.52	18.48	18.87	56 35 6.7	7.3	6.7
49	9 Camelop	9	44 23.22	+0.22	−1.22	4 44 22.22	− 3.97	27 12 25.30	42.85	30.52	+66 10 43.1	43.2	− 8.7
50	π⁵ Orionis	9	49 11.67	+0.02	−**1.18**	4 49 10.47	− 1.74	323 19 36.75	54.18	44.06	+ 2 16 40.1	40.2	+ 9.7
51	ε Ursæ Minoris S. P.	9	55 53.07	−0.69	1.22	16 55 51.16	+ 8.37	58 48 49.15	6.82	97.81	82 11 44.9	44.8	+11.9
52	η Aurigæ	9	59 42.00	+0.09	1.22	4 59 40.87	− 2.49	2 8 18.62	37.22	2.26	+41 6 8.2	9.5	− 1.2
53	β Eridani	9	3 4.84	0.02	**1.22**	5 3 3.64	1.73	315 50 10.00	28.30	57.48	− 5 12 60.1	59.1	+12.4
54	μ Aurigæ	9	6 46.84	0.08	1.22	5 6 45.70	2.44	359 24 19.90	37.42	0.57	+38 22 6.5	6.8	0.0
55	α Aurigæ	9	9 30.71	+0.11	−1.22	5 9 29.60	− 2.71	6 56 2.20	19.58	7.26	+45 53 56.8	56.8	− 1.9

Time.		Barom.	Att. Ther.	Ext. Ther.
d	h m	cm.	°	°
20	2 13	76.23	−0.6	−2.0
	3 1	76.17	−1.4	−2.4
28	4 4	77.31	−4.7	−5.4
	4 47	77.31	−4.7	−5.4
	5 30	77.29	−4.7	−5.5
2	3 54	74.75	+0.5	+0.1
	4 37	74.71	0.0	−0.3

Bisections are made at II and V, except as noted below.

1–11.	Bisections at IV.
13, 14, 19, 22, 23, 28, 30, 31, 32, 36, 37, 39, 40, 47, 48, 49, 52, 55.	Bisections at III, V.
15, 18, 25, 41, 44, 51.	Bisections at V, III.
21, 26.	Bisections at IV, V.

Notes.

1–11.	Seeing 2–3, worse at end.
5.	Unsteady.
8.	Very unsteady; poor observation.
8.	Circle A read on 14′ division.
12–37.	Seeing 2–3.
14.	Clouds.
16, 18, 23.	Through clouds; poor.
28.	Circle A read on 54′ division.
30, 32.	Observed head south.
33.	Circle A read on 8′ division.
35.	Observed head north.
36.	Through clouds.
38–55.	Seeing 3.
44.	Very unsteady.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–11, from nadir	+2 30.95	.....
12–37, from nadir $\left\{\begin{matrix}3^h & 45^m\\ 6 & 10\end{matrix}\right\}$	2 31.55	13.38 14.03
38–55, from nadir	+2 32.49	15.00

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	τ Orionis	9	12 53.87	+0.01	**−1.25**	5 12 52.66	− 1.76	314 5 59.88	18.72	61.08	− 6 57 13.8	12.3	+13.1
2	B. D. +37° 1175	9	18 3.08	0.08	1.22	5 18 1.94	2.46	358 19 50.62	9.42	1.69	+37 17 36.3	37.7	+ 1.1
3	17 Camelop.	9	20 59.64	0.19	1.22	5 20 58.61	3.89	24 0 57.60	15.95	26.50	62 59 11.4	12.3	− 5.0
4	χ Aurigæ	9	26 24.38	+0.07	1.22	5 26 23.23	2.36	353 9 27.20	44.75	7.08	+32 7 7.3	7.7	+ 3.0
5	α Leporis	9	28 27.50	0.00	1.22	5 28 26.28	1.78	303 9 55.25	12.08	90.49	−17 53 47.8	48.3	16.1
6	ε Orionis	9	31 17.54	+0.02	**−1.24**	5 31 16.34	− 1.90	319 47 0.32	16.38	50.11	− 1 16 2.4	3.7	+12.2
7	B. D. +40° 1369	9	34 15.98	+0.09	−1.22	5 34 14.85	− 2.64	1 51 54.38	12.60	1.98	+40 49 43.7	44.6	+ 1.3
8	α Columbæ	9	36 9.06	−0.02	1.22	5 36 7.82	1.78	286 57 31.82	50.10	191.91	−34 7 52.5	51.7	+19.2
9	ο Aurigæ	9	38 22.57	+0.12	1.22	5 38 21.47	3.00	10 49 2.85	19.42	11.40	+49 47 1.6	0.8	− 0.7
10	κ Orionis	9	43 9.61	0.01	1.22	5 43 8.40	1.88	311 20 49.30	6.92	67.36	− 9 42 30.6	30.4	+14.6
11	α Orionis	9	49 55.28	0.03	**1.29**	5 49 54.09	2.05	328 25 58.58	16.85	36.47	+ 7 23 9.5	10.4	10.7
12	β Aurigæ	9	52 24.31	+0.10	−1.22	5 52 23.19	− 2.85	5 58 20.02	37.92	6.27	+44 56 13.6	14.2	+ 1.6
13	δ Ursæ Minoris S. P.	9	3 33.12	−1.59	−1.22	18 3 30.31	+23.37	54 24 4.70	21.58	83.12	+86 36 43.3	44.0	+ 5.5
14	η Geminorum	9	9 1.23	+0.05	1.22	6 9 0.06	− 2.31	343 34 29.15	46.50	17.51	22 31 58.9	59.0	+ 8.0
15	23 H. Camelop.	7	29 40.94	0.52	1.22	6 29 40.24	9.23	40 41 38.65	55.90	51.32	79 40 17.0	16.8	− 1.7
16	51 Aurigæ	9	31 56.02	0.09	1.22	6 31 54.89	2.77	0 30 44.00	1.75	0.58	39 28 32.0	32.3	+ 5.6
17	*S* Monocerotis	9	35 38.28	0.04	**1.22**	6 35 37.10	2.23	331 1 45.15	2.32	32.97	9 58 59.5	59.4	11.9
18	ε Geminorum	9	37 57.77	+0.06	**−1.19**	6 37 56.61	− 2.45	346 15 58.60	17.60	14.54	+25 13 31.3	33.1	+ 8.9
19	ξ Geminorum	9	39 50.79	+0.04	**−1.20**	6 39 49.61	− 2.26	334 2 33.95	53.72	28.99	+12 59 52.3	54.8	+11.5
20	18 Monocerotis	9	42 48.42	0.02	**1.22**	6 42 47.22	2.18	323 33 52.78	11.62	43.97	2 30 56.2	57.7	13.5
21	θ Geminorum	9	46 23.64	0.08	1.22	6 46 22.50	2.63	355 6 56.28	15.00	5.06	34 4 38.4	39.9	7.7
22	15 Lyncis	9	48 52.38	0.16	1.22	6 48 51.32	3.78	19 34 52.45	10.75	21.30	58 33 1.1	2.0	+ 3.4
23	51 H. Cephei	7	55 13.81	+1.92	1.22	6 55 14.51	31.42	48 13 16.12	33.80	66.90	+87 12 10.3	10.5	0.0
24	γ Canis Majoris	9	59 22.86	0.00	−1.22	6 59 21.64	− 2.17	305 33 59.65	19.75	83.27	−15 29 36.2	33.4	+16.5
25	B. D. +37° 1660	9	2 2.52	+0.08	−1.22	7 2 1.38	− 2.76	358 38 1.55	19.32	1.38	+37 35 47.3	47.9	+ 8.1
26	δ Canis Majoris	9	4 27.87	−0.01	1.22	7 4 26.64	− 2.21	294 49 48.85	5.95	128.26	−26 14 31.9	32.2	17.5
27	δ Draconis S. P	9	12 30.86	−0.23	1.22	19 12 29.41	+ 2.78	73 29 31.02	47.90	199.71	+67 29 21.5	22.2	0.2
28	19 Lyncis	9	14 57.07	+0.14	1.22	7 14 55.99	− 3.57	16 29 47.05	4.75	17.77	55 27 52.2	52.5	+ 6.1
29	λ Ursæ Minoris S. P.	.	.. .. ..	....	....	19 19	....	52 1 23.68	38.85	76.65	88 59 32.0	32.7	− 2.0
30	ι Geminorum	9	19 42.20	+0.06	**−1.24**	7 19 41.04	− 2.55	349 1 47.52	3.98	11.56	+27 59 23.2	22.4	+10.7
31	ρ Geminorum	9	22 52.36	+0.07	−1.22	7 22 51.21	− 2.63	353 0 55.28	12.45	7.29	+31 58 35.2	35.2	+10.3
32	α Geminorum	6	28 24.77	0.07	1.22	7 28 23.62	2.64	353 8 21.82	39.42	7.16	32 6 2.2	2.2	10.6
33	B. D. +40° 1903	9	30 39.48	0.09	1.22	7 30 38.35	2.85	1 16 40.58	58.80	1.38	40 14 29.3	30.2	9.6
34	24 Lyncis	9	34 48.02	0.16	1.22	7 34 46.96	3.81	19 58 7.08	24.78	21.82	58 56 16.2	16.5	7.3
35	β Geminorum	9	39 22.99	0.06	**1.27**	7 39 21.83	2.56	349 17 59.28	15.55	11.28	28 15 35.2	34.3	11.8
36	π Geminorum	9	41 15.21	+0.07	−1.22	7 41 14.06	− 2.67	354 41 28.72	47.30	5.52	+33 39 10.4	11.8	+11.1
37	166 B. Camelop.	9	48 35.77	+0.34	−1.22	7 48 34.89	− 6.31	35 12 9.78	28.02	42.34	+74 10 39.3	40.1	+ 6.5
38	ω¹ Cancri	9	55 3.86	0.06	**1.23**	7 55 2.70	2.53	346 41 52.70	10.48	14.14	25 39 25.8	26.4	12.9
39	χ Geminorum	9	57 33.78	0.06	**1.21**	7 57 32.62	2.56	349 6 21.05	37.88	11.50	28 3 56.8	56.4	12.7
40	27 Lyncis	9	1 9.69	+0.13	1.22	8 1 8.60	3.30	12 49 10.10	27.40	13.70	+51 47 11.1	11.0	10.3
41	ρ Argus	9	3 25.88	−0.01	1.22	8 3 24.65	2.37	297 2 34.72	52.90	116.82	−24 1 34.6	33.8	16.2
42	173 B. Camelop.	9	7 22.42	+0.38	1.22	8 7 21.58	− 6.92	37 4 41.92	0.38	45.40	+76 3 14.4	15.5	+ 8.1
43	κ Cephei S. P	9	12 8.35	−0.42	−1.22	20 12 6.71	+ 5.43	63 35 5.10	24.32	120.50	+77 25 6.5	4.9	− 5.9

1902 FEBRUARY 3. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
44	*A* Tauri	9	58 56.96	+0.04	**−1.27**	3 58 55.74	− 1.73	342 51 20.72	38.68	19.01	+21 48 48.6	49.7	+ 1.1
45	*c* Persei	9	1 36.13	0.08	1.26	4 1 34.95	2.34	8 29 14.25	30.22	9.27	47 27 10.5	9.5	− 6.9
46	151 H¹. Cephei	9	5 54.74	+0.33	1.26	4 5 53.81	−14.04	46 19 10.70	28.30	64.73	85 18 1.6	2.2	−14.8
47	19 Ursæ Minoris S. P.	9	13 34.79	−0.25	1.26	16 13 33.28	+ 3.50	64 52 46.65	5.98	131.37	76 7 14.5	12.3	+15.6
48	δ Tauri	9	17 19.82	+0.04	**1.19**	4 17 18.60	− 1.76	338 21 20.02	36.35	24.48	17 18 42.5	42.0	3.6
49	ε Tauri	9	22 56.63	+0.04	**−1.27**	4 22 55.41	− 1.82	340 0 19.78	35.98	22.45	+18 57 44.3	43.7	+ 3.3
50	*A* Draconis S. P	9	28 9.74	−0.16	−1.26	16 28 8.32	+ 2.09	72 0 28.42	46.28	188.71	+68 58 35.5	34.7	+14.7
51	α Tauri	9	30 20.84	+0.04	**1.30**	4 30 19.62	− 1.81	337 21 17.15	34.72	25.75	+16 18 38.4	39.2	4.6
52	53 Eridani	9	33 44.28	0.01	1.26	4 33 43.03	1.48	306 33 38.48	56.30	83.08	−14 29 57.5	56.5	+14.2
53	35 B. Camelop.	9	35 45.22	0.24	1.26	4 35 44.20	5.81	36 47 26.00	42.55	46.31	+75 45 59.1	58.8	−11.3
54	4 Camelop.	9	39 54.42	0.10	1.26	4 39 53.26	3.05	17 36 59.60	17.02	19.70	56 35 6.3	6.8	6.8
55	9 Camelop.	9	44 23.33	+0.14	−1.26	4 44 22.21	− 3.94	27 12 23.98	41.18	31.86	+66 10 42.8	43.1	− 8.8

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
2 5 23	74.71	−0.5	−0.8
6 25	74.78	−1.0	−1.6
7 18	74.87	−1.9	−2.4
8 9	74.90	−2.5	−2.9
3 3 58	75.54	−7.0	−8.2
4 32	75.52	−7.5	−8.5

Bisections are made at II and V, except as noted below.

2, 3, 7, 9, 12, 15, 16, 22, 28, 33, 34, 37, 40, 42, 45, 46, 53, 54, 55. } Bisections at III, V.
13, 27, 43, 47, 50. Bisections at V, III.
23. Bisections at c_1, c_5.
29. Bisections at c_4, b_3.
32. Bisections at IV, V.

Notes.

1–12. Seeing 3.
2, 25. Observed head north.
7, 33. Observed head south.
8. Last bisection doubtful.
10. First bisection doubtful.
13–24. Seeing 2.
25–43. Seeing 2–3.
44–55. Seeing 1–2.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–43, from nadir......	+2 32.94	15.00
44–55, from nadir......	+2 32.14	*

*Interpolated from diagram.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\varDelta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	π^5 Orionis	9	49 11.67	+0.02	**−1.19**	4 49 10.43	− 1.73	323 19 39.55	56.75	45.99	+ 2 16 40.6	41.0	+ 9.8
2	ε Ursæ Minoris S. P.	9	55 53.00	−0.42	1.26	16 55 51.32	+ 8.23	58 48 46.40	1.72	102.12	82 11 43.7	45.4	+12.1
3	η Aurigæ	9	59 42.05	+0.06	1.26	4 59 40.85	− 2.47	2 8 18.70	36.18	2.36	+41 6 8.1	8.8	− 1.3
4	β Eridani	9	3 4.83	0.02	**1.22**	5 3 3.59	1.72	315 50 13.80	31.68	60.01	− 5 12 59.1	58.0	+12.5
5	μ Aurigæ	9	6 46.86	0.06	1.26	5 6 45.66	2.42	359 24 21.38	37.02	0.60	+38 22 7.6	6.7	0.0
6	α Aurigæ	9	9 30.68	+0.07	−1.26	5 9 29.49	− 2.69	6 56 3.12	19.88	7.58	+45 53 57.7	57.8	− 1.9
7	τ Orionis	9	12 53.81	+0.02	**−1.21**	5 12 52.57	− 1.75	314 6 3.08	20.85	63.74	− 6 57 13.6	12.5	+13.2
8	B. D. +37° 1175	9	18 3.11	0.05	1.26	5 18 1.90	2.45	358 19 51.88	7.82	1.76	+37 17 37.2	36.4	+ 1.0
9	17 Camelop	9	20 59.76	0.11	1.26	5 20 58.61	3.86	24 0 57.48	15.28	27.66	62 59 12.1	13.2	− 5.2
10	χ Aurigæ	9	26 24.44	0.05	1.26	5 26 23.23	2.35	353 9 28.80	45.35	7.39	+32 7 8.2	8.4	+ 2.9
11	α Leporis	9	28 27.45	0.01	1.26	5 28 26.20	1.77	303 9 59.12	15.35	94.38	−17 53 48.1	48.6	16.3
12	ε Orionis	9	31 17.57	+0.02	**−1.28**	5 31 16.33	− 1.89	319 47 3.40	19.32	52.26	− 1 16 1.8	2.5	+12.3
13	B. D. +40° 1369	9	34 16.06	+0.06	−1.26	5 34 14.86	− 2.62	1 51 56.85	14.32	2.06	+40 49 45.7	46.8	+ 1.2
14	α Columbæ	9	36 9.05	0.01	1.26	5 36 7.80	1.77	286 57 40.90	58.12	199.98	−34 7 51.8	51.3	+19.4
15	ο Aurigæ	9	38 22.68	0.07	1.26	5 38 21.49	2.99	10 49 4.58	19.55	11.88	+49 47 3.5	1.8	− 0.8
16	κ Orionis	9	43 9.60	0.02	1.26	5 43 8.36	1.87	311 20 53.10	10.65	70.18	− 9 42 30.0	29.0	+14.6
17	α Orionis	9	49 55.27	0.03	**1.29**	5 49 54.04	2.04	328 26 0.18	18.15	37.99	+ 7 23 9.2	10.7	10.7
18	β Aurigæ	9	52 24.35	+0.06	−1.26	5 52 23.15	− 2.84	5 58 20.72	37.70	6.53	+44 56 14.3	14.7	+ 1.4
19	δ Ursæ Minoris S. P.	9	3 33.06	−0.76	−1.26	18 3 31.04	+23.14	54 24 1.45	19.50	86.50	+86 36 43.5	42.2	+ 5.7
20	η Geminorum	9	9 1.23	+0.03	1.26	6 9 0.00	− 2.31	343 34 30.68	46.90	18.22	22 31 59.4	59.3	+ 8.0
21	23 H. Camelop	7	29 41.37	0.20	1.26	6 29 40.31	9.22	40 41 37.65	53.38	53.31	79 40 17.6	17.0	− 1.9
22	51 Aurigæ	9	31 56.06	0.04	1.25	6 31 54.85	2.76	0 30 44.38	0.40	0.60	39 28 32.0	31.7	+ 5.5
23	*S* Monocerotis	9	35 38.30	0.02	**1.23**	6 35 37.07	2.22	331 1 47.80	3.92	34.24	9 59 0.5	0.4	11.9
24	ε Geminorum	9	37 57.91	+0.03	**−1.31**	6 37 56.69	− 2.44	346 16 1.45	20.18	15.10	+25 13 33.2	35.8	+ 8.9
25	ξ Geminorum	9	39 50.91	+0.03	**−1.31**	6 39 49.69	− 2.26	334 2 37.32	54.30	30.10	+12 59 54.2	55.0	+11.5
26	18 Monocerotis	9	42 48.49	0.02	**1.29**	6 42 47.26	2.18	323 33 55.48	13.98	45.65	2 30 56.8	59.1	13.6
27	θ Geminorum	9	46 23.71	0.03	1.25	6 46 22.49	2.63	355 6 57.72	15.55	5.25	34 4 39.3	41.0	7.6
28	15 Lyncis	9	48 52.56	0.06	1.25	6 48 51.37	3.77	19 34 51.62	10.60	22.10	58 33 0.7	3.4	+ 3.1
29	51 H. Cephei	8	55 15.49	0.57	1.25	6 55 14.81	31.27	48 13 15.92	.....	69.36	87 12 12.2	....	− 0.2
30	B. D. +37° 1660	9	2 2.57	+0.03	−1.25	7 2 1.35	− 2.75	358 38 1.72	18.08	1.43	+37 35 47.3	47.5	+ 8.0
31	δ Canis Majoris	9	4 27.83	+0.03	−1.25	7 4 26.61	− 2.20	294 49 53.68	9.85	132.89	−26 14 32.0	32.1	+17.7
32	δ Draconis S. P.	9	12 30.72	−0.06	1.25	19 12 29.41	+ 2.74	73 29 23.55	40.35	206.78	+67 29 22.3	21.8	0.6
33	19 Lyncis	9	14 57.16	+0.04	1.25	7 14 55.95	− 3.56	16 29 47.58	4.18	18.40	55 27 53.0	53.4	+ 5.9
34	λ Ursæ Minoris S. P.	.	.. ..	....	....	19 19	....	52 1 21.58	36.02	79.36	88 59 31.8	31.0	− 1.6
35	ι Geminorum	9	19 42.21	0.02	**1.21**	7 19 40.98	2.55	349 1 49.10	5.00	11.97	27 59 24.0	23.9	+10.7
36	ρ Geminorum	9	22 52.38	+0.02	−1.25	7 22 51.15	− 2.63	353 0 56.72	12.85	7.55	+31 58 36.0	36.2	+10.2
37	α Geminorum	9	28 24.76	+0.02	−1.25	7 28 23.53	− 2.64	353 8 23.18	39.60	7.41	+32 6 2.6	3.1	+10.6
38	B. D. +40° 1903	9	30 39.54	0.02	1.25	7 30 38.31	2.85	1 16 42.42	59.55	1.43	40 14 30.6	31.9	9.5
39	24 Lyncis	9	34 48.13	0 02	1.25	7 34 46.90	3.81	19 58 6.80	24.22	22.58	58 56 16.3	17.7	7.0
40	β Geminorum	9	39 23.02	0.02	**1.26**	7 39 21.79	2.56	349 18 0.22	15.70	11.67	28 15 35.4	35.0	11.7
41	π Geminorum	9	41 15.24	0.02	1.25	7 41 14.01	2.68	354 41 30.22	47.65	5.71	33 39 11.3	12.9	11.0
42	166 B. Camelop	9	48 36.21	+0.02	−1.25	7 48 34.98	− 6.30	35 12 8.72	26.50	43.78	+74 10 39.3	41.1	+ 6.2
43	ω^1 Cancri	9	55 3.92	+0.02	**−1.25**	7 55 2.69	− 2.53	346 41 54.00	11.18	14.61	+25 39 26.3	27.7	+12.9
44	χ Geminorum	9	57 33.90	+0.01	**1.27**	7 57 32.66	2.57	349 6 21.95	37.02	11.89	28 3 56.9	56.2	12.6
45	27 Lyncis	9	1 9.86	0.00	1.25	8 1 8.61	3.30	12 49 9.88	26.58	14.16	+51 47 11.0	11.8	10.1
46	ρ Argus	9	3 25.87	+0.04	1.25	8 3 24.66	2.37	297 2 39.55	55.68	120.67	−24 1 33.9	33.8	16.5
47	173 B. Camelop	9	7 23.01	−0.02	1.25	8 7 21.74	− 6.92	37 4 41.52	56.72	46.90	+76 3 15.2	14.5	+ 7.7
48	κ Cephei S. P.	9	12 7.87	+0.04	−1.25	20 12 6.66	+ 5.41	63 35 3.05	19.75	124.42	+77 25 6.0	4.4	− 5.5

1902 FEBRUARY 4. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\varDelta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
49	*A* Tauri	9	58 57.01	+0.04	**−1.34**	3 58 55.72	− 1.71	342 51 21.62	38.88	18.93	+21 48 49.2	49.6	+ 1.1
50	*c* Persei	9	1 36.23	0.09	1.33	4 1 34.99	2.32	8 29 15.48	30.72	9.23	47 27 11.3	9.6	− 6.9
51	151 H^1. Cephei	9	5 55.18	+0.84	1.33	4 5 54.69	−13.83	46 19 11.22	28.55	64.46	85 18 1.3	1.8	−14.9
52	19 Ursæ Minoris S. P.	9	13 34.90	−0.28	1.33	16 13 33.29	+ 3.41	64 52 47.22	5.42	130.83	76 7 14.9	13.8	+15.9
53	δ Tauri	9	17 19.99	+0.04	**1.38**	4 17 18.70	− 1.74	338 21 19.40	36.32	24.38	17 18 41.5	41.6	3.7
54	ε Tauri	9	22 56.67	+0.04	**1.33**	4 22 55.37	− 1.80	340 0 19.15	36.52	22.36	18 57 43.2	43.9	3.4
55	*A* Draconis S. P.	9	28 9.74	−0.17	1.34	16 28 8.23	+ 2.02	72 0 28.72	45.32	187.93	68 58 36.5	36.9	14.8
56	α Tauri	9	30 20.88	+0.04	**−1.36**	4 30 19.58	− 1.79	337 21 17.85	35.78	25.64	+16 18 38.6	39.8	+ 4.6

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm	°	°
3 5 5	75.49	−7.9	−9.0
6 3	75.50	−8.4	−9.0
6 55	75.46	−8.6	−9.1
8 9	75.42	−8.9	−9.4
4 4 6	75.32	−6.8	−7.9

Bisections are made at II and V, except as noted below.

2, 19, 32, 48, 52, 55.	Bisections at V, III.
3, 6, 8, 9, 15, 18, 21, 22, 28, 30, 33, 39, 42, 45, 47, 50, 51.	Bisections at III, V.
29.	Bisection at c_1.
34.	Bisections at c_4, b_2.

Notes.

1–48.	Seeing 1–2.
7.	Circle A read on 4′ division.
8, 30.	Observed head south.
11.	First bisection doubtful.
13, 38.	Observed head north.
14, 17.	Observation very poor.
17.	Circle A read on 24′ division.
19.	Circle A read on 22′ division.
19.	Unsteady.
40.	Circle A read on 16′ division.
49–56.	Seeing 3.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–48, from nadir	+2 32.14	*
49–56, from nadir	*	14.68

*Interpolated from diagram.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
									A.	B.		A.	B.	
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	53	Eridani..........	9	33 44.35	+0.02	−1.34	4 33 43.03	− 1.47	306 33 37.75	56.05	82.74	−14 29 58.4	56.9	+14.2
2	35	B. Camelop	9	35 45.28	0.25	1.34	4 35 44.19	5.74	36 47 26.52	43.28	46.11	+75 45 58.9	58.8	−11.4
3	4	Camelop..........	9	39 54.59	0.10	1.34	4 39 53.35	3.03	17 37 0.70	17.95	19.62	56 35 6.7	7.2	6.9
4	9	Camelop..........	9	44 23.33	0.14	1.34	4 44 22.13	3.90	27 12 24.35	41.82	31.73	66 10 42.4	43.1	− 8.9
5	π^5	Orionis..........	9	49 11.79	+0.02	**1.33**	4 49 10.47	− 1.71	323 19 39.28	56.20	45.80	2 16 39.9	40.1	+ 9.9
6	ε	Ursæ Minoris S. P.	9	55 53.33	−0.43	−1.34	16 55 51.56	+ 8.11	58 48 46.90	2.48	101.72	+82 11 44.2	45.6	+12.3
7	η	Aurigæ..........	9	59 42.13	+0.06	−1.34	4 59 40.85	− 2.45	2 8 19.78	36.90	2.35	+41 6 8.5	8.9	− 1.3
8	β	Eridani..........	9	3 4.90	0.02	**1.30**	5 3 3.57	1.71	315 50 13.30	31.25	59.76	− 5 12 60.0	58.8	+12.6
9	μ	Aurigæ..........	9	6 46.96	0.06	1.35	5 6 45.67	2.41	359 24 21.70	37.72	0.59	+38 22 7.3	6.8	− 0.1
10	α	Aurigæ..........	9	9 30.75	0.07	1.35	5 9 29.47	2.68	6 56 4.05	20.28	7.55	+45 53 58.0	57.5	− 2.0
11	τ	Orionis..........	9	12 53.99	0.02	**1.40**	5 12 52.66	1.74	314 6 4.60	22.10	63.50	− 6 57 12.5	11.7	+13.3
12		B. D. + 37° 1175..	9	18 3.21	+0.05	−1.35	5 18 1.91	− 2.43	358 19 52.62	8.98	1.75	+37 17 37.2	36.9	+ 1.0
13	17	Camelop..........	9	20 59.79	+0.11	−1.35	5 20 58.55	− 3.83	24 0 58.48	15.70	27.56	+62 59 12.3	12.8	− 5.3
14	χ	Aurigæ..........	9	26 24.52	0.05	1.35	5 26 23.22	2.34	353 9 29.18	45.75	7.37	+32 7 8.0	8.0	+ 2.9
15	α	Leporis	9	28 27.53	0.02	1.35	5 28 26.20	1.76	303 9 59.88	16.52	94.12	−17 53 47.8	47.8	16.4
16	ε	Orionis..........	9	31 17.61	0.02	**1.33**	5 31 16.28	1.88	319 47 3.95	19.20	52.13	− 1 16 1.9	3.2	12.4
17		B. D. + 40° 1369..	9	34 16.23	0.06	1.35	5 34 14.94	2.60	1 51 57.62	13.72	2.06	+40 49 45.7	45.4	1.1
18	α	Columbæ........	9	36 9.07	+0.05	−1.35	5 36 7.77	− 1.76	286 57 41.60	58.02	199.53	−34 7 51.5	51.7	+19.6
19	ο	Aurigæ..........	9	38 22.78	+0.07	−1.35	5 38 21.50	− 2.97	10 49 4.88	19.10	11.86	+49 47 3.0	0.6	− 1.0
20	κ	Orionis..........	9	43 9.72	0.02	1.35	5 43 8.39	1.86	311 20 54.15	10.88	70.08	− 9 42 29.6	29.5	+14.8
21	α	Orionis..........	9	49 55.36	0.03	**1.39**	5 49 54.04	2.03	328 26 2.75	19.22	37.95	+ 7 23 11.0	11.0	10.8
22	β	Aurigæ..........	9	52 24.44	+0.06	1.35	5 52 23.15	− 2.83	5 58 23.20	39.58	6.52	44 56 16.0	15.8	1.3
23	δ	Ursæ Minoris S. P.	9	3 33.26	−0.78	1.35	18 3 31.13	+22.97	54 24 4.20	19.90	86.50	86 36 41.6	42.6	5.9
24	η	Geminorum	9	9 1.28	+0.03	−1.35	6 8 59.96	− 2.30	343 34 31.38	47.88	18.23	+22 31 59.2	59.3	+ 8.0
25	23	H. Camelop......	7	29 41.34	+0.22	−1.35	6 29 40.21	− 9.12	40 41 37.82	54.42	53.40	+79 40 17.0	16.7	− 2.1
26	51	Aurigæ..........	9	31 56.18	0.04	1.35	6 31 54.87	2.75	0 30 45.90	2.72	0.60	39 28 32.6	32.6	+ 5.4
27	S	Monocerotis	9	35 38.39	0.03	**1.33**	6 35 37.07	2.22	331 1 48.58	4.60	34.28	9 58 60.4	59.7	12.0
28	18	Monocerotis	9	42 48.58	0.02	**1.39**	6 42 47.25	2.17	323 33 57.40	15.42	45.72	2 30 57.8	59.1	13.6
29	θ	Geminorum	9	46 23.81	0.04	1.35	6 46 22.50	2.63	355 6 59.15	16.05	5.26	34 4 39.8	40.1	7.5
30	15	Lyncis	9	48 52.61	+0.07	−1.36	6 48 51.32	− 3.76	19 34 54.25	12.35	22.13	+58 33 2.4	3.8	+ 3.0
31	51	H. Cephei	7	55 15.09	+0.70	−1.36	6 55 14.43	−31.13	48 13 17.05	31.85	69.49	+87 12 12.5	10.6	− 0.5
32	γ	Canis Majoris....	9	59 22.99	0.02	1.36	6 59 21.65	2.16	305 34 5.58	22.60	86.48	−15 29 34.7	34.4	+16.9
33		B. D. + 37° 1660..	9	2 2.66	0.04	1.36	7 2 1.34	2.74	358 38 2.62	19.65	1.44	+37 35 47.2	47.7	7.9
34	δ	Canis Majoris....	9	4 28.01	+0.02	1.36	7 4 26.67	− 2.20	294 49 53.72	10.78	133.17	−26 14 33.2	32.8	17.9
35	δ	Draconis S. P.....	9	12 30.98	−0.08	1.36	19 12 29.54	+ 2.73	73 29 24.60	40.90	207.11	+67 29 21.9	22.3	0.8
36	19	Lyncis	9	14 57.26	+0.05	−1.36	7 14 55.95	− 3.55	16 29 48.88	5.15	18.43	+55 27 53.3	53.1	+ 5.7
37	λ	Ursæ Minoris S. P.	.	.. ..	....	....	19 19	....	52 1 23.45	37.82	79.49	+88 59 30.8	31.3	− 1.4
38	ι	Geminorum	9	19 42.28	+0.03	**−1.29**	7 19 40.95	− 2.55	349 1 49.75	4.60	11.98	27 59 23.6	22.2	+10.6
39	ρ	Geminorum	9	22 52.51	0.03	1.36	7 22 51.18	2.63	353 0 56.72	14.02	7.56	31 58 35.0	36.0	10.1
40	α	Geminorum	9	28 24.86	0.03	1.37	7 28 23.52	2.64	353 8 24.70	39.92	7.42	32 6 3.1	2.1	10.4
41		B. D. + 40° 1903..	9	30 39.72	0.03	1.37	7 30 38.38	2.85	1 16 42.90	59.50	1.43	40 14 30.1	30.6	9.4
42	24	Lyncis	9	34 48.26	+0.05	−1.37	7 34 46.94	− 3.81	19 58 7.05	23.92	22.60	+58 56 15.6	16.1	+ 6.8
43	β	Geminorum	9	39 23.17	+0.03	**−1.40**	7 39 21.83	− 2.58	349 18 0.75	16.05	11.68	+28 15 34.9	34.1	+11.7
44	π	Geminorum	9	41 15.38	0.03	1.37	7 41 14.04	2.68	354 41 31.22	48.02	5.72	33 39 11.3	12.0	10.9
45	166	B. Camelop......	9	48 36.20	0.09	1.37	7 48 34.92	6.29	35 12 10.48	27.25	43.0	74 10 40.0	40.6	5.9
46	ω^1	Cancri..........	9	55 4.05	0.03	**1.38**	7 55 2.71	2.54	346 41 55.72	12.10	14.62	25 39 26.9	27.3	12.8
47	χ	Geminorum	9	57 33.96	0.03	**1.35**	7 57 32.62	2.57	349 6 23.50	38.78	11.89	28 3 57.4	56.7	12.6
48	27	Lyncis	9	1 9.88	+0.04	−1.37	8 1 8.55	− 3.30	12 49 11.42	27.62	14.16	+51 47 11.4	11.6	+ 9.9
49	ρ	Argus	9	3 26.02	+0.03	−1.37	8 3 24.68	− 2.39	297 2 41.75	56.68	120.67	−24 1 32.9	34.0	+16.7
50	173	B. Camelop......	9	7 22.72	+0.08	1.37	8 7 21.43	− 6.92	37 4 42.00	58.38	46.89	+76 3 14.5	14.9	+ 7.4
51	κ	Cephei S. P	9	12 8.39	−0.09	−1.38	20 12 6.92	+ 5.39	63 35 4.00	21.40	124.39	+77 25 5.2	4.0	− 5.0

1902 FEBRUARY 6. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
52	ζ	Tauri	9	31 50.31	+0.04	**−0.98**	5 31 49.36	− 2.12	342 7 25.52	42.42	19.48	+21 4 52.6	53.1	+ 6.3
53	130	Tauri	9	41 46.40	0.03	**0.96**	5 41 45.45	2.11	338 44 1.68	17.90	23.53	17 41 24.8	24.6	7.8
54		Lal. 11293	9	53 49.76	0.04	0.98	5 53 48.82	2.22	342 38 14.05	29.50	18.90	21 35 41.7	40.8	7.4
55	1	Geminorum	9	58 13.01	0.04	**1.00**	5 58 12.07	2.25	344 18 32.08	47.55	16.98	23 16 1.7	0.8	7.1
56		Lal. 11538	9	0 52.67	0.04	0.97	6 0 51.74	2.25	342 56 12.05	28.32	18.57	21 53 40.2	40.0	7.7
57	3	Geminorum	9	3 50.22	+0.04	−0.97	6 3 49.29	− 2.28	344 10 8.72	25.72	17.14	+23 7 38.2	38.8	+ 7.5

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
4 4 39	75.33	−7.2	− 8.1
5 20	75.33	−7.6	− 8.6
6 13	75.35	8.4	− 9.7
7 6	75.35	−8.9	−10.0
8 10	75.35	−9.2	− 9.6
6 5 30	75.53	−2.2	− 3.0

Bisections are made at II and V, except as noted below.

2, 3, 4, 7, 10, 12, 13, 18, 19, 22, 25, 26, 30, 33, 36, 42, 45, 48, 50, 56.	Bisections at III, V.
6, 23, 35, 51.	Bisections at V, III.
31.	Bisections at c_1, c_5.
37.	Bisections at c_4, b_3.

Notes.

1–36.	Seeing 3.
1.	First bisection doubtful.
12, 33.	Observed head south.
17, 41.	Observed head north.
37–48.	Seeing 2–3.
49–51.	Seeing 2.
52–57.	Seeing 3–4.
53.	Circle A read on 42′ division.
56.	Observed mag. 9.2.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–24, from nadir......	*	14.68
25–51, from nadir 6h 15m	*	14.16
8 25		15.01
52–57, from stars	+2 31.8	15.2

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
52	31.4	14.3
53	32.4	16.0
55	30.6	14.9

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	6 Geminorum	9	6 25.91	+0.04	−0.97	6 6 24.98	— 2.28	343 58 14.75	30.62	17.38	+22 55 43.9	43.4	+ 7.7
2	η Geminorum	9	9 0.96	0.04	**0.96**	6 9 0.03	2.28	343 34 31.08	47.58	17.83	22 31 59.8	60.0	7.9
3	B. D.+20° 1348	9	11 41.43	0.04	0.97	6 11 40.50	2.27	341 52 56.20	13.60	19.80	20 50 23.1	24.0	8.5
4	Mayer 264	9	15 26.13	0.04	0.97	6 15 25.20	2.27	342 12 57.22	14.58	19.41	21 10 24.4	25.4	8.8
5	μ Geminorum	9	17 5.19	0.04	**0.99**	6 17 4.26	2.32	343 36 13.98	30.42	17.80	22 33 42.8	42.8	8.2
6	14 Geminorum	9	19 53.14	+0.04	−0.97	6 19 52.21	— 2.31	342 44 22.15	37.78	18.80	+21 41 49.9	49.2	+ 8.7
7	W. B.$_2$ VI. 535	9	22 3.76	+0.04	−0.97	6 22 2.83	— 2.35	344 46 4.10	21.22	16.47	+23 43 34.2	35.0	+ 8.3
8	Lal. 12462	9	26 8.53	0.04	0.96	6 26 7.61	2.33	343 17 41.65	57.05	18.16	22 15 10.1	9.1	8.9
9	W. B.$_2$ VI. 788	9	29 49.21	0.04	0.96	6 29 48.29	2.32	342 0 28.28	43.82	19.65	20 57 55.2	54.4	9.4
10	W. B.$_2$ VI. 935	9	34 10.69	0.04	0.96	6 34 9.77	2.38	344 48 4.48	21.30	16.43	23 45 34.6	35.1	9.0
11	Lal. 12914	9	38 43.50	0.04	0.96	6 38 42.58	2.34	341 49 53.88	10.38	19.86	20 47 20.6	20.7	9.9
12	B. D.+21° 1372	9	40 27.44	+0.04	−0.96	6 40 26.52	— 2.36	342 40 27.92	44.58	18.87	+21 37 55.6	55.9	+ 9.8
13	ζ Geminorum	9	58 21.16	+0.04	**−0.98**	6 58 20.25	— 2.39	341 45 14.02	30.90	19.95	+20 42 40.6	41.2	+10.8
14	51 Geminorum	9	7 47.96	0.03	**0.95**	7 7 47.05	2.35	337 21 57.68	13.62	25.25	16 19 19.0	18.6	12.0
15	δ Geminorum	9	14 19.58	+0.04	**−0.90**	7 14 18.68	— 2.44	343 12 6.82	23.58	18.27	+22 9 35.1	35.5	+11.4

1902 FEBRUARY 7. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
16	ζ Tauri	9	31 50.10	+0.07	**−0.81**	5 31 49.38	— 2.11	342 7 24.28	42.12	19.30	+21 4 52.4	52.9	+ 6.3
17	130 Tauri	9	41 46.16	0.06	**0.76**	5 41 45.43	2.10	338 44 0.62	17.60	23.31	17 41 24.7	24.4	7.8
18	Lal. 11293	9	53 49.49	0.08	0.79	5 53 48.78	2.21	342 38 13.00	30.32	18.73	21 35 41.6	41.7	7.4
19	1 Geminorum	9	58 12.78	0.08	**0.82**	5 58 12.07	2.24	344 18 30.35	47.50	16.83	23 16 0.9	0.8	7.0
20	Lal. 11538	9	0 52.34	0.08	0.79	6 0 51.63	2.24	342 56 10.32	28.50	18.40	21 53 39.3	40.2	7.7
21	3 Geminorum	9	3 49.89	+0.08	−0.79	6 3 49.18	— 2.27	344 10 8.08	26.10	16.99	+23 7 38.5	39.2	+ 7.5
22	6 Geminorum	9	6 25.58	+0.08	−0.79	6 6 24.87	— 2.27	343 58 13.78	30.58	17.22	+22 55 43.9	43.5	+ 7.7
23	η Geminorum	9	9 0.74	0.08	**0.79**	6 9 0.03	2.27	343 34 30.85	47.38	17.67	22 31 60.6	59.8	7.9
24	B. D.+20° 1348	9	11 41.11	0.07	0.79	6 11 40.39	2.26	341 52 55.95	14.28	19.62	20 50 23.7	24.8	8.5
25	Mayer 264	9	15 25.86	0.08	0.79	6 15 25.15	2.26	342 12 56.42	15.28	19.24	21 10 24.6	26.2	8.8
26	μ Geminorum	9	17 4.98	0.08	**0.83**	6 17 4.27	2.31	343 36 13.10	30.80	17.65	22 33 42.8	43.3	8.2
27	14 Geminorum	9	19 52.84	+0.08	−0.79	6 19 52.13	— 2.30	342 44 21.42	38.60	18.64	+21 41 50.2	50.1	+ 8.7
28	W. B.$_2$ VI. 535	9	22 3.48	+0.08	−0.79	6 22 2.77	— 2.34	344 46 2.98	20.75	16.34	+23 43 34.0	34.5	+ 8.3
29	Lal. 12462	9	26 8.28	0.08	0.79	6 26 7.57	2.32	343 17 40.70	58.02	18.01	22 15 10.1	10.1	8.9
30	W. B.$_2$ VI. 788	9	29 48.96	0.07	0.79	6 29 48.24	2.31	342 0 26.90	44.30	19.50	20 57 54.8	54.9	9.4
31	W. B.$_2$ VI. 935	9	34 10.47	0.08	0.79	6 34 9.76	2.37	344 48 3.55	21.30	16.31	23 45 34.6	35.1	9.0
32	Lal. 12914	9	38 43.23	0.07	0.79	6 38 42.51	2.33	341 49 52.80	10.15	19.71	20 47 20.5	20.6	9.9
33	B. D.+21° 1372	9	40 27.20	+0.08	−0.79	6 40 26.49	— 2.35	342 40 26.45	44.35	18.74	+21 37 55.1	55.7	+ 9.8
34	ζ Geminorum	9	58 20.97	+0.07	**−0.83**	6 58 20.25	— 2.38	341 45 13.35	31.50	19.82	+20 42 40.9	41.8	+10.8
35	51 Geminorum	9	7 47.73	0.06	**0.75**	7 7 47.00	2.35	337 21 56.85	13.52	25.08	16 19 19.2	18.6	12.1
36	δ Geminorum	9	14 19.39	+0.08	**−0.75**	7 14 18.68	— 2.44	343 12 5.60	22.78	18.15	+22 9 34.8	34.7	+11.3

1902 FEBRUARY 8. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
37	ζ Tauri	9	31 49.74	+0.04	**−0.44**	5 31 49.34	— 2.09	342 7 25.82	42.50	19.69	+21 4 52.8	52.8	+ 6.3
38	130 Tauri	9	41 45.82	0.04	**0.42**	5 41 45.42	2.08	338 44 1.38	18.45	23.77	17 41 24.3	24.7	7.9
39	Lal. 11293	9	53 49.19	0.04	0.44	5 53 48.79	2.20	342 38 15.02	31.22	19.08	21 35 42.6	42.2	7.4
40	1 Geminorum	9	58 12.45	0.04	**0.46**	5 58 12.05	2.23	344 18 31.55	47.60	17.15	23 16 1.1	0.5	7.0
41	Lal. 11538	9	0 52.08	0.04	0.44	6 0 51.68	2.23	342 56 12.52	29.00	18.73	21 53 40.5	40.3	7.7
42	3° Geminorum	9	3 49.62	+0.04	−0.44	6 3 49.22	— 2.26	344 10 10.10	26.22	17.30	+23 7 39.5	38.9	+ 7.5
43	6 Geminorum	9	6 25.31	+0.04	−0.44	6 6 24.91	— 2.26	343 58 14.58	31.12	17.53	+22 55 43.7	43.6	+ 7.7
44	η Geminorum	9	9 0.42	0.04	**0.44**	6 9 0.02	2.26	343 34 31.40	47.35	17.99	22 31 60.1	59.4	7.9
45	B. D.+20° 1348	9	11 40.84	0.04	0.44	6 11 40.44	2.25	341 52 57.65	14.45	19.97	20 50 24.4	24.5	8.5
46	Mayer 264	9	15 25.53	0.04	0.44	6 15 25.13	2.25	342 12 57.88	14.68	19.57	21 10 25.0	25.1	8.8
47	μ Geminorum	9	17 4.66	0.04	**0.48**	6 17 4.26	2.30	343 36 14.02	31.02	17.95	22 33 42.7	43.1	8.2
48	14 Geminorum	9	19 52.56	+0.04	−0.44	6 19 52.16	— 2.29	342 44 21.98	38.75	18.96	+21 41 49.7	49.8	+ 8.7

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	cm.	°	°
6	6	13	75.53	−2.5	−3.5
	6	36	.....	...	−3.5
	7	11	75.51	−2.7	−3.7
7	5	35	75.12	−1.2	−2.1
	6	13	75.13	−1.7	−2.6
	6	38	.....	...	3.0
	7	10	75.10	−2.5	−3.3
8	5	30	75.11	−6.7	−7.2
	6	8	75.07	−6.8	−7.2

Bisections are made at II and V, except as noted below.

3. Bisections at III, V.

Notes.

1–15.	Seeing 3–4.
3.	Observed mag. 9.5.
16–34.	Seeing 3.
17, 38.	Circle A read on 42′ division.
20.	Observed mag. 8.0.
35, 36.	Seeing 2; stars blurred and unsteady.
37–48.	Seeing 2–3.
41.	Observed mag. 8.2.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–15, from stars	+2	31.8	15.2
16–36, from stars	2	32.6	15.1
37–48, from stars	+2	31.9	15.0

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
2	31.6	14.8
5	31.7	15.1
13	31.8	14.6
14	32.5	16.3
15	32.2	15.2
16	32.4	14.4
17	33.3	16.1
19	32.3	14.9
23	31.6	14.9
26	32.5	14.5
34	32.3	13.9
35	33.0	16.1
36	33.4	16.0
37	31.3	14.4
38	32.9	15.6
40	31.4	15.1
44	31.4	15.2
47	31.9	14.6

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	W. B.₂ VI. 535	9	22 3.21	+0.04	−0.44	6 22 2.81	− 2.33	344 46 3.45	22.25	16.61	+23 43 33.5	35.6	+ 8.3
2	Lal. 12462	9	26 7.97	0.04	0.44	6 26 7.57	2.31	343 17 41.70	57.98	18.31	22 15 10.1	9.7	8.9
3	W. B.₂ VI. 788	9	29 48.69	0.04	0.44	6 29 48.29	2.30	342 0 27.70	44.88	19.82	20 57 54.6	55.1	9.4
4	Lal. 12712	9	33 14.33	0.04	0.44	6 33 13.93	2.33	343 9 24.95	41.08	18.48	22 6 53.1	52.6	9.3
5	Lal. 12914	9	38 42.95	0.04	0.44	6 38 42.55	2.32	341 49 53.85	9.90	20.03	20 47 20.5	19.9	9.9
6	B. D.+21° 1372	9	40 26.91	+0.04	−0.44	6 40 26.51	− 2.34	342 40 28.65	45.40	19.04	+21 37 56.3	56.4	+ 9.8
7	ζ Geminorum	9	58 20.61	+0.04	**−0.44**	6 58 20.21	− 2.38	341 45 14.48	32.10	20.12	+20 42 41.0	42.0	+10.8
8	51 Geminorum	9	7 47.41	0.04	**0.42**	7 7 47.01	2.34	337 21 57.50	13.85	25.46	16 19 18.7	18.4	12.1
9	δ Geminorum	9	14 19.10	+0.04	**0.42**	7 14 18.70	− 2.44	343 12 6.98	23.70	18.42	22 9 35.2	35.3	+11.3
10	λ Ursæ Minoris S. P.	6	18 53.43	−2.73	−0.44	19 18 50.26	+80.69	52 1 25.30	41.62	78.34	+88 59 30.2	30.2	− 0.1

1902 FEBRUARY 9. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
11	ζ Tauri	9	31 49.38	0.00	**−0.05**	5 31 49.32	− 2.08	342 7 27.70	43.12	19.65	+21 4 52.8	52.2	+ 6.3
12	130 Tauri	9	41 45.42	+0.01	**0.00**	5 41 45.38	2.07	338 44 4.45	19.95	23.73	17 41 25.5	24.9	7.9
13	140 Tauri	9	54 34.01	0.00	−0.03	5 54 33.98	2.20	343 56 4.40	20.80	17.56	22 53 31.6	31.9	7.1
14	1 Geminorum	9	58 12.07	0.00	**0.05**	5 58 12.04	2.22	344 18 32.32	48.92	17.13	23 16 0.0	0.5	7.0
15	Lal. 11538	9	0 51.66	0.00	0.02	6 0 51.64	2.21	342 56 14.15	30.05	18.72	21 53 40.2	40.0	7.7
16	Lal. 11717	9	5 34.27	0.00	−0.02	6 5 34.25	− 2.22	341 58 0.68	16.78	19.85	+20 55 25.6	25.7	+ 8.2
17	η Geminorum	9	8 59.99	0.00	**+0.02**	6 8 59.98	− 2.25	343 34 32.65	48.30	17.97	+22 31 59.4	59.0	+ 7.9
18	10 Geminorum	9	12 58.38	0.00	−0.01	6 12 58.37	2.29	344 40 51.88	8.50	16.70	23 38 19.9	20.5	7.8
19	Mayer 266	9	15 52.81	0.00	0.01	6 15 52.80	2.30	344 50 45.90	2.75	16.51	23 48 14.2	14.9	7.9
20	μ Geminorum	9	17 4.28	0.00	**−0.07**	6 17 4.27	2.29	343 36 16.28	32.55	17.94	22 33 43.2	43.3	8.2
21	B. D.+22° 1326	9	20 23.48	0.00	0.00	6 20 23.48	2.29	343 48 55.10	10.05	17.70	22 46 22.2	21.1	8.5
22	16 Geminorum	9	22 9.28	0.00	0.00	6 22 9.28	− 2.27	341 35 46.18	3.30	20.29	+20 33 10.7	11.7	+ 9.1
23	B. D.+24° 1303	9	27 21.61	0.00	0.00	6 27 21.61	− 2.34	345 9 11.35	27.65	16.16	+24 6 40.0	40.2	+ 8.5
24	B. D.+23° 1425	9	30 48.18	0.00	+0.01	6 30 48.19	2.33	344 13 4.05	20.88	17.23	23 10 31.6	32.4	8.9
25	Lal. 12712	9	33 13.92	0.00	0.01	6 33 13.93	2.32	343 9 26.55	42.58	18.46	22 6 52.9	52.8	9.3
26	Lal. 12925	9	39 3.31	0.00	0.02	6 39 3.33	2.35	343 58 35.68	51.68	17.51	22 56 2.9	2.9	9.3
27	ζ Geminorum	9	58 20.18	0.00	**0.02**	6 58 20.22	2.37	341 45 16.98	32.78	20.11	20 42 41.6	41.4	10.8
28	51 Geminorum	9	7 46.93	+0.01	**+0.08**	7 7 46.99	− 2.33	337 22 0.20	16.30	25.45	+16 19 18.6	19.6	+12.1
29	δ Geminorum	9	14 18.66	0.00	**+0.05**	7 14 18.72	− 2.43	343 12 9.00	25.22	18.42	+22 9 35.4	35.5	+11.3
30	λ Ursæ Minoris S. P.	6	18 51.10	+1.82	+0.07	19 18 52.99	+80.11	52 1 26.85	42.78	78.35	+88 59 30.0	29.9	+ 0.2

1902 FEBRUARY 13. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
31	ζ Tauri	9	31 47.39	+0.01	**+1.88**	5 31 49.27	− 2.03	342 7 25.62	42.75	19.74	+21 4 52.6	53.1	+ 6.3
32	130 Tauri	9	41 43.45	0.01	**1.92**	5 41 45.34	2.02	338 44 2.52	18.30	23.84	17 41 25.4	24.6	8.0
33	140 Tauri	9	54 32.05	0.01	1.88	5 54 33.94	2.15	343 56 3.55	20.50	17.64	22 53 32.6	33.0	7.0
34	1 Geminorum	9	58 10.08	0.01	**1.88**	5 58 11.98	2.17	344 18 31.05	47.82	17.21	23 16 0.5	0.7	7.0
35	Lal. 11538	9	0 49.64	0.01	1.89	6 0 51.54	2.16	342 56 11.82	28.50	18.81	21 53 39.7	39.8	7.6
36	Lal. 11717	9	5 32.32	+0.01	+1.89	6 5 34.22	− 2.17	341 57 58.28	14.90	19.95	+20 55 25.0	25.1	+ 8.2
37	η Geminorum	9	8 58.09	+0.01	**+1.86**	6 8 59.99	− 2.20	343 34 31.78	47.52	18.07	+22 31 60.4	59.6	+ 7.8
38	10 Geminorum	9	12 56.52	0.01	1.89	6 12 58.42	2.24	344 40 50.50	7.55	16.79	23 38 20.4	20.9	7.8
39	Mayer 266	9	15 50.81	0.01	1.90	6 15 52.72	2.25	344 50 43.80	1.80	16.60	23 48 13.9	15.3	7.9
40	μ Geminorum	7	17 2.27	0.01	**1.88**	6 17 4.18	2.24	343 36 14.18	31.18	18.04	22 33 42.9	43.3	8.2
41	B. D.+22° 1326	9	20 21.52	0.01	1.90	6 20 23.43	2.25	343 48 53.30	9.18	17.80	22 46 22.2	21.5	8.4
42	16 Geminorum	9	22 7.30	+0.01	+1.90	6 22 9.21	− 2.23	341 35 45.12	1.18	20.40	+20 33 11.4	10.9	+ 9.1
43	B. D.+24° 1303	9	27 19.68	+0.01	+1.90	6 27 21.59	− 2.30	345 9 10.08	26.95	16.25	+24 6 40.5	40.8	+ 8.4
44	B. D.+23° 1425	9	30 46.30	+0 01	+1.91	6 30 48.22	− 2.29	344 13 2.40	19.48	17.33	+23 10 31.7	32.3	+ 8.8

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
8 6 45	75.06	−6.9	−7.2
7 19	75.05	−6.9	−7.2
9 5 30	75.26	−5.4	−6.2
5 56	.....	...	6.4
6 29	75.25	−5.8	−6.4
7 19	75.29	−6.0	−6.5
13 5 32	75.78	−5.0	−5.5
6 3	.....	...	−5.8
6 32	75.82	−5.5	−5.9

Bisections are made at II and V, except as noted below.

10, 30. Bisections at c_4, c_2.
20, 40. Bisections at III, V.

Notes.

1–10. Seeing 3.
11–30. Seeing 2–3.
15, 35. Observed mag. 8.5.
16. Circle A read on 56′ division.
21. First bisection doubtful.
28. Circle A read on 20′ division.
31–44. Seeing 3–4.
40. First bisection hurried.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1– 9, from stars	+2	31.9	15.0
10, from nadir	2	31.02	14.72
11–29, from stars	2	30.0	13.7
30, from nadir	2	29.64	13.86
31–44, from stars	+2	31.9	15.1

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
7	31.5	13.6
8	32.8	16.2
9	32.3	15.3
11	29.4	13.7
12	29.8	14.1
14	30.6	13.8
17	30.2	14.3
20	29.5	13.1
27	29.0	12.9
28	31.0	13.7
29	30.2	13.8
31	31.5	14.2
32	31.7	15.7
34	32.0	15.0
37	31.2	15.2
40	31.7	14.5

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ · n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
									A.	B.		A.	B.	
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		B. D. +20° 1521..	9	34 10.04	+0.01	+1.91	6 34 11.96	−2.26	341 36 54.98	11.20	20.39	+20 34 21.3	20.9	+9.6
2		Lal. 12925	9	39 1.38	0.01	1.91	6 39 3.30	2.31	343 58 34.85	51.12	17.62	22 56 3.9	3.6	9.3
3	ζ	Geminorum	9	58 18.21	0.01	**1.95**	6 58 20.14	2.34	341 45 14.28	30.80	20.25	20 42 40.7	40.7	10.7
4	51	Geminorum	9	7 45.08	0.01	**1.91**	7 7 47.02	2.31	337 21 57.78	15.12	25.64	16 19 18.9	19.6	12.1
5	δ	Geminorum	9	14 16.75	+0.01	**1.92**	7 14 18.69	−2.40	343 12 7.08	23.08	18.56	22 9 35.2	34.6	11.2
6	λ	Ursæ Minoris S. P.	6	18 53.33	−0.17	+1.94	19 18 55.10	+77.34	52 1 25.52	41.68	78.94	+88 59 29.3	29.2	+1.4

1902 FEBRUARY 14. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ · n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
									A.	B.		A.	B.	
7	ζ	Tauri...........	9	31 46.92	+0.01	**+2.33**	5 31 49.25	−2.01	342 7 27.35	42.65	19.65	+21 4 53.1	53.2	+6.3
8	130	Tauri...........	9	41 43.02	0.01	**2.33**	5 41 45.36	2.00	338 44 4.25	18.55	23.72	17 41 25.9	25.0	8.0
9	140	Tauri...........	9	54 31.55	0.01	2.34	5 54 33.90	2.14	343 56 3.85	19.88	17.54	22 53 31.7	32.6	7.0
10	1	Geminorum	9	58 9.58	0.01	**2.37**	5 58 11.94	2.16	344 18 32.00	47.45	17.12	23 16 0.2	0.5	6.9
11		Lal. 11717	9	5 31.81	0.01	2.35	6 5 34.17	2.16	341 57 59.52	14.10	19.84	20 55 25.1	24.5	8.2
12	η	Geminorum	9	8 57.61	+0.01	**+2.33**	6 8 59.98	−2.19	343 34 32.15	46.85	17.96	+22 31 59.6	59.1	+7.8
13	10	Geminorum	9	12 56.04	0.00	+2.36	6 12 58.40	−2.23	344 40 51.42	6.48	16.69	+23 38 20.1	20.0	+7.7
14		Mayer 266	9	15 50.34	0.00	2.36	6 15 52.70	2.24	344 50 44.65	0.50	16.50	23 48 13.5	14.2	7.8
15	μ	Geminorum	7	17 1.76	+0.01	**2.38**	6 17 4.13	2.23	343 36 15.35	30.62	17.92	22 33 42.8	42.9	8.2
16		B. D. +22° 1326...	9	20 21.06	0.01	2.37	6 20 23.44	2.23	343 48 53.95	8.88	17.68	22 46 21.6	21.4	8.4
17	16	Geminorum	9	22 6.82	+0.01	2.37	6 22 9.20	2.21	341 35 46.42	1.50	20.27	20 33 11.5	11.4	9.1
18		B. D. +24° 1303...	9	27 19.23	0.00	+2.37	6 27 21.60	−2.28	345 9 11.32	25.95	16.14	+24 6 40.5	40.0	+8.4
19		B. D. +23° 1425...	9	30 45.84	+0.01	+2.37	6 30 48.22	−2.28	344 13 2.65	19.88	17.22	+23 10 30.8	32.9	+8.8
20		B. D. +20° 1521...	9	34 9.59	0.01	2.38	6 34 11.98	2.25	341 36 56.20	10.88	20.25	20 34 21.3	20.8	9.6
21		Lal. 12925	9	39 0.90	0.01	2.38	6 39 3.29	2.30	343 58 35.65	50.22	17.49	22 56 3.5	2.9	9.2
22	ζ	Geminorum	9	58 17.76	0.01	**2.39**	6 58 20.17	2.33	341 45 16.05	31.98	20.09	20 42 41.3	42.1	10.7
23	51	Geminorum	9	7 44.57	0.01	**2.41**	7 7 46.98	2.30	337 21 58.52	14.08	25.42	16 19 18.5	18.9	12.2
24	δ	Geminorum	9	14 16.26	0.01	**2.41**	7 14 18.68	−2.40	343 12 8.02	23.02	18.40	22 9 35.0	34.8	11.2
25	λ	Ursæ Minoris S. P.	6	18 52.37	+1.08	+2.41	19 18 55.86	+76.67	52 1 28.28	42.90	78.29	+88 59 28.2	28.6	+1.6

1902 FEBRUARY 23. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ · n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
									A.	B.		A.	B.	
26	ζ	Tauri...........	9	31 48.37	−0.10	**+0.85**	5 31 49.14	−1.87	17 47 39.75	53.50	18.99	+21 4 52.0	52.4	+6.3
27	130	Tauri...........	9	41 44.48	0.09	**0.84**	5 41 45.25	1.87	21 11 2.35	16.10	22.94	17 41 25.5	25.9	8.0
28	140	Tauri...........	9	54 33.04	0.10	0.85	5 54 33.79	2.00	15 59 2.72	16.60	16.97	22 53 31.1	31.3	6.8
29	1	Geminorum	9	58 11.06	0.10	**0.86**	5 58 11.80	2.02	15 36 34.18	48.35	16.57	23 16 0.0	0.0	6.9
30		Lal. 11717	9	5 33.34	0.10	0.83	6 5 34.07	2.03	17 57 7.90	22.32	19.21	20 55 23.7	23.4	8.0
31	η	Geminorum	9	8 59.07	−0.10	**+0.85**	6 8 59.80	−2.06	16 20 33.18	47.85	17.40	+22 31 60.2	59.7	+7.6
32	10	Geminorum	9	12 57.57	−0.10	+0.82	6 12 58.29	−2.10	15 14 13.75	27.45	16.17	+23 38 20.8	21.3	+7.6
33		Mayer 266	9	15 51.96	0.10	0.82	6 15 52.68	2.11	15 4 20.48	33.05	16.00	23 48 14.3	15.9	7.7
34	μ	Geminorum	9	17 3.36	0.10	**0.76**	6 17 4.07	2.10	16 18 51.05	5.30	17.38	22 33 42.5	42.2	8.1
35		B. D. +22° 1326...	9	20 22.56	0.10	0.81	6 20 23.27	2.12	16 6 12.85	27.05	17.15	22 46 20.8	20.7	8.2
36	16	Geminorum	9	22 8.40	0.10	0.81	6 22 9.11	2.09	18 19 20.55	33.98	19.66	20 33 10.6	11.3	9.0
37		B. D. +24° 1303...	9	27 20.77	−0.11	+0.80	6 27 21.46	−2.17	14 45 54.00	8.75	15.67	+24 6 41.1	40.5	+8.1
38		B. D. +23° 1425...	9	30 47.39	−0.10	+0.80	6 30 48.09	−2.17	15 42 0.80	14.75	16.72	+23 10 33.2	33.4	+8.5
39		Lal. 12712	9	33 13.08	0.10	0.80	6 33 13.78	2.15	16 45 39.98	55.02	17.91	22 6 52.9	52.0	9.0
40		Lal. 12925	9	39 2.47	0.10	0.79	6 39 3.16	2.19	15 56 30.85	45.52	16.99	22 56 2.9	2.4	9.0
41	ζ	Geminorum	9	58 19.41	0.10	**0.75**	6 58 20.07	2.23	18 9 50.68	4.20	19.53	20 42 40.6	41.2	10.5
42	51	Geminorum	9	7 46.21	0.09	**0.77**	7 7 46.87	2.20	22 33 5.68	19.85	24.72	16 19 20.4	20.4	12.2
43	δ	Geminorum	9	14 17.89	−0.10	**0.80**	7 14 18.54	−2.31	16 42 56.45	11.60	17.90	22 9 36.4	35.4	10.9
44	λ	Ursæ Minoris S. P.	6	18 54.00	+8.91	+0.74	19 19 3.65	+70.62	307 53 33.50	46.90	76.16	+88 59 25.5	25.7	+4.0

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
13 7 13	75.87	−5.7	−6.4
14 5 29	76.01	−3.3	−3.6
6 0	76.02	−3.5	−3.6
6 52	75.97	−3.7	−3.6
7 20	75.98	−3.9	−3.9
23 5 29	75.76	+5.5	+4.4
6 0	75.81	+5.0	+4.1
6 35	75.80	+4.1	+3.2
7 19	75.80	+3.5	+2.6

Bisections are made at II and V, except as noted below.

6, 25, 44. Bisections at c_4, c_2.
34. Bisections at III, V.

Notes.

1–6, 26–44. Seeing 3–4.
37. Faint.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1– 5, from stars	+2	31.9	15.1
6, from nadir......	2	31.10	15.06
7–24, from stars	2	30.6	15.2
25, from nadir......	2	30.13	15.13
26–43, from stars	2	22.0	8.1
44, from nadir......	+2	21.28	8.08

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
3	31.9	15.1
4	32.6	15.1
5	32.4	16.2
7	29.7	14.2
8	29.9	15.4
10	31.1	15.4
12	30.7	15.8
15	30.5	15.0
22	30.0	13.8
23	31.6	15.8
24	31.3	16.1
26	21.8	8.3
27	22.3	8.8
29	21.3	7.4
31	22.3	7.9
34	21.7	7.5
41	21.7	8.4
42	22.9	9.0
43	22.4	7.5

1902 FEBRUARY 26. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T - m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	ζ Tauri	9	31 48.96	− 0.13	**+0.24**	5 31 49.07	− 1.82	17 47 39.60	52.48	18.53	+21 4 51.8	52.4	+ 6.4
2	130 Tauri	9	41 45.04	0.12	**0.26**	5 41 45.16	1.82	21 11 1.68	14.78	22.38	17 41 25.9	26.3	8.0
3	140 Tauri	9	54 33.66	0.14	0.24	5 54 33.76	1.95	15 59 1.90	15.08	16.56	22 53 31.5	31.8	6.8
4	1 Geminorum	9	58 11.65	0.14	**0.26**	5 58 11.75	1.97	15 36 33.95	47.55	16.16	23 15 59.9	59.7	6.9
5	Lal. 11717	9	5 33.89	0.13	0.25	6 5 34.01	1.98	17 57 8.35	20.48	18.74	20 55 22.9	24.2	8.0
6	η Geminorum	9	8 59.66	− 0.14	**+0.25**	6 8 59.77	− 2.01	16 20 33.82	46.60	16.97	+22 31 59.2	59.8	+ 7.6
7	10 Geminorum	8	12 58.11	− 0.14	+0.25	6 12 58.22	− 2.05	15 14 13.58	26.65	15.77	+23 38 20.6	21.0	+ 7.5
8	Mayer 266	9	15 52.47	0.14	0.25	6 15 52.58	2.06	15 4 20.00	32.90	15.59	23 48 14.4	14.9	7.6
9	μ Geminorum	9	17 3.90	0.14	**0.22**	6 17 4.01	2.06	16 18 50.68	4.20	16.94	22 33 42.5	42.3	8.0
10	B. D. +22° 1326	9	20 23.18	0.14	0.25	6 20 23.29	2.07	16 6 12.58	26.38	16.71	22 46 20.7	20.3	8.1
11	16 Geminorum	9	22 8.99	0.13	0.25	6 22 9.11	2.04	18 19 21.10	33.40	19.16	20 33 9.7	10.9	8.9
12	B. D+23° 1425	9	30 47.95	− 0.14	+0.26	6 30 48.07	− 2.12	15 42 0.78	14.18	16.27	+23 10 32.9	33.0	+ 8.4
13	B. D. +20° 1521	9	34 11.75	− 0.13	+0.26	6 34 11.88	− 2.10	18 18 10.72	23.82	19.14	+20 34 20.1	20.5	+ 9.4
14	Lal. 12925	9	39 3.02	0.14	0.26	6 39 3.14	2.15	15 56 30.75	44.72	16.54	22 56 2.7	2.2	8.9
15	ζ Geminorum	9	58 19.90	0.13	**0.25**	6 58 20.03	2.19	18 9 50.80	2.85	19.03	20 42 40.2	41.5	10.5
16	51 Geminorum	9	7 46.73	0.12	**0.25**	7 7 46.88	2.17	22 33 4.82	18.68	24.10	16 19 21.1	20.6	12.1
17	δ Geminorum	9	14 18.39	− 0.14	**0.30**	7 14 18.52	− 2.27	16 42 55.68	10.75	17.45	22 9 36.8	35.2	10.8
18	λ Ursæ Minoris S. P.	6	18 53.72	+12.94	+0.27	19 19 6.93	+67.64	307 53 30.12	43.45	74.27	+88 59 24.7	25.6	+ 4.7

1902 FEBRUARY 28. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

19	ζ Tauri	9	31 49.42	− 0.08	**−0.31**	5 31 49.06	− 1.78	17 47 43.20	57.85	17.90	+21 4 52.2	52.2	+ 6.4
20	130 Tauri	9	41 45.49	0.08	**0.26**	5 41 45.12	1.79	21 11 5.52	20.25	21.63	17 41 26.1	26.0	8.0
21	140 Tauri	9	54 34.12	0.08	0.31	5 54 33.73	1.92	15 59 5.15	19.68	16.02	22 53 32.1	32.2	6.8
22	1 Geminorum	9	58 12.16	0.08	**0.35**	5 58 11.76	1.93	15 36 37.58	53.00	15.63	23 15 60.1	59.3	6.9
23	Lal. 11717	9	5 34.39	0.08	0.33	6 5 33.98	1.95	17 57 11.42	26.12	18.13	20 55 23.7	23.7	8.0
24	η Geminorum	9	9 0.13	− 0.08	**−0.31**	6 8 59.71	− 1.98	16 20 36.78	51.55	16.42	+22 31 60.1	59.9	+ 7.6
25	10 Geminorum	9	12 58.62	− 0.08	−0.34	6 12 58.20	− 2.02	15 14 17.00	30.52	15.27	+23 38 21.0	22.1	+ 7.5
26	Mayer 266	9	15 52.94	0.08	0.35	6 15 52.51	2.03	15 4 23.80	37.75	15.10	23 48 14.4	15.1	7.6
27	μ Geminorum	9	17 4.38	0.08	**0.35**	6 17 3.95	2.03	16 18 54.72	8.58	16.41	22 33 42.3	42.9	8.0
28	B. D. +22° 1326	9	20 23.64	0.08	0.36	6 20 23.20	2.04	16 6 16.12	31.05	16.19	22 46 21.0	20.7	8.1
29	16 Geminorum	9	22 9.42	0.08	0.36	6 22 8.98	2.01	18 19 24.48	38.42	18.57	20 33 10.2	10.9	8.9
30	B. D. +23° 1425	9	30 48.41	− 0.08	−0.37	6 30 47.96	− 2.09	15 42 4.02	19.78	15.78	+23 10 33.5	32.3	+ 8.4
31	Lal. 12712	9	33 14.08	− 0.08	−0.38	6 33 13.62	2.08	16 45 43.55	59.02	16.91	+22 6 52.8	52.0	+ 8.9
32	ζ Geminorum	9	58 20.52	− 0.08	**−0.45**	6 58 20.02	− 2.16	18 9 53.88	7.88	18.46	+20 42 40.9	41.6	+10.4

1902 MARCH 2. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

33	ζ Tauri	9	31 49.72	− 0.04	**−0.68**	5 31 48.98	− 1.75	17 47 43.18	56.45	18.47	+21 4 51.8	52.3	+ 6.4
34	130 Tauri	9	41 45.86	0.05	**0.70**	5 41 45.10	1.75	21 11 6.00	19.50	22.32	17 41 25.0	25.4	8.0
35	Lal. 11293	7	53 49.24	0.04	0.72	5 53 48.48	1.86	17 16 55.20	9.20	17.94	21 35 40.4	40.0	7.2
36	1 Geminorum	9	58 12.48	0.04	**0.74**	5 58 11.72	1.90	15 36 37.28	51.58	16.13	23 15 59.9	59.5	6.9
37	Lal. 11538	9	0 52.06	0.04	0.72	6 0 51.30	1.90	16 58 57.10	11.25	17.63	21 53 38.5	38.3	7.5
38	3 Geminorum	9	3 49.66	− 0.04	−0.72	6 3 48.90	− 1.93	15 44 58.40	12.65	16.28	+23 7 38.6	38.3	+ 7.2

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
26 5 29	74.89	8.4	7.8
6 1	74.89	8.0	7.3
6 36	74.90	7.5	7.3
7 20	74.96	6.8	6.3
28 5 30	73.82	12.7	13.3
6 0	73.84	12.6	12.6
6 36	73.85	12.4	11.6
7 13	73.84	11.6	10.7
2 5 30	74.35	8.5	6.8

Bisections are made at II and V, except as noted below.

9, 27, 33. Bisections at III, V.
18. Bisections at c_4, c_2.
35. Bisections at IV, VI.

Notes.

1–18. Seeing 3-4.
19–32. Seeing 3; clouds and mist.
32. Faint; very poor.
33–38. Seeing 3.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1–17, from stars	+2	22.8	9.6
18, from nadir	2	21.99	9.53
19–32, from stars	2	19.5	5.1
33–38, from stars	+2	19.5	5.8

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
1	22.5	9.9
2	23.5	10.7
4	22.0	8.6
6	22.1	9.5
9	22.4	9.0
15	22.1	10.2
16	24.3	10.6
17	23.5	8.7
19	19.6	5.2
20	20.4	5.9
22	18.9	3.7
24	19.7	5.1
27	18.9	5.1
32	19.4	5.7
33	19.2	6.0
34	19.3	6.0
36	18.7	4.6

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	6 Geminorum	9	6 25.37	−0.04	−0.73	6 6 24.60	− 1.94	15 56 54.10	8.25	16.50	+22 55 42.7	42.5	+ 7.4
2	η Geminorum	9	9 0.49	0.04	**0.75**	6 8 59.72	1.94	16 20 36.55	50.70	16.94	22 31 59.8	59.6	7.6
3	B. D. +20° 1348	9	11 40.87	0.04	0.73	6 11 40.10	1.94	18 2 10.08	23.35	18.81	20 50 24.4	25.1	8.3
4	Mayer 264	9	15 25.59	0.04	0.73	6 15 24.82	1.95	17 42 10.15	23.20	18.44	21 10 24.7	25.6	8.7
5	μ Geminorum	9	17 4.70	0.04	**0.75**	6 17 3.92	1.99	16 18 53.88	7.75	16.92	22 33 42.5	42.5	8.0
6	14 Geminorum	9	19 52.63	−0.04	−0.74	6 19 51.85	− 1.99	17 10 46.22	59.08	17.87	+21 41 49.2	50.3	+ 8.4
7	W. B.$_2$ VI. 535	9	22 3.27	−0.04	−0.74	6 22 2.49	− 2.03	15 9 4.95	17.22	15.66	+23 43 32.7	34.3	+ 7.8
8	Lal. 12462	9	26 8.06	0.04	0.74	6 26 7.28	2.02	16 37 27.68	42.28	17.27	22 15 8.3	7.7	8.4
9	B. D. +24° 1303	9	27 22.16	0.04	0.74	6 27 21.38	2.06	14 45 57.05	11.55	15.25	24 6 41.1	40.4	7.9
10	W. B.$_2$ VI. 788	9	29 48.79	0.04	0.75	6 29 48.00	2.02	17 54 41.60	54.48	18.69	20 57 53.0	54.0	9.1
11	B. D. +20° 1521	9	34 12.48	0.04	0.75	6 34 11.69	2.04	18 18 14.12	27.75	19.14	20 34 20.0	20.3	9.4
12	Lal. 12914	9	38 43.02	−0.04	−0.75	6 38 42.23	− 2.06	18 5 14.60	28.32	18.90	+20 47 19.8	20.0	+ 9.5
13	B. D. +21° 1372	9	40 26.99	−0.04	−0.76	6 40 26.19	− 2.08	17 14 39.25	53.55	17.96	+21 37 56.1	55.7	+ 9.3
14	ζ Geminorum	9	58 20.77	0.04	**0.76**	6 58 19.96	2.14	18 9 53.95	6.30	19.01	20 42 40.3	41.9	10.4
15	51 Geminorum	9	7 47.63	0.05	**0.77**	7 7 46.80	2.12	22 33 8.78	23.30	24.05	16 19 20.5	19.9	12.1
16	δ Geminorum	9	14 19.31	−0.04	**−0.77**	7 14 18.49	− 2.22	16 42 58.40	13.30	17.40	+22 9 37.5	36.5	+ 10.7

1902 MARCH 3. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
17	ζ Tauri	9	31 49.90	−0.04	**−0.88**	5 31 48.95	− 1.73	17 47 42.28	56.55	19.13	+21 4 52.2	51.8	+ 6.4
18	130 Tauri	9	41 46.05	0.04	**0.92**	5 41 45.10	1.73	21 11 5.35	19.32	23.08	17 41 25.2	25.1	8.1
19	Lal. 11293	9	53 49.41	0.04	0.91	5 53 48.46	1.84	17 16 54.42	8.35	18.54	21 35 40.6	40.6	7.2
20	1 Geminorum	9	58 12.64	0.04	**0.92**	5 58 11.69	1.88	15 36 36.95	50.85	16.66	23 16 0.0	0.0	6.9
21	Lal. 11538	9	0 52.26	0.04	0.91	6 0 51.31	1.88	16 58 57.12	9.70	18.21	21 53 38.2	39.6	7.4
22	3 Geminorum	9	3 49.80	−0.04	−0.91	6 3 48.85	− 1.91	15 44 58.05	11.78	16.82	+23 7 38.7	38.9	+ 7.2
23	6 Geminorum	9	6 25.52	−0.04	−0.91	6 6 24.57	− 1.92	15 56 53.68	7.08	17.05	+22 55 42.8	43.4	+ 7.4
24	η Geminorum	9	9 0.63	0.04	**0.90**	6 8 59.68	1.93	16 20 35.68	49.78	17.50	22 32 0.4	0.2	7.6
25	B. D. +20° 1348	9	11 41.03	0.04	0.91	6 11 40.08	1.92	18 2 9.15	22.88	19.43	20 50 25.0	25.2	8.2
26	Mayer 264	9	15 25.74	0.04	0.91	6 15 24.79	1.93	17 42 9.18	22.78	19.05	21 10 25.4	25.7	8.6
27	μ Geminorum	9	17 4.85	0.04	**0.91**	6 17 3.90	1.98	16 18 54.15	7.35	17.47	22 33 42.0	42.7	8.0
28	14 Geminorum	9	19 52.78	−0.04	−0.91	6 19 51.83	− 1.97	17 10 45.48	58.30	18.46	+21 41 49.6	50.7	+ 8.4
29	W. B.$_2$ VI. 535	9	22 3.44	−0.04	−0.91	6 22 2.49	− 2.01	15 9 3.20	16.25	16.17	+23 43 34.2	35.1	+ 7.8
30	Lal. 12462	9	26 8.24	0.04	0.91	6 26 7.29	2.00	16 37 27.22	40.85	17.83	22 15 8.5	8.8	8.4
31	B. D. +24° 1303	9	27 22.31	0.04	0.91	6 27 21.36	2.04	14 45 57.15	11.30	15.75	24 6 40.8	40.4	7.9
32	W. B.$_2$ VI. 788	9	29 48.92	0.04	0.91	6 29 47.97	2.00	17 54 40.08	54.02	19.30	20 57 54.2	54.2	9.0
33	W. B.$_2$ VI. 935	9	34 10.38	0.04	0.91	6 34 9.43	2.06	15 7 3.05	15.60	16.15	23 45 34.4	35.8	8.3
34	Lal. 12914	9	38 43.22	−0.04	−0.91	6 38 42.27	− 2.04	18 5 13.80	28.12	19.52	+20 47 20.3	19.9	+ 9.5
35	B. D. +21° 1372	9	40 27.12	−0.04	−0.91	6 40 26.17	− 2.06	17 14 38.55	52.20	18.55	+21 37 56.5	56.8	+ 9.3
36	ζ Geminorum	9	58 20.93	0.04	**0.94**	6 58 19.98	2.12	18 9 53.72	6.35	19.62	20 42 40.2	41.5	10.4
37	51 Geminorum	9	7 47.74	0.04	**0.91**	7 7 46.79	2.10	22 33 8.20	22.75	24.83	16 19 20.6	19.9	12.1
38	δ Geminorum	9	14 19.39	0.04	**0.87**	7 14 18.44	− 2.20	16 42 58.28	13.38	17.97	22 9 37.3	36.2	10.6
39	λ Ursæ Minoris S. P.	6	19 13.02	−0.62	−0.91	19 19 11.49	+63.05	307 53 34.02	47.42	76.47	+88 59 23.3	23.6	+ 5.6

1902 MARCH 6. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
40	ζ Tauri	9	31 50.29	−0.03	**−1.34**	5 31 48.92	− 1.67	17 47 42.72	56.55	19.13	+21 4 51.7	52.0	+ 6.4
41	130 Tauri	9	41 46.39	0.04	**1.31**	5 41 45.01	1.68	21 11 4.98	18.50	23.11	17 41 25.6	26.1	8.1
42	Lal. 11293	9	53 49.73	0.03	1.34	5 53 48.36	1.79	17 16 54.22	8.52	18.57	21 35 40.8	40.6	7.2
43	1 Geminorum	9	58 12.99	0.03	**1.34**	5 58 11.62	1.82	15 36 36.92	50.90	16.69	23 16 0.0	0.1	6.9
44	Lal. 11538	9	0 52.55	0.03	1.34	6 0 51.18	1.83	16 58 57.12	10.12	18.24	21 53 38.2	39.3	7.4
45	3 Geminorum	9	3 50.18	−0.03	−1.34	6 3 48.81	− 1.86	15 44 57.25	12.22	16.85	+23 7 39.5	38.6	+ 7.1

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
2 6 14	74.38	+7.5	+5.8
6 53	74.40	+6.5	+5.2
7 27	74.42	+6.3	+5.2
3 5 30	75.26	+2.0	+1.0
6 2	.....	...	+0.7
6 24	75.32	+1.3	+0.5
7 20	75.33	+1.0	−0.1
6 5 37	76.17	+4.0	+3.8
5 53	76.16	+3.8	...

Bisections are made at II and V, except as noted below.

9, 41. Bisections at III, V.
31. Bisections at III, VI.
39. Bisections at c_4, c_8.

Notes.

1–16. Seeing 3.
15, 16. Through clouds; faint.
17–39. Seeing 3–4.
40–45. Seeing 3.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–16, from stars	+2	19.5	5.8
17–38, from stars	2	19.2	5.5
39, from nadir	2	18.93	5.75
40–45, from stars	+2	19.2	5.3

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
2	19.4	5.5
5	19.1	5.4
14	18.8	6.7
15	20.4	6.1
16	20.8	6.1
17	19.3	5.2
18	19.3	5.5
20	18.5	4.8
24	19.7	5.8
27	18.3	5.3
36	18.4	6.0
37	20.2	5.8
38	20.2	5.4
40	18.8	5.2
41	19.7	6.3
43	18.5	4.7

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	6 Geminorum	9	6 25.86	−0.03	−1.34	6 6 24.49	− 1.87	15 56 53.35	7.65	17.07	+22 55 43.2	43.0	+ 7.3
2	η Geminorum	9	9 0.97	0.03	**1.31**	6 8 59.60	1.87	16 20 36.00	50.08	17.52	22 32 0.0	0.1	7.6
3	B. D.+20° 1348...	9	11 41.41	0.03	1.34	6 11 40.04	1.87	18 2 9.40	23.20	19.46	20 50 24.7	25.1	8.2
4	Mayer 264	9	15 26.14	0.03	1.34	6 15 24.77	1.88	17 42 8.38	23.32	19.08	21 10 26.1	25.3	8.6
5	μ Geminorum	7	17 5.26	0.03	**1.39**	6 17 3.89	1.92	16 18 53.52	7.68	17.50	22 33 42.7	42.5	7.9
6	14 Geminorum	9	19 53.15	−0.03	−1.34	6 19 51.78	− 1.92	17 10 44.92	58.18	18.49	+21 41 50.2	51.0	+ 8.3
7	W. B.₂ VI. 535 ...	9	22 3.74	−0.03	−1.34	6 22 2.37	− 1.96	15 9 3.55	16.12	16.21	+23 43 33.8	35.4	+ 7.7
8	Lal. 12462	9	26 8.55	0.03	1.34	6 26 7.18	1.95	16 37 26.92	40.78	17.87	22 15 8.8	9.1	8.4
9	W. B.₂ VI. 788 ...	9	29 49.27	0.03	1.34	6 29 47.90	1.95	17 54 39.80	53.38	19.35	20 57 54.4	55.0	9.0
10	W. B.₂ VI. 935 ...	9	34 10.75	0.03	1.34	6 34 9.38	2.01	15 7 1.88	16.20	16.18	23 45 35.5	35.3	8.2
11	Lal. 12914	9	38 43.59	0.03	1.34	6 38 42.22	1.99	18 5 13.88	28.48	19.57	20 47 20.1	19.7	9.4
12	B. D.+21° 1372...	9	40 27.53	−0.03	−1.34	6 40 26.16	− 2.01	17 14 38.60	52.82	18.60	+21 37 56.5	56.3	+ 9.2
13	ζ Geminorum	9	58 21.30	−0.03	**−1.37**	6 58 19.93	− 2.07	18 9 53.75	6.80	19.69	+20 42 40.1	41.2	+10.3
14	51 Geminorum	9	7 48.10	0.04	**1.31**	7 7 46.72	2.06	22 33 7.88	22.52	24.93	16 19 20.8	20.3	12.0
15	δ Geminorum	9	14 19.82	0.03	**1.36**	7 14 18.45	− 2.15	16 42 58.65	13.72	18.05	22 9 36.9	35.9	10.5
16	λ Ursæ Minoris S. P.	6	19 16.17	−1.19	−1.34	19 19 13.64	+60.43	307 53 33.85	48.50	76.81	+88 59 22.5	24.0	+ 6.2

1902 MARCH 14.* CLAMP EAST.

UPDEGRAFF, OBSERVER. FREDERICK, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
17	ξ Argus	9	45 13.36	−0.14	**−0.96**	7 45 12.29	− 1.90	63 28 10.00	22.28	117.76	−24 37 12.7	12.0	+23.8
18	ω¹ Cancri	9	55 3.29	+0.04	**0.95**	7 55 2.39	2.22	13 13 9.72	23.65	13.89	+25 39 31.1	30.4	10.7
19	χ Geminorum	9	57 33.23	0.05	**0.95**	7 57 32.34	2.26	10 48 44.25	56.02	11.31	28 3 59.2	60.6	10.1
20	27 Lyncis	9	1 8.97	0.16	0.95	8 1 8.18	2.83	347 5 48.98	3.52	13.48	51 47 19.3	17.9	3.5
21	ζ Cancri	9	6 38.66	0.01	**0.92**	8 6 37.72	2.19	20 56 9.10	24.02	22.62	17 56 23.1	21.4	13.4
22	d¹ Cancri	9	17 48.41	+0.01	**−0.98**	8 17 47.46	− 2.22	20 13 55.58	10.60	21.82	+18 38 37.4	35.6	+13.6
23	o Ursæ Majoris	9	22 11.68	+0.24	−0.97	8 22 10.95	− 3.37	337 50 34.25	47.85	24.00	+61 2 44.5	44.0	+ 2.3
24	110 B. Lyncis........	9	26 36.29	0.09	0.97	8 26 35.41	2.53	0 31 51.32	5.32	0.59	38 21 2.7	2.1	8.4
25	γ Cancri	9	37 40.27	0.02	**0.98**	8 37 39.31	2.32	17 3 32.32	46.32	18.18	21 49 4.3	5.5	13.3
26	ι Cancri	9	40 49.48	+0.05	**−0.98**	8 40 48.54	− 2.40	9 45 49.38	2.22	10.21	+29 6 55.1	55.5	+11.5

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
6 6 14	.....	...	3.2
6 25	76.18	3.2	...
6 45	.....	...	2.5
7 17	76.19	2.5	1.8
14 7 43	76.48	8.7	7.0
8 20	.....	...	6.9
8 25	76.52	8.1	...
8 50	76.57	7.8	6.8

Bisections are made at II and V, except as noted below.

5, 12, 20, 23. Bisections at III, V.
16. Bisections at c_4, c_8.

Notes.
1–16. Seeing 3.
17–26. Seeing 2–3.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–15, from stars	+2	19.2	5.3
16, from nadir......	2	18.59	5.42
17–26, from nadir......	+2	18.02	5.03

Z. P. Corr. from Stars

No.	A.	B.
	″	″
2	19.3	5.5
5	18.9	4.8
13	18.2	5.4
14	20.3	5.9
15	19.7	4.8

*Printed ahead of its chronological order to avoid complications in page heading.

1902 MARCH 9.

CLAMP EAST.

HAMMOND, OBSERVER.

NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. B.	REFR.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	° ′ ″	″
1	50 H. Cephei	9	42 4.20	+0.10	−0.31	4 42 3.99	− 4.49	81 1 10.22	53.02	+81 2 8.5	−13.6
2	ε Ursæ Minoris S. P	6	55 56.97	−0.11	0.31	16 55 56.55	+ 2.91	97 46 32.02	96.94	+82 11 43.2	+15.4
3	ε Leporis	9	1 20.07	−0.06	0.31	5 1 19.70	− 0.93	337 31 12.58	107.40	−22 30 27.6	+19.2
4	19 H. Camelop	8	6 28.53	+0.08	0.31	5 6 28.30	4.45	79 6 23.50	49.64	+79 7 20.0	−12.2
5	τ Orionis	9	12 52.42	−0.04	**0.32**	5 12 52.07	1.19	353 3 37.25	60.55	− 6 57 16.0	+15.3
6	17 Camelop	9	20 57.66	+0.02	−0.31	5 20 57.37	− 2.59	62 58 42.42	26.27	+62 59 16.0	− 7.7
7	74 B. Camelop	9	26 41.17	+0.06	−0.31	5 26 40.92	− 3.85	74 58 6.00	42.82	+74 58 56.1	−10.5
8	158 H^1. Cephei	6	30 41.98	+0.19	0.31	5 30 41.86	− 9.65	85 7 56.72	61.36	85 9 5.3	−12.2
9	ω Draconis S. P	8	37 31.06	−0.03	0.31	17 37 30.72	+ 0.67	111 8 54.60	181.76	68 47 56.4	+14.2
10	ψ^1 Draconis S. P	9	43 39.89	0.04	0.31	17 43 39.54	1.14	107 45 43.72	151.11	72 11 36.9	14.0
11	35 Draconis S. P	9	53 48.17	0.06	0.31	17 53 47.80	+ 2.21	102 59 28.95	120.70	76 58 21.7	+13.1
12	I Geminorum	9	58 11.92	−0.02	**−0.33**	5 58 11.59	− 1.77	23 16	.....	+23 16	....
13	δ Ursæ Minoris S. P	9	3 40.66	−0.27	−0.31	18 3 40.08	+12.75	93 21 52.18	82.36	+86 36 36.9	+11.7
14	η Geminorum	9	8 59.89	0.02	**0.29**	6 8 59.56	− 1.82	22 32 9.38	17.35	22 31 59.3	+ 7.6
15	50 H. Cephei S. P	8	42 5.06	0.57	0.43	4 42 4.06	4.42	98 55 59.20	103.61	81 2 7.9	−13.5
16	49 Herculis	9	47 38.74	−0.01	**0.38**	16 47 38.30	− 1.22	15 8 29.02	26.43	15 8 9.9	+ 8.6
17	ε Ursæ Minoris	9	55 56.50	+0.66	0.43	16 55 56.73	+ 2.83	82 10 39.60	56.42	82 11 41.0	+15.4
18	19 H. Camelop. S. P	9	6 29.01	−0.47	−0.43	5 6 28.11	− 4.40	100 50 38.10	112.05	+79 7 20.9	−12.2
19	α Herculis	8	10 12.28	−0.01	**−0.45**	17 10 11.84	− 1.10	14 30 18.98	27.25	+14 29 59.0	+ 7.5
20	θ Ophiuchi	9	16 1.49	0.11	0.43	17 16 0.95	1.52	335 7 51.68	121.31	−24 54 2.3	− 5.9
21	b Ophiuchi	9	20 25.11	0.10	0.43	17 20 24.58	1.49	335 56 46.90	117.08	−24 5 2.9	5.8
22	74 B. Camelop. S. P	8	26 41.41	0.33	0.43	5 26 40.65	3.81	104 58 41.80	134.28	+74 58 56.6	10.5
23	158 H^1. Cephei S. P	9	30 43.01	−1.07	0.43	5 30 41.51	− 9.52	94 49 17.48	88.37	85 9 6.9	−12.2
24	ω Draconis	9	37 30.94	+0.23	−0.43	17 37 30.74	+ 0.64	68 47 15.72	34.41	+68 47 56.6	+14.2
25	ψ^1 Draconis	9	43 39.84	+0.28	−0.43	17 43 39.69	+ 1.10	72 10 49.32	39.28	+72 11 34.9	+14.0
26	35 Draconis	9	53 48.02	0.39	0.43	17 53 47.98	2.16	76 57 25.12	46.82	76 58 19.2	13.2
27	δ Ursæ Minoris	9	3 39.73	+1.54	0.43	18 3 40.84	+12.57	86 35 23.75	65.61	+86 36 35.3	+11.8
28	η Serpentis	9	16 15.74	−0.05	**−0.46**	18 16 15.26	− 0.92	357 5 17.58	53.47	− 2 55 28.6	− 0.2

1902 MARCH 10.

CLAMP EAST.

HAMMOND, OBSERVER.

NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. B.	REFR.	APPARENT DECL. B.	RED. TO 1902.0
29	e Tauri	9	22 55.13	−0.01	**−0.33**	4 22 54.80	− 1.21	18 57 55.08	20.85	+18 57 41.2	+ 4.5
30	i Tauri	9	45 40.06	0.01	**0.33**	4 45 39.73	− 1.32	18 40 32.00	21.22	18 40 18.8	5.5
31	ε Ursæ Minoris S. P	8	55 57.34	0.16	0.32	16 55 56.86	+ 2.74	97 46 36.52	95.02	+82 11 41.4	15.4
32	ε Leporis	9	1 20.06	−0.04	0.32	5 1 19.70	− 0.91	337 31 10.50	105.27	−22 30 27.8	+19.2
33	19 H. Camelop	9	6 28.43	+0.11	0.32	5 6 28.22	4.34	79 6 24.45	48.66	+79 7 20.1	−12.2
34	τ Orionis	9	12 52.40	−0.03	**−0.33**	5 12 52.05	− 1.17	353 3 36.08	59.36	− 6 57 16.3	+15.3
35	17 Camelop	9	20 57.49	+0.04	−0.32	5 20 57.21	− 2.55	62 58 43.20	25.76	+62 59 16.0	− 7.7
36	74 B. Camelop	9	26 41.02	0.08	0.32	5 26 40.78	3.77	74 58 6.15	42.00	74 58 55.2	10.5
37	158 H^1. Cephei	9	30 41.72	+0.26	0.32	5 30 41.66	− 9.40	85 7 58.55	60.19	85 9 5.8	−12.3
38	ω Draconis S. P	9	37 31.06	−0.05	0.32	17 37 30.69	+ 0.61	111 8 55.22	178.32	68 47 58.6	+14.2
39	ψ^1 Draconis S. P	9	43 40.09	−0.06	0.32	17 43 39.71	1.06	107 45 47.38	148.29	72 11 36.3	14.0
40	35 Draconis S. P	9	53 48.28	+0.09	−0.32	17 53 48.05	+ 2.11	102 59 32.92	118.55	+76 58 20.2	+13.2
41	δ Ursæ Minoris S. P	9	3 41.87	−0.37	−0.32	18 3 41.18	+12.36	93 21 53.55	81.02	+86 36 37.1	+11.8
42	η Geminorum	9	8 59.88	−0.01	**−0.31**	6 8 59.55	− 1.80	22 32	.....	+22 32	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
9 4 29	76.11	9.0	7.2
5 9	76.11	8.0	6.5
6 13	76.13	6.7	5.8
16 46	76.26	2.1	1.9
17 12	.....	....	1.8
17 47	76.29	2.0	2.4
18 9	76.31	2.3	2.8
10 4 35	76.38	14.3	13.6
5 9	.....	....	12.8
5 18	76.37	13.3	....
5 47	.....	....	12.0
6 13	76.37	11.9	10.6

Bisections are made at IV, except as noted below.

1, 17, 24, 25.	Bisections at II, VI.
2, 13, 41.	Bisections at V, III.
4, 27.	Bisections at III, V.
10, 11, 15, 18, 38, 39, 40.	Bisections at VI, II.

Notes.

1–14.	Seeing 2; definition poor.
9.	Very unsteady; poor.
15.	Circle B read on 56′ division.
22.	Very faint; poor.
31.	Faint and unsteady.
41.	Unsteady.

Adopted Equator Point Corrections.

	B. ″
1–14, from nadir	+6.26
15–28, from nadir	6.29
29–41, from nadir	+6.02

1902 MARCH 11. CLAMP EAST.

HAMMOND, OBSERVER. NO ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. B.	REFR.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	° ′ ″	″
1	ε	Tauri	9	22 55.08	−0.02	**−0.29**	4 22 54.68	− 1.19	18 57 54.52	20.49	+18 57 41.9	+ 4.5
2	*i*	Tauri	9	45 40.14	−0.02	**0.42**	4 45 39.74	− 1.30	18 40 31.80	20.87	18 40 18.8	5.5
3	ε	Ursæ Minoris S. P.	8	55 57.24	+0.10	0.38	16 55 56.96	+ 2.57	97 46 36.20	93.52	+82 11 41.8	15.3
4	ε	Leporis	9	1 20.04	−0.03	**0.38**	5 1 19.63	− 0.89	337 31 7.82	103.63	−22 30 27.9	+19.2
5	19	H. Camelop	9	6 28.51	0.08	0.38	5 6 28.05	4.24	79 6 24.75	47.93	+79 7 20.6	−12.2
6	τ	Orionis	9	12 52.44	−0.03	**−0.39**	5 12 52.03	− 1.15	353 3 34.55	58.47	− 6 57 16.0	+15.3
7	17	Camelop	9	20 57.63	−0.03	0.38	5 20 57.22	− 2.50	62 58 43.10	25.38	+62 59 16.4	− 7.7
8	74	B. Camelop	9	26 41.15	0.06	0.38	5 26 40.71	3.69	74 58 6.08	41.38	74 58 55.4	10.5
9	158	H^1. Cephei	9	30 41.56	0.17	0.38	5 30 41.01	− 9.15	85 7 59.65	59.31	85 9 6.9	−12.3
10	ω	Draconis S. P	9	37 31.19	−0.04	0.38	17 37 30.77	+ 0.54	111 8 58.35	175.67	68 47 57.3	+14.3
11	ψ^1	Draconis S. P	9	43 40.10	+0.05	0.38	17 43 39.77	0.99	107 45 49.70	146.12	72 11 35.3	14.1
12	35	Draconis S. P	9	53 48.29	+0.06	−0.38	17 53 47.97	+ 2.02	102 59 33.28	116.73	+76 58 20.7	+13.2
13	1	Geminorum	9	58 11.97	−0.02	**−0.42**	5 58 11.57	− 1.73	23 16	.....	+23 16	....
14	δ	Ursæ Minoris S. P.	9	3 40.72	+0.24	−0.38	18 3 40.58	+11.96	93 21 54.15	79.73	+86 36 36.9	+11.9

1902 MARCH 20.* CLAMP EAST.

HAMMOND, OBSERVER. NO ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. B.	REFR.	APPARENT DECL. B.	RED. TO 1902.0
15	49	Herculis	9	47 39.23	0.00	**−0.57**	16 47 38.63	− 1.53	15 8 29.18	25.90	+15 8 10.1	+ 8.7
16	ε	Ursæ Minoris	8	55 58.41	+0.60	0.60	16 55 58.41	+ 1.13	82 10 40.55	55.27	82 11 42.0	+14.8
17	19	H. Camelop. S. P	9	6 28.11	−0.42	0.60	5 6 27.09	− 3.22	100 50 44.15	109.80	79 7 19.3	−11.7
18	α	Herculis	9	10 12.72	0.01	**0.58**	17 10 12.11	1.41	14 30 18.95	26.69	+14 29 59.0	+ 7.5
19	θ	Ophiuchi	9	16 1.98	0.10	0.60	17 16 1.28	1.87	335 7 49.60	118.88	−24 54 2.5	− 5.5
20	*b*	Ophiuchi	9	20 25.61	−0.09	−0.60	17 20 24.92	− 1.83	335 56 44.85	114.76	−24 5 3.1	− 5.4
21	74	B. Camelop. S. P.	9	26 40.78	−0.30	−0.60	5 26 39.88	− 2.96	104 58 44.42	131.70	+74 58 57.1	−10.3
22	158	H^1. Cephei S. P.	7	30 40.22	−0.96	0.60	5 30 38.66	6.79	94 49 19.65	86.68	85 9 6.9	−12.1
23	ω	Draconis	9	37 31.86	+0.20	0.60	17 37 31.46	− 0.07	68 47 15.65	33.77	68 47 56.2	+14.2
24	ψ^1	Draconis	9	43 40.86	0.25	0.60	17 43 40.51	+ 0.27	72 10 50.60	38.57	72 11 35.0	14.1
25	35	Draconis	9	53 49.22	0.35	0.60	17 53 48.97	1.07	76 57 27.08	45.99	76 58 18.5	13.4
26	δ	Ursæ Minoris	9	3 44.20	+1.38	0.60	18 3 44.98	+ 8.65	86 35 25.40	64.51	+86 36 35.4	+12.2
27	η	Serpentis	9	16 16.23	−0.04	**−0.65**	18 16 15.59	− 1.23	357 5 17.25	52.63	− 2 55 28.6	− 0.2

1902 MARCH 22. CLAMP EAST.

HAMMOND, OBSERVER. NO ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. B.	REFR.	APPARENT DECL. B.	RED. TO 1902.0
28	ε	Ursæ Minoris	9	55 58.59	+0.84	−0.59	16 55 58.84	+ 0.79	82 10 41.12	55.04	+82 11 42.0	+14.6
29	19	H. Camelop. S. P	9	6 27.98	−0.59	0.59	5 6 26.80	− 3.01	100 50 44.32	109.40	79 7 20.4	−11.5
30	α	Herculis	9	10 12.77	0.01	**0.57**	17 10 12.17	1.47	14 30 19.68	26.59	+14 29 58.9	+ 7.5
31	θ	Ophiuchi	9	16 2.09	0.13	0.59	17 16 1.37	1.93	335 7 50.75	118.47	−24 54 1.9	− 5.5
32	*b*	Ophiuchi	9	20 25.69	0.12	0.59	17 20 24.98	1.89	335 56 45.62	114.37	−24 5 2.9	5.4
33	74	B. Camelop. S. P	9	26 40.78	−0.42	−0.59	5 26 39.77	− 2.81	104 58 45.12	131.25	+74 58 57.8	−10.1
34	158	H^1. Cephei S. P	7	30 40.10	−1.35	−0.59	5 30 38.16	− 6.31	94 49 20.32	86.38	+85 9 7.4	−12.0
35	ι	Herculis	9	36 43.33	+0.10	**0.57**	17 36 42.84	− 0.93	46 3 3.58	7.33	46 3 16.8	+13.1
36	ψ^1	Draconis	9	43 40.97	0.35	0.59	17 43 40.73	+ 0.13	72 10 52.22	38.43	72 11 35.5	14.1
37	35	Draconis	9	53 49.47	0.49	0.59	17 53 49.37	0.87	76 57 28.35	45.85	76 58 18.7	13.5
38	δ	Ursæ Minoris	9	3 44.29	+1.94	0.59	18 3 45.64	+ 7.85	86 35 26.28	64.30	+86 36 35.1	+12.2
39	η	Serpentis	9	16 16.29	−0.05	**−0.64**	18 16 15.65	− 1.29	357 5 17.48	52.46	− 2 55 29.1	− 0.2

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
11 4 38	76.15	17.7	17.4
5 9	76.16	17.1	16.2
5 47	.....	....	15.3
6 13	76.20	15.6	14.5
20 16 36	75.41	4.6	4.4
17 13	75.42	4.6	4.3
17 35	.....	....	4.3
18 19	75.46	4.5	4.2
22 16 41	75.67	7.0	6.4
17 13	75.60	6.9	6.1
18 27	75.75	6.5	6.0

Bisections are made at IV, except as noted below.

3, 14.	Bisections at V, III.
10, 11, 12.	Bisections at VI, II.
16, 26, 38.	Bisections at III, V.
24, 25, 36, 37.	Bisections at II, VI.

Notes.

1–14, 28–39.	Seeing 2–3; low stars unsteady.
3, 17, 21, 31, 32.	Unsteady.

Adopted Equator Point Corrections.

	B. ″
1–14, from nadir	+6.90
15–27, from nadir	5.79
28–39, from nadir	+4.86

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*The observations of March 14 will be found on page C 38.

1902 MARCH 23. CLAMP EAST.

HAMMOND, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\varDelta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. B.	REFR.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	° ′ ″	″
1	θ Aurigæ	9	53 4.37	+0.02	**−0.42**	5 53 3.97	− 1.66	37 12 16.10	1.69	+37 12 19.8	+ 1.9
2	δ Ursæ Minoris S. P.	9	3 47.28	−0.71	0.42	18 3 46.15	+ 7.65	93 21 57.88	78.90	86 36 36.5	12.2
3	η Geminorum	9	8 59.66	0.00	**0.36**	6 8 59.24	− 1.54	22 32 10.80	16.62	22 31 59.6	7.5
4	χ Draconis S. P.	9	22 49.24	−0.13	0.42	18 22 48.69	+ 0.57	107 16 17.95	141.48	72 41 14.2	+12.7
5	23 H. Camelop	9	29 35.84	−0.23	0.42	6 29 35.65	− 4.70	79 39 32.90	48.71	79 40 25.3	− 8.8
6	156 H¹. Draconis S. P.	9	34 28.09	−0.19	−0.42	18 34 27.48	+ 1.53	102 29 57.52	113.40	+77 28 3.7	+11.9
7	ε Geminorum	8	37 56.34	+0.01	**−0.43**	6 37 55.93	− 1.73	25 13 42.68	13.79	+25 13 34.3	+ 7.7
8	24 H. Camelop	9	45 51.34	+0.18	0.42	6 45 51.10	− 4.25	77 5 26.55	44.49	77 6 16.4	− 7.8
9	50 Draconis S. P.	8	49 31.56	−0.16	0.42	18 49 30.98	+ 1.28	104 38 53.92	124.88	75 18 55.8	+11.4
10	51 H. Cephei	8	54 58.65	+0.86	0.42	6 54 59.09	−15.48	87 11 11.60	63.42	87 12 20.4	− 9.3
11	63 Aurigæ	9	4 57.47	0.02	**0.45**	7 4 57.07	2.05	39 28 41.28	0.55	39 28 47.2	+ 3.7
12	θ Herculis	9	52 54.94	+0.06	**−0.46**	17 52 54.55	− 1.02	37 15 32.00	1.69	+37 15 35.7	+11.1
13	δ Ursæ Minoris	8	3 43.92	+1.72	−0.45	18 3 45.19	+ 7.44	86 35 26.65	63.93	+86 36 36.0	+12.2
14	η Serpentis	9	16 16.12	−0.04	**0.45**	18 16 15.63	− 1.32	357 5 18.35	52.07	− 2 55 28.3	− 0.2
15	χ Draconis	9	22 49.02	+0.32	0.45	18 22 48.89	+ 0.53	72 40 30.15	38.88	+72 41 13.5	+12.7
16	51 H. Cephei S. P.	9	55 0.72	−2.09	0.45	6 54 58.18	−15.24	92 46 14.05	79.45	87 12 21.1	− 9.3
17	ζ Aquilæ	9	0 55.74	0.00	**−0.44**	19 0 55.29	− 0.96	13 43 21.85	27.35	+13 42 59.9	+ 3.3

1902 MARCH 25. CLAMP EAST.

HAMMOND, OBSERVER. NO ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\varDelta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. B.	REFR.	APPARENT DECL. B.	RED. TO 1902.0
18	θ Aurigæ	9	53 4.09	+0.06	**−0.23**	5 53 3.93	− 1.61	37 12 17.62	1.73	+37 12 19.1	+ 2.0
19	δ Ursæ Minoris S. P.	8	3 48.90	−1.64	0.22	18 3 47.04	+ 6.86	93 21 57.90	80.58	86 36 37.0	12.1
20	η Geminorum	9	8 59.43	+0.02	**0.19**	6 8 59.23	− 1.50	22 32 13.38	16.97	22 31 59.6	7.5
21	χ Draconis S. P.	9	22 49.68	−0.30	0.22	18 22 49.16	+ 0.41	107 16 16.75	144.66	72 41 14.4	+12.6
22	23 H. Camelop	9	29 35.03	+0.53	0.22	6 29 35.34	− 4.47	79 39 33.35	49.80	79 40 24.6	− 8.9
23	156 H¹. Draconis S. P.	7	34 28.51	−0.43	−0.22	18 34 27.86	+ 1.31	102 29 56.70	115.98	+77 28 4.1	+12.0
24	ε Geminorum	9	37 56.09	+0.02	**−0.23**	6 37 55.89	− 1.69	25 13 44.90	14.11	+25 13 34.0	+ 7.7
25	24 H. Camelop	9	45 50.77	0.42	0.22	6 45 50.97	− 4.05	77 5 27.55	45.53	77 6 16.3	− 7.9
26	51 H. Cephei	9	54 56.30	1.99	0.22	6 54 58.07	14.54	87 11 11.50	64.92	87 12 19.6	− 9.4
27	63 Aurigæ	9	4 57.18	0.06	**0.24**	7 4 57.02	2.01	39 28 42.12	0.57	39 28 45.9	+ 3.6
28	θ Herculis	9	52 54.83	0.08	**0.31**	17 52 54.61	− 1.08	37 15 34.60	1.74	37 15 36.1	11.1
29	δ Ursæ Minoris	9	3 44.02	+2.33	−0.30	18 3 46.05	+ 6.67	86 35 27.52	65.77	+86 36 35.2	+12.1
30	η Serpentis	9	16 16.07	−0.05	**−0.33**	18 16 15.72	− 1.38	357 5 21.95	53.68	− 2 55 28.5	− 0.3
31	χ Draconis	9	22 48.92	+0.44	0.30	18 22 49.06	+ 0.37	72 40 30.68	40.12	+72 41 13.1	+12.6
32	24 H. Camelop. S. P.	9	45 51.74	−0.60	0.30	6 45 50.84	− 4.00	102 51 35.48	122.12	77 6 17.8	− 7.9
33	51 H. Cephei S. P.	9	55 0.61	−2.83	0.30	6 54 57.48	14.31	92 46 12.38	81.88	87 12 20.9	− 9.4
34	ζ Aquilæ	9	0 55.62	0.00	**−0.27**	19 0 55.32	− 1.01	13 43 24.65	28.18	+13 42 59.7	+ 3.3

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
23 5 56	75.78	17.0	16.3
6 26	75.76	16.5	15.8
7 3	75.77	15.8	15.4
17 56	75.62	7.5	7.0
18 26	75.62	7.7	7.8
19 8	75.66	8.0	8.0
25 5 55	76.01	12.8	11.5
6 31	.....	....	10.6
6 44	76.03	12.0	....
7 1	76.03	11.5	9.9
17 51	76.25	3.3	2.0
18 31	76.29	3.0	1.7
19 8	76.34	3.5	2.7

Bisections are made at IV, except as noted below.

2, 19, 33.	Bisections at V, III.
4, 21, 32.	Bisections at VI, II.
5, 15, 22, 31.	Bisections at II, VI.
29.	Bisections at III, V.

Notes.

1–11.	Seeing 4.
7.	Hurried.
12–17.	Seeing 2; stars unsteady.
12, 13, 19.	Unsteady.
16.	Very faint and unsteady; poor.

Adopted Equator Point Corrections.

	B. ″
1–11, from nadir	+4.38
12–17, from nadir	4.44
18–27, from nadir	2.20
28–34, from nadir	+2.27

1902 MARCH 26. CLAMP EAST.

HAMMOND, OBSERVER. FREDERICK, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	1 H. Draconis	5	23 16.15	+0.56	−0.24	9 23 16.47	− 7.57	317 8 11.60	.....	54.41	+81 45 36.7	....	− 1.0
2	ψ Leonis	9	38 26.28	0.00	**0.22**	9 38 26.04	2.30	24 24 29.35	41.45	26.74	14 27 56.9	57.1	+15.9
3	ν Leonis	9	52 59.70	−0.01	**0.27**	9 52 59.45	2.34	25 57 57.20	8.82	28.71	12 54 27.3	27.6	16.5
4	α Leonis	9	3 11.82	0.01	**0.21**	10 3 11.57	2.36	26 25 54.02	6.05	29.33	12 26 30.0	29.6	16.6
5	37 Leonis	9	11 27.78	−0.01	0.24	10 11 27.53	2.38	24 39 41.20	51.98	27.10	14 12 45.1	45.9	16.2
6	42 Leonis	9	16 36.79	0.00	−0.24	10 16 36.55	− 2.40	23 24 31.35	43.32	25.57	+15 27 56.6	55.9	+16.0
7	W. B.$_2$ X. 406	9	23 12.96	0.00	−0.24	10 23 12.72	− 2.41	23 37 27.88	39.68	25.83	+15 14 59.9	59.2	+16.1
8	46 Leonis	9	27 0.61	0.00	0.24	10 27 0.37	2.42	24 14 17.28	28.50	26.60	14 38 9.7	9.6	16.2
9	Lal. 20522	9	31 52.22	−0 01	0.24	10 31 51.97	2.43	25 30 10.80	22.72	28.19	13 22 14.7	13.7	16.5
10	W. B.$_2$ X. 635	9	33 59.11	0.00	0.24	10 33 58.87	2.43	23 38 11.15	22.70	25.87	15 14 16.8	16.1	16.1
11	Lal. 20748	9	41 10.98	−0.01	0.24	10 41 10.73	2.44	25 36 49.98	1.05	28.34	13 15 35.5	35.1	16.5
12	l Leonis	9	44 9.05	−0.01	**−0.16**	10 44 8.80	− 2.45	27 48 50.60	59.62	31.18	+11 3 32.2	33.6	+17.0
13	χ Leonis	9	0 0.54	−0.02	**−0.29**	11 0 0.28	− 2.47	31 0 39.22	48.50	35.56	+ 7 51 39.3	40.2	+17.4
14	θ Leonis	9	9 8.63	0.00	**−0.26**	11 9 8.39	− 2.47	22 54 48.88	1.30	25.03	+15 57 40.2	37.8	+16.2

1902 MARCH 29. CLAMP EAST.

HAMMOND, OBSERVER. NO ASSISTANT.

15	β Andromedæ	8	4 14.64	−0.03	**+0.18**	1 4 14.75	− 0.27	3 46	.....	.....	+35 6	....	....
16	α Ursæ Minoris	9	22 57.89	1.70	0.14	1 22 56.33	+26.06	310 6	57.17	64.08	88 47	11.6	− 9.5
17	β Arietis	9	49 13.71	−0.02	**+0.10**	1 49 13.83	− 0.34	18 32	.....	.....	+20 20	....	....

1902 MARCH 29. CLAMP EAST.

HAMMOND, OBSERVER. FREDERICK, ASSISTANT.

18	1 H. Draconis	9	23 15.73	+0.66	+0.09	9 23 16.48	− 7.25	317 8 11.20	21.78	52.34	+81 45 36.3	36.1	− 1.6
19	ψ Leonis	9	38 25.92	0.00	**0.10**	9 38 26.01	2.26	24 24 33.10	43.12	25.70	14 27 56.9	57.4	+15.7
20	ν Leonis	9	52 59.37	0.00	**0.02**	9 52 59.46	2.31	25 58 0.08	11.50	27.59	12 54 28.1	27.1	16.3
21	α Leonis	9	3 11.40	0.00	**0.17**	10 3 11.49	2.33	26 25 57.95	9.85	28.18	12 26 29.6	28.2	16.4
22	37 Leonis	9	11 27.43	0.00	0.09	10 11 27.52	2.36	24 39 43.48	55.12	26.03	14 12 46.2	45.1	16.1
23	42 Leonis	9	16 36.46	+0.01	+0.09	10 16 36.56	− 2.38	23 24 35.10	46.28	24.56	+15 27 56.1	55.4	+15.9
24	Lal. 20181	9	19 47.64	0.00	+0.09	10 19 47.73	− 2.38	25 39 6.72	18.40	27.23	+13 13 21.8	20.6	+16.4
25	W. B.$_2$ X. 406	9	23 12.61	0.00	0.09	10 23 12.70	2.39	23 37 30.92	42.52	24.81	15 14 60.0	58.9	15.9
26	46 Leonis	9	27 0.24	0.00	0.09	10 27 0.33	2.40	24 14 20.68	32.05	25.54	14 38 9.5	8.6	16.1
27	Lal. 20522	9	31 51.86	0.00	0.09	10 31 51.95	2.41	25 30 14.50	26.20	27.07	13 22 14.2	13.0	16.4
28	W.B.$_2$ X. 635	9	33 58.77	0.00	0.09	10 33 58.86	2.41	23 38 13.05	25.12	24.84	15 14 17.8	16.3	16.0
29	B. D.+14° 2285	9	36 55.64	0.00	+0.09	10 36 55.73	− 2.42	24 53 41.68	54.15	26.34	+13 58 47.7	45.7	+16.3
30	Lal. 20748	9	41 10.63	0.00	+0.09	10 41 10.72	− 2.43	25 36 52.48	4.72	27.21	+13 15 36.0	34.3	+16.4
31	l Leonis	9	44 8.78	0.00	**0.08**	10 44 8.87	2.43	27 48 52.90	3.05	29.94	11 3 32.9	33.2	16.9
32	χ Leonis	9	0 0.16	−0.01	**0.07**	11 0 0.24	2.46	31 0 42.10	51.80	34.16	7 51 39.5	40.3	17.3
33	θ Leonis	9	9 8.23	+0.01	**0.12**	11 9 8.33	2.46	22 54 51.32	3.32	24.05	15 57 40.3	38.9	15.9
34	β Virginis	9	45 37.93	−0.02	**0.09**	11 45 38.04	2.57	36 33 28.32	39.42	42.23	2 18 44.4	44.4	17.2
35	7 Virginis	9	54 58.20	−0.02	**+0.16**	11 54 58.31	− 2.56	34 40 28.65	39.20	39.41	+ 4 11 46.9	47.4	+16.8
36	η Virginis	9	14 56.03	−0.03	**+0.13**	12 14 56.12	− 2.60	38 59 45.30	56.05	46.15	− 0 7 36.5	36.2	+16.4
37	W. B.$_1$ XII. 225	9	16 39.43	0.03	0.11	12 16 39.51	2.60	38 29 15.62	25.58	45.32	+ 0 22 54.1	55.2	16.3
38	Lal. 23271	9	21 47.54	0.03	0.11	12 21 47.62	2.60	38 30 51.50	3.60	45.37	+ 0 21 18.1	17.1	16.2
39	Lal. 23399	9	26 16.66	0.02	0.11	12 26 16.75	2.59	37 0 20.95	32.08	42.98	+ 1 51 51.1	51.0	16.0
40	Mayer 531	9	29 24.39	0.03	0.10	12 29 24.46	2.62	39 44 26.68	37.10	47.40	− 0 52 19.1	18.4	15.9
41	Lal. 23581	9	32 6.53	−0.03	+0.10	12 32 6.60	− 2.63	40 39 5.78	16.12	48.96	− 1 46 59.7	59.0	+15.8
42	Lal. 23700	9	37 5.44	−0.02	+0.10	12 37 5.52	− 2.60	37 50 26.25	.....	44.31	+ 1 1 44.4	....	+15.6
43	Lal. 23859	9	43 8.31	0.03	0.10	12 43 8.38	2.61	38 41 50.88	2.25	45.70	+ 0 10 18.4	18.1	15.4
44	W. B.$_1$ XII. 729	9	45 24.74	−0.03	+0.09	12 45 24.80	− 2.62	40 9 50.78	1.10	48.15	− 1 17 43.9	43.2	+15.3

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm	°	°
26 9 30	76.30	9.2	7.4
10 8	76.29	8.6	6.7
11 2	76.28	7.9	6.0
29 1 12	74.46	22.5	23.4
1 35	74.44	22.7	23.2
9 26	75.01	14.6	13.4
10 5	74.99	14.2	12.9
10 45	74.98	13.7	12.5
11 25	75.04	13.3	11.8
12 10	75.02	12.6	11.3

Bisections are made at II and V, except as noted below.

1.	Bisection at IV.
3, 4.	Bisections at II, VI.
10, 18.	Bisections at III, V.
16.	Bisections at c_1, c_2, c_4, c_5.
42.	Bisection at II.

Notes.

1–14.	Faint, but steady; through clouds.
1.	Clouds.
10.	Faint.
15, 16.	Very unsteady; poor.
18–44.	Seeing 3-4.
21.	Circle A read on 26′ division.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1, from nadir	+2	19.08	....
2–14, from stars 9^h 51^m.	2	19.60	7.87
2–14, from stars 10 58 .	2	18.80	8.73
16, from nadir		.....	8.05
18, from nadir	2	17.23	6.94
19–33, from stars	2	17.1	6.8
34–44, from stars	+2	17.9	7.0

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
2	20.3	8.4
3	19.1	7.7
4	19.4	7.5
12	18.4	9.5
13	17.9	8.8
14	20.1	7.9
19	17.4	7.6
20	17.2	5.9
21	16.4	[4.7]
31	17.2	7.2
32	16.3	6.8
33	18.3	6.6
34	18.1	7.2
35	17.6	7.2
36	17.7	7.1

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	δ Virginis	9	50 42.47	−0.02	+**0.11**	12 50 42.54	− 2.56	34 56 42.75	53.18	39.89	+ 3 55 32.3	33.0	+15.2
2	48 Virginis	9	58 54.01	0.03	**0.07**	12 58 54.07	2.64	42 0 27.82	38.72	51.42	− 3 8 24.2	24.1	14.7
3	θ Virginis	9	4 55.11	0.04	**0.08**	13 4 55.15	− 2.66	43 53 10.15	22.60	54.93	− 5 1 10.1	11.5	+14.3
4	α Ursæ Minoris S.P.	9	23 1.50	−4.49	+0.08	1 22 57.09	+26.10	307 41 22.72	33.64	73.74	+88 47 12.8	13.0	− 9.3

1902 MARCH 30.

CLAMP EAST.

HAMMOND, OBSERVER.

FREDERICK, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
5	I H. Draconis	9	23 14.97	+0.95	+0.29	9 23 16.21	− 7.14	317 8 10.82	21.85	53.14	+81 45 37.2	36.7	− 1.8
6	ψ Leonis	9	38 25.70	0.02	**0.29**	9 38 26.01	2.25	24 24 31.65	43.35	26.10	14 27 56.9	56.6	+15.7
7	ν Leonis	9	52 59.10	0.01	**0.27**	9 52 59.40	2.30	25 57 58.30	9.92	28.03	12 54 28.3	28.1	16.3
8	α Leonis	9	3 11.19	0.01	**0.36**	10 3 11.49	2.32	26 25 56.18	7.62	28.62	12 26 29.8	29.8	16.3
9	37 Leonis	9	11 27.20	0.01	0.29	10 11 27.50	2.35	24 39 43.02	53.85	26.45	14 12 45.2	45.7	16.1
10	42 Leonis	9	16 36.28	+0.02	+0.29	10 16 36.59	− 2.37	23 24 34.45	45.95	24.96	+15 27 55.2	55.1	+15.8
11	Lal. 20181	9	19 47.43	+0.01	+0.29	10 19 47.73	− 2.37	25 39 5.48	17.30	27.68	+13 13 21.5	21.0	+16.3
12	W. B.₂ X. 406	9	23 12.40	0.02	0.29	10 23 12.71	2.38	23 37 30.18	41.42	25.22	15 14 59.2	59.4	15.9
13	46 Leonis	9	26 59.99	0.02	0.29	10 27 0.30	2.39	24 14 19.42	31.40	25.97	14 38 9.2	8.7	16.1
14	Lal. 20522	9	31 51.62	0.01	0.29	10 31 51.92	2.40	25 30 13.78	25.58	27.52	13 22 13.3	12.9	16.3
15	W. B.₂ X. 635	9	33 58.54	0.02	0.29	10 33 58.85	2.41	23 38 12.38	23.88	25.26	15 14 17.0	16.9	16.0
16	B. D. + 14° 2285	9	36 55.40	+0.01	+0.29	10 36 55.70	− 2.41	24 53 40.50	53.62	26.79	+13 58 47.3	45.6	+16.2
17	Lal. 20748	9	41 10.38	+0.01	+0.29	10 41 10.68	− 2.42	25 36 51.02	2.82	27.68	+13 15 35.9	35.5	+16.4
18	*l* Leonis	9	44 8.56	0.01	**0.29**	10 44 8.86	2.43	27 48 51.15	1.95	30.44	11 3 33.0	33.6	16.8
19	χ Leonis	9	59 59.98	0.00	**0.24**	11 0 0.27	2.46	31 0 40.20	50.65	34.72	7 51 39.7	40.7	17.3
20	θ Leonis	9	9 8.03	+0.02	**0.31**	11 9 8.34	2.46	22 54 50.50	3.05	24.44	15 57 39.7	38.5	15.9
21	β Virginis	9	45 37.74	−0.02	**0.28**	11 45 38.00	2.57	36 33 26.95	38.60	42.92	2 18 44.3	43.6	17.2
22	7 Virginis	9	54 58.07	−0.01	+**0.28**	11 54 58.34	− 2.56	34 40 27.08	37.70	40.07	+ 4 11 47.0	47.5	+16.8
23	η Virginis	9	14 55.85	−0.03	+**0.32**	12 14 56.10	− 2.61	38 59 43.78	54.60	46.94	− 0 7 36.5	36.1	+16.4
24	W. B.₁ XII. 225	9	16 39.20	0.02	0.28	12 16 39.46	2.60	38 29 13.32	24.82	46.09	+ 0 22 54.8	54.6	16.3
25	Lal. 23271	9	21 47.37	0.02	0.28	12 21 47.63	2.61	38 30 50.65	1.38	46.14	0 21 17.4	18.0	16.2
26	Lal. 23399	9	26 16.51	0.02	0.28	12 26 16.77	2.60	37 0 19.20	30.72	43.71	+ 1 51 51.3	51.2	16.0
27	Mayer 531	9	29 24.23	0.03	0.28	12 29 24.48	2.62	39 44 25.50	35.88	48.22	− 0 52 19.5	18.4	15.9
28	Lal. 23581	9	32 6.31	−0.03	+0.28	12 32 6.56	− 2.63	40 39 4.18	15.02	49.80	− 1 46 59.8	59.2	+15.8
29	Lal. 23700	9	37 5.23	−0.02	+0.28	12 37 5.49	− 2.61	37 50 25.42	37.00	45.07	+ 1 1 43.7	43.7	+15.6
30	Lal. 23859	9	43 8.11	0.03	0.28	12 43 8.36	2.61	38 41 49.22	0.78	46.49	+ 0 10 18.5	18.6	15.4
31	W. B.₁ XII. 729	9	45 24.53	0.03	0.28	12 45 24.78	2.63	40 9 49.20	59.92	48.98	− 1 17 44.0	43.0	15.3
32	δ Virginis	9	50 42.27	0.02	**0.32**	12 50 42.53	2.57	34 56 41.15	52.25	40.58	+ 3 55 32.5	33.0	15.2
33	48 Virginis	9	58 53.87	0.04	**0.23**	12 58 54.11	2.65	42 0 25.88	37.95	52.26	− 3 8 23.9	24.3	14.8
34	θ Virginis	9	4 54.97	−0.04	+**0.23**	13 4 55.21	− 2.67	43 53 9.10	21.68	55.80	− 5 1 10.7	11.4	+14.4

1902 APRIL 3.

CLAMP EAST.

HAMMOND, OBSERVER.

FREDERICK, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
35	I H. Draconis	9	23 14.74	+0.50	+0.40	9 23 15.64	− 6.68	317 8 6.38	19.15	54.21	+81 45 38.7	38.2	− 2.6
36	ψ Leonis	9	38 25.61	0.00	**0.36**	9 38 26.01	2.21	24 24 26.35	40.22	26.62	14 27 57.1	57.5	+15.5
37	α Leonis	9	3 11.09	−0.01	**0.44**	10 3 11.48	2.28	26 25 50.90	5.10	29.17	12 26 30.4	29.8	16.1
38	37 Leonis	9	11 27.09	0.00	0.40	10 11 27.49	2.31	24 39 38.15	50.55	26.95	14 12 45.4	46.5	15.8
39	Lal. 20109	9	17 18.72	0.00	0.40	10 17 19.12	2.34	21 38 32.00	44.72	23.31	17 13 55.3	55.9	15.2
40	Lal. 20181	9	19 47.31	0.00	+0.40	10 19 47.71	− 2.34	25 39 1.02	14.15	28.21	+13 13 21.4	21.6	+16.1
41	W. B.₂ X. 408	9	23 13.05	0.00	+0.40	10 23 13.45	− 2.35	22 37 20.18	33.65	24.49	+16 15 6.0	5.7	+15.4
42	Lal. 20406	9	27 6.57	0.00	0.40	10 27 6.97	2.36	25 27 16.22	29.35	27.98	13 25 6.5	6.5	16.1
43	Lal. 20522	9	31 51.53	0.00	0.40	10 31 51.93	2.37	25 30 8.80	22.28	28.05	13 22 14.0	13.4	16.1
44	W. B.₂ X. 635	9	33 58.46	0.00	0.40	10 33 58.86	2.38	23 38 7.18	21.32	25.74	15 14 17.9	16.7	15.7
45	B. D. + 14° 2285	9	36 55.32	0.00	0.40	10 36 55.72	2.38	24 53 36.28	49.92	27.30	13 58 47.2	46.5	16.0
46	Lal. 20748	9	41 10.28	0.00	0.40	10 41 10.68	2.39	25 36 47.62	59.32	28.21	13 15 35.1	36.1	16.2
47	*l* Leonis	9	44 8.44	−0.01	+**0.40**	10 44 8.83	− 2.40	27 48 46.58	58.10	31.04	+11 3 33.4	34.5	+16.6

Time. d	Time. h	Time. m	Barom.	Att. Ther.	Ext. Ther.
d	h	m	cm.	°	°
29	12	48	75.02	12.1	11.0
	13	28	75.04	11.6	10.4
30	9	25	74.97	10.3	9.1
	10	6	74.93	10.0	8.4
	10	46	74.90	9.2	7.7
	11	12	74.88	8.6	7.2
	11	47	74.87	8.4	6.6
	12	18	74.85	7.9	6.2
	12	48	74.84	7.5	5.7
	13	25	74.81	7.2	6.0
3	9	25	75.75	7.3	6.6
	10	5	75.75	7.0	6.4
	10	39	75.75	6.6	5.7

Bisections are made at II and V, except as noted below.

4. Bisections at c_5, c_4, c_2, c_1.

5, 35. Bisections at III, V.

Notes.

1–4, 45–47. Seeing 3–4.

5–34, 35–44. Seeing 3.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1– 3, from stars	+2	17.9	7.0
4, from nadir	2	17.23	6.20
5, from nadir	2	17.50	7.13
6–20, from stars	2	18.2	7.0
21–34, from stars $\begin{cases} 11^h 59^m \\ 12\ 58.. \end{cases}$	2	18.7	$\begin{cases} 7.73 \\ 7.07 \end{cases}$
35, from nadir	2	21.48	9.36
36–47, from stars 9 50..	2	22.60	8.80
36–47, from stars 10 58..	+2	21.67	9.57

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
1	17.4	7.2
2	17.5	6.7
3	19.2	6.9
6	18.5	7.0
7	18.5	7.1
8	17.6	6.4
18	18.3	7.7
19	17.6	7.4
20	18.8	6.4
21	18.8	7.3
22	18.5	8.1
23	18.5	7.8
32	18.4	7.4
33	18.7	6.7
34	19.5	7.1
36	23.0	9.4
37	22.2	8.2
47	22.1	10.8

NO.		NAME.	THDS.	MEAN THREAD.	$C_0' \sec\delta + n \tan\delta$	$\Delta T - m$.	APPARENT R. A.	RED. TO 1902.0.	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
									A.	B.		A.	B.	
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	χ	Leonis	9	59 59.78	−0.01	+**0.43**	11 0 0.17	− 2.44	31 0 36.12	47.38	35.41	+ 7 51 39.7	40.6	+17.1
2	θ	Leonis	9	9 7.94	0.00	**0.40**	11 9 8.34	2.44	22 54 46.42	0.48	24.93	15 57 40.0	37.9	15.6
3	β	Virginis	9	45 37.59	−0.02	**0.43**	11 45 38.01	2.57	36 33 22.22	35.42	43.68	2 18 45.1	43.7	17.2
4	7	Virginis	9	54 57.91	0.02	**0.45**	11 54 58.32	2.56	34 40 23.55	34.90	40.79	+ 4 11 46.5	47.3	16.7
5	η	Virginis	9	14 55.77	0.03	**0.41**	12 14 56.16	2.62	38 59 39.22	51.30	47.83	− 0 7 36.4	35.9	16.4
6		W. B.₁ XII. 225	9	16 39.09	−0.03	+0.42	12 16 39.48	− 2.62	38 29 9.92	21.90	46.97	+ 0 22 53.8	54.5	+16.4
7		Lal. 23271	9	21 47.26	−0.03	+0.41	12 21 47.64	− 2.62	38 30 46.52	58.52	47.03	+ 0 21 17.1	17.9	+16.2
8		Lal. 23399	9	26 16.37	0.02	0.41	12 26 16.76	2.61	37 0 14.88	27.08	44.56	+ 1 51 51.1	51.8	16.0
9		Mayer 531	9	29 24.11	0.03	0.41	12 29 24.49	2.64	39 44 20.68	33.25	49.15	− 0 52 19.2	18.9	16.0
10		Lal. 23581	9	32 6.19	0.03	0.41	12 32 6.57	2.65	40 38 59.95	11.45	50.76	− 1 46 60.2	58.7	16.0
11		Lal. 23700	9	37 5.16	0.03	0.40	12 37 5.53	2.62	37 50 20.90	33.88	45.94	+ 1 1 43.7	43.8	15.7
12		Piazzi XII, 170	9	39 11.69	−0.03	+0.40	12 39 12.06	− 2.66	41 10 34.78	47.48	51.74	− 2 18 36.0	35.6	+15.7
13		Lal. 23859	9	43 8.02	−0.03	+0.40	12 43 8.39	− 2.63	38 41 45.58	57.85	47.38	+ 0 10 17.4	18.5	+15.5
14		W. B.₁ XII. 729	9	45 24.43	0.03	0.40	12 45 24.80	2.65	40 9 44.70	56.68	49.92	− 1 17 44.2	42.9	15.4
15	δ	Virginis	9	50 42.20	0.02	**0.41**	12 50 42.57	2.59	34 56 36.70	50.55	41.36	+ 3 55 32.2	31.9	15.2
16	48	Virginis	9	58 53.72	0.03	**0.39**	12 58 54.08	2.67	42 0 20.85	34.68	53.31	− 3 8 23.8	24.0	14.8
17	θ	Virginis	9	4 54.86	0.04	**0.37**	13 4 55.20	− 2.70	43 53 4.42	17.85	56.95	− 5 1 11.1	10.7	+14.5
18	α	Ursæ Minoris S.P.	9	22 59.00	−3.45	+0.38	1 22 55.93	+26.95	307 41 19.60	31.84	76.45	+88 47 11.2	11.6	− 7.9
		HAMMOND, OBSERVER.					1902 APRIL 5.		CLAMP EAST.			FREDERICK, ASSISTANT.		
19	1	H. Draconis	9	23 14.31	+0.36	+0.65	9 23 15.32	− 6.45	317 8 6.78	20.72	53.79	+81 45 38.9	37.1	− 2.9
20	ψ	Leonis	9	38 25.33	−0.01	**0.62**	9 38 25.97	2.18	24 24 27.20	41.25	26.42	14 27 57.4	57.5	+15.4
21	ν	Leonis	9	52 58.75	0.01	**0.58**	9 52 59.39	2.24	25 57 54.25	8.42	28.37	12 54 28.5	28.3	16.0
22	α	Leonis	9	3 10.80	0.01	**0.71**	10 3 11.44	2.26	26 25 52.40	6.48	28.97	12 26 29.9	29.7	16.1
23		Mayer 454	9	13 10.46	−0.01	0.65	10 13 11.10	2.30	25 45 54.42	8.82	28.15	13 6 28.8	28.2	16.0
24		Lal. 20109	9	17 18.40	0.00	+0.65	10 17 19.05	− 2.32	21 38 33.22	46.15	23.16	+17 13 55.0	55.8	+14.9
25		B. D.+14° 2244	9	21 32.86	−0.01	+0.65	10 21 33.50	− 2.32	24 45 8.60	23.35	26.92	+14 7 15.9	14.9	+15.7
26		W. B.₂ X. 408	9	23 12.79	0.01	0.65	10 23 13.43	2.33	22 37 21.40	34.98	24.33	16 15 5.7	5.8	15.2
27		Lal. 20406	9	27 6.31	0.01	0.65	10 27 6.95	2.34	25 27 17.15	30.40	27.79	13 25 6.6	6.9	15.9
28		W. B.₁ X. 583	9	35 28.03	0.01	0.65	10 35 28.67	2.36	26 17 16.02	29.78	28.85	12 35 6.7	6.5	16.1
29	k	Leonis	9	41 15.67	0.01	0.65	10 41 16.31	2.38	24 9 56.68	10.52	26.22	14 42 28.7	28.4	15.6
30	l	Leonis	9	44 8.14	−0.01	+**0.69**	10 44 8.78	− 2.39	27 48 47.85	0.18	30.83	+11 3 33.0	34.1	+16.5
31	χ	Leonis	9	59 59.57	−0.02	+**0.64**	11 0 0.20	− 2.43	31 0 36.80	49.25	35.16	+ 7 51 39.9	40.7	+17.0
32	θ	Leonis	9	9 7.71	0.01	**0.63**	11 9 8.35	2.43	22 54 46.70	1.58	24.75	15 57 40.5	38.8	15.4
33	β	Virginis	9	45 37.36	0.02	**0.66**	11 45 37.99	2.57	36 33 24.50	37.52	43.45	2 18 43.9	43.8	17.1
34	7	Virginis	9	54 57.69	0.02	**0.66**	11 54 58.32	2.55	34 40 24.22	37.08	40.55	+ 4 11 47.1	47.1	16.7
35	η	Virginis	9	14 55.53	0.03	**0.65**	12 14 56.15	2.62	38 59 40.48	52.72	47.50	− 0 7 36.1	35.5	16.4
36		Lal. 23218	9	19 42.01	−0.02	+0.65	12 19 42.64	− 2.61	36 56 48.22	0.38	44.14	+ 1 55 19.5	20.2	+16.2
37		W. B.₁ XII. 363	9	24 23.50	−0.03	+0.65	12 24 24.12	− 2.64	39 33 46.50	59.62	48.48	− 0 41 43.1	43.3	+16.2
38		W. B.₁ XII. 420	9	28 0.28	0.03	0.65	12 28 0.90	2.63	38 36 23.68	36.35	46.86	+ 0 15 41.4	41.5	16.0
39		B. D.+1° 2721	9	30 51.60	0.03	0.65	12 30 52.22	2.63	37 43 26.10	39.50	45.40	+ 1 8 40.4	39.9	15.8
40		B. D.−0° 2595	8	33 57.55	0.03	0.65	12 33 58.17	2.64	39 11 15.42	26.92	47.86	− 0 19 11.4	10.0	15.8
41		Piazzi XII, 170	9	39 11.53	0.03	0.65	12 39 12.15	2.67	41 10 36.40	48.78	51.34	− 2 18 35.8	35.4	15.7
42	δ	Virginis	9	50 41.97	−0.02	+**0.65**	12 50 42.60	− 2.60	34 56 38.15	51.38	41.04	+ 3 55 32.7	32.3	+15.1
43	48	Virginis	9	58 53.48	−0.03	+**0.65**	12 58 54.10	− 2.69	42 0 23.15	35.58	52.88	− 3 8 24.1	23.7	+14.8
44	θ	Virginis	9	4 54.63	0.04	**0.62**	13 4 55.24	− 2.72	43 53 6.05	19.60	56.47	− 5 1 10.6	11.3	+14.5
45	α	Ursæ Minoris S.P.	9	22 59.17	−2.46	+0.65	1 22 57.36	+27.27	307 41 19.22	30.98	75.74	+88 47 10.5	10.6	− 7.2

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
3 11 10	75.76	6.2	5.1
11 42	75.76	5.7	5.2
12 24	75.75	5.3	4.1
12 52	75.73	5.2	3.8
13 30	75.72	4.9	3.1
5 9 20	75.44	9.1	7.6
10 4	75.43	8.3	7.0
10 30	75.43	8.1	6.5
11 12	75.46	7.6	6.0
11 47	75.47	7.0	5.5
12 26	75.49	6.5	5.2
13 18	75.47	6.2	4.8

Bisections are made at II and V, except as noted below.

18, 45. Bisections at c_5, c_4, c_2, c_1.
19. Bisections at III, V.

Notes.

1–4. Seeing 3–4.
5–18, 19–45. Seeing 4–5.

Adopted Zenith Point Corrections.

		′	A. ″	B. ″
1– 2, from stars	9h 50m	+2	22.60	8.80
	10 58	2	21.67	9.57
3–17, from stars	11 59	2	22.03	10.00
	12 58	2	22.63	9.07
18, from nadir		2	21.48	9.36
19, 45, from nadir		2	20.50	8.51
20–32, from stars	9 51	2	21.70	7.9
	10 58	2	21.03	
33–44, from stars		+2	21.0	8.3

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
1	20.8	9.7
2	22.1	8.2
3	22.8	9.7
4	21.2	10.1
5	22.1	10.2
15	22.0	8.3
16	22.7	9.0
17	23.2	9.9
20	22.3	8.5
21	21.9	7.9
22	20.9	7.0
30	21.0	8.8
31	20.3	8.0
32	21.8	7.1
33	20.6	7.8
34	20.8	8.1
35	21.2	9.1
42	20.8	7.7
43	20.8	8.5
44	22.0	8.6

1902 APRIL 12. CLAMP EAST.

HAMMOND, OBSERVER. FREDERICK, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	1	H. Draconis	9	23 12.60	+1.13	+0.74	9 23 14.47	−5.58	317 8 6.95	18.78	52.75	+81 45 37.8	37.2	−4.0
2	ψ	Leonis	9	38 25.09	0.02	**0.74**	9 38 25.85	2.09	24 24 28.05	40.12	25.95	14 27 57.6	58.7	+14.9
3	ν	Leonis	9	52 58.51	0.02	**0.70**	9 52 59.27	2.15	25 57 55.35	8.25	27.91	12 54 28.6	28.4	15.5
4	α	Leonis	9	3 10.62	0.02	**0.78**	10 3 11.38	2.18	26 25 52.28	5.82	28.54	12 26 31.1	30.1	15.7
5		Mayer 454	9	13 10.29	0.02	0.74	10 13 11.05	2.22	25 45 55.78	8.22	27.73	13 6 28.5	28.4	15.6
6		Lal. 20139	9	18 12.01	+0.02	+0.74	10 18 12.77	−2.24	24 28 37.72	50.22	26.18	+14 23 48.1	47.9	+15.2
7		B. D. +14° 2244	9	21 32.63	+0.02	+0.74	10 21 33.39	−2.25	24 45 9.28	22.32	26.51	+14 7 16.3	15.4	+15.3
8		W. B.$_2$ X. 408	9	23 12.54	0.03	0.74	10 23 13.31	2.26	22 37 21.78	33.12	23.97	16 15 6.5	7.1	14.7
9		A. G. C. 4189	9	28 19.88	0.03	0.74	10 28 20.65	2.27	23 9 33.60	45.90	24.62	15 42 53.9	53.7	14.9
10		W. B.$_1$ X. 583	9	35 27.82	0.02	0.74	10 35 28.58	2.30	26 17 16.38	28.48	28.42	12 35 7.4	7.2	15.7
11	k	Leonis	9	41 15.47	0.02	0.74	10 41 16.23	2.31	24 9 57.38	9.02	25.83	14 42 29.1	29.2	15.2
12	l	Leonis	9	44 7.98	+0.01	**+0.77**	10 44 8.73	−2.33	27 48 48.42	59.18	30.36	+11 3 33.6	34.5	+16.1
13	χ	Leonis	9	59 59.41	0.00	**+0.72**	11 0 0.15	−2.37	31 0 37.38	48.70	34.62	+7 51 40.6	40.6	+16.7
14	θ	Leonis	9	9 7.54	+0.03	**0.71**	11 9 8.31	−2.38	22 54 47.72	59.80	24.37	15 57 40.5	39.7	+14.8
15	α	Ursæ Minoris S. P.	8	23 5.05	−7.74	[**+0.17**]	1 23	....	307 41 15.89	26.83	74.58	+88 47 8.3	8.4	−4.9

1902 APRIL 13. CLAMP EAST.

HAMMOND, OBSERVER. FREDERICK, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
16	1	H. Draconis	9	23 12.24	+1.44	+0.76	9 23 14.44	−5.45	317 8 5.35	17.90	53.86	+81 45 39.5	39.0	−4.1
17	ψ	Leonis	9	38 25.00	0.03	**0.80**	9 38 25.79	2.07	24 24 26.32	39.62	26.48	14 27 58.2	58.5	+14.9
18	ν	Leonis	9	52 58.49	0.02	**0.70**	9 52 59.27	2.13	25 57 53.45	7.10	28.46	12 54 29.1	28.9	15.5
19	α	Leonis	9	3 10.60	0.02	**0.78**	10 3 11.38	2.16	26 25 50.95	5.25	29.07	12 26 31.0	29.9	15.6
20		Mayer 454	9	13 10.26	0.03	0.76	10 13 11.05	2.21	25 45 53.92	7.10	28.24	13 6 28.9	28.8	15.6
21		Lal. 20139	9	18 11.98	+0.03	+0.76	10 18 12.77	−2.23	24 28 36.02	48.62	26.64	+14 23 48.4	48.8	+15.2
22		B. D. +14° 2244	9	21 32.62	+0.03	+0.76	10 21 33.41	−2.24	24 45 6.95	20.95	26.97	+14 7 17.1	16.1	+15.3
23		W. B.$_2$ X. 406	9	23 11.78	0.04	0.76	10 23 12.58	2.24	23 37 24.48	38.20	25.59	15 15 1.1	0.1	15.0
24		A. G. C. 4189	9	28 19.84	0.04	0.76	10 28 20.64	2.26	23 9 31.92	45.12	25.02	15 42 54.1	53.8	14.9
25		W. B.$_1$ X. 583	9	35 27.82	0.02	0.76	10 35 28.60	2.29	26 17 14.70	27.72	28.89	12 35 7.4	7.2	15.7
26	k	Leonis	9	41 15.41	0.03	0.76	10 41 16.20	2.30	24 9 54.98	7.92	26.26	14 42 29.8	29.5	15.1
27	l	Leonis	9	44 7.96	+0.02	**+0.77**	10 44 8.74	−2.32	27 48 47.00	57.65	30.86	+11 3 33.2	35.1	+16.0
28	χ	Leonis	9	59 59.37	0.00	**+0.75**	11 0 0.13	−2.36	31 0 35.80	47.20	35.20	+7 51 40.1	41.0	+16.7
29	θ	Leonis	9	9 7.48	+0.04	**0.75**	11 9 8.28	2.37	22 54 45.32	59.72	24.77	15 57 40.9	38.8	14.7
30	β	Virginis	9	45 37.18	−0.02	**0.82**	11 45 37.95	2.55	36 33 22.05	35.75	43.54	2 18 45.1	43.6	16.9
31	7	Virginis	9	54 57.56	0.01	**0.76**	11 54 58.33	2.53	34 40 22.65	34.68	40.64	+4 11 47.4	47.6	16.3
32	η	Virginis	9	14 55.43	0.03	**0.75**	12 14 56.16	2.62	38 59 39.12	50.92	47.59	−0 7 36.0	35.3	16.4
33		Lal. 23218	9	19 41.96	−0.02	+0.75	12 19 42.69	−2.61	36 56 46.25	58.65	44.21	+1 55 20.2	20.4	+16.0
34		W. B.$_1$ XII. 363	9	24 23.44	−0.03	+0.75	12 24 24.16	−2.64	39 33 45.38	58.48	48.56	−0 41 43.2	43.7	+16.1
35		W. B.$_1$ XII. 420	9	28 0.20	0.03	0.74	12 28 0.91	2.64	38 36 22.88	34.90	46.94	+0 15 40.9	41.5	15.9
36		B. D. +1° 2721	9	30 51.59	0.02	0.74	12 30 52.31	2.64	37 43 25.05	38.60	45.47	+1 8 40.2	39.3	15.7
37		B. D. −0° 2595	9	33 57.42	0.03	0.74	12 33 58.13	2.66	39 11 14.35	26.02	47.92	−0 19 11.6	10.5	15.7
38		B. D. −1° 2716	9	37 57.46	0.04	0.73	12 37 58.15	2.68	40 35 11.72	24.20	50.34	−1 43 11.4	11.1	15.7
39	δ	Virginis	9	50 41.91	−0.01	**+0.72**	12 50 42.62	−2.62	34 56 37.32	49.72	41.05	+3 55 32.3	32.9	+14.8
40	48	Virginis	9	58 53.45	−0.04	**+0.72**	12 58 54.12	−2.72	42 0 22.48	34.72	52.89	−3 8 24.6	23.9	+14.8
41	θ	Virginis	9	4 54.60	0.05	**0.69**	13 4 55.25	−2.75	43 53 5.20	18.70	56.48	−5 1 11.0	11.4	+14.6
42	α	Ursæ Minoris S. P.	9	23 5.82	−9.81	+0.68	1 22 56.69	+26.40	307 41 16.01	27.48	75.77	+88 47 8.2	8.0	−4.7

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
12 9 25	75.23	13.0	12.0
10 8	75.25	12.0	10.3
10 30	75.27	11.5	9.9
11 15	75.27	10.6	9.4
13 18	75.32	9.6	8.4
13 9 25	75.75	9.3	8.2
10 8	75.77	8.5	7.2
10 30	75.77	8.2	7.4
11 12	75.78	7.8	6.9
11 48	75.76	7.1	6.0
12 26	75.79	6.6	5.8
12 52	.....	...	6.0
13 28	75.75	6.3	5.7

Bisections are made at II and V, except as noted below.

1, 16, 23.	Bisections at III, V.
8.	Bisections at IV, VI.
15, 42.	Bisections at c_5, c_4, c_2, c_1.

Notes.

1.	Division read on Circle A doubtful.
1–15, 16–42.	Seeing 4.
16, 23.	First bisection doubtful.

Adopted Zenith Point Corrections.

		′	A. ″	B. ″
1, 15, from nadir		+2	20.42	9.29
2–14, from stars	9h 51m	2	21.07	8.47
	10 58	2	20.33	9.13
16, 42, from nadir		2	21.41	9.44
17–29, from stars	9 51 10 58	2	21.8	8.60 9.57
30–41, from stars	11 59 12 58	+2	22.2	10.03 9.33

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
2	21.4	9.6
3	20.8	8.1
4	21.0	7.7
12	20.5	9.9
13	20.0	8.8
14	20.5	8.7
17	22.6	9.5
18	22.1	8.7
19	21.7	7.6
27	21.3	10.8
28	21.0	9.7
29	22.4	8.2
30	22.8	9.3
31	21.9	10.0
32	22.5	10.8
39	21.3	9.1
40	21.5	9.3
41	22.9	9.6

1902 APRIL 15 CLAMP EAST.

HAMMOND, OBSERVER. FREDERICK, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	β	Virginis	9	45 37.14	−0.01	+**0.84**	11 45 38.02	− 2.54	36 33 23.02	35.18	43.54	+ 2 18 45.1	45.0	+16.9
2	7	Virginis	9	54 57.44	0.00	**0.87**	11 54 58.33	2.53	34 40 23.72	35.48	40.64	+ 4 11 47.3	47.6	16.2
3	η	Virginis	9	14 55.21	−0.01	**0.94**	12 14 56.07	2.61	38 59 40.98	52.40	47.63	− 0 7 36.9	36.3	16.3
4		Lal. 23218	9	19 41.88	0.01	0.86	12 19 42.73	2.61	36 56 48.15	59.98	44.26	+ 1 55 19.3	19.5	16.0
5		W. B.₁ XII. 363	9	24 23.29	0.02	0.86	12 24 24.13	2.64	39 33 46.50	58.52	48.62	− 0 41 43.4	43.4	16.2
6		W. B.₁ XII. 420	9	28 0.10	−0.01	+0.86	12 28 0.95	− 2.64	38 36 23.95	36.20	47.01	+ 0 15 40.7	40.6	+15.9
7		B. D. +1° 2721	9	30 51.47	−0.01	+0.85	12 30 52.31	− 2.64	37 43 25.70	38.95	45.55	+ 1 8 40.4	39.3	+15.7
8		B. D. −0° 2595	9	33 57.28	0.01	0.85	12 33 58.12	2.66	39 11 14.48	25.62	48.02	− 0 19 10.8	9.9	15.8
9		B. D. −1° 2716	9	37 57.31	−0.02	0.85	12 37 58.14	2.68	40 35 12.32	25.08	50.47	− 1 43 11.1	11.8	15.7
10	δ	Virginis	9	50 41.79	0.00	**0.84**	12 50 42.62	2.63	34 56 37.55	49.38	41.21	+ 3 55 32.9	33.1	14.7
11	48	Virginis	9	58 53.35	−0.02	**0.80**	12 58 54.16	2.72	42 0 22.32	34.58	53.11	− 3 8 23.7	23.9	14.8
12	θ	Virginis	9	4 54.43	0.02	**0.84**	13 4 55.23	− 2.76	43 53 5.65	18.65	56.74	− 5 1 10.7	11.6	+14.7
13	α	Ursæ Minoris S. P.	7	23 3.70	−5.99	+0.80	1 22 58.51	+26.20	307 41 16.92	28.22	76.17	+88 47 7.9	8.4	− 4 1

1902 APRIL 17. CLAMP WEST.

HAMMOND, OBSERVER. FREDERICK, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
14	β	Virginis	9	45 36.98	+0.04	+**0.94**	11 45 37.98	− 2.53	323 21 46.50	58.08	42.66	+ 2 18 44.4	44.3	+16.8
15	7	Virginis	9	54 57.33	0.04	**0.93**	11 54 58.32	2.52	325 14 46.58	58.80	39.83	+ 4 11 47.3	47.8	16.2
16	η	Virginis	9	14 55.14	0.04	**0.96**	12 14 56.11	2.61	320 55 29.95	41.48	46.66	− 0 7 36.1	36.3	16.3
17		W. B.₁ XII. 225	9	16 38.54	0.04	0.92	12 16 39.50	2.61	321 25 59.82	11.70	45.81	+ 0 22 54.6	54.8	16.2
18		Lal. 23218	9	19 41.75	0.04	0.92	12 19 42.71	2.60	322 58 22.90	35.40	43.35	1 55 20.1	20.9	15.9
19		Lal. 23271	9	21 46.69	+0.04	+0.92	12 21 47.65	− 2.62	321 24 23.08	33.78	45.88	+ 0 21 17.8	16.8	+16.1
20		Lal. 23399	9	26 15.82	+0.04	+0.91	12 26 16.77	− 2.62	322 54 54.98	6.82	43.46	+ 1 51 52.1	52.2	+15.7
21		Mayer 531	9	29 23.55	0.04	0.91	12 29 24.50	2.65	320 10 48.68	59.35	47.93	− 0 52 18.7	19.7	15.9
22		Lal. 23581	9	32 5.69	0.04	0.91	12 32 6.64	2.67	319 16 11.35	21.82	49.51	− 1 46 57.6	58.8	16.0
23		Lal. 23700	9	37 4.61	0.04	0.90	12 37 5.55	2.65	322 4 48.55	0.65	44.81	+ 1 1 44.3	44.7	15.4
24		Piazzi XII, 170	9	39 11.18	0.04	0.90	12 39 12.12	2.69	318 44 35.08	45.28	50.45	− 2 18 34.8	36.3	15.7
25		Lal. 23859	9	43 7.51	+0.04	+0.90	12 43 8.45	− 2.67	321 13 23.55	34.82	46.22	+ 0 10 17.9	17.5	+15.3
26		W. B.₁ XII. 729	9	45 23.88	+0.04	+0.89	12 45 24.81	− 2.69	319 45 26.22	36.78	48.69	− 1 17 41.9	43.0	+15.4
27	δ	Virginis	9	50 41.63	0.04	**0.96**	12 50 42.56	2.63	324 58 34.35	44.92	40.34	+ 3 55 34.5	33.4	14.6
28	48	Virginis	9	58 53.22	0.03	**0.88**	12 58 54.13	2.72	317 54 47.10	59.50	51.98	− 3 8 24.3	23.6	14.8
29	θ	Virginis	9	4 54.42	+0.03	**0.80**	13 4 55.32	− 2.76	316 2 3.18	14.58	55.51	− 5 1 11.7	12.0	+14.7
30	α	Ursæ Minoris S. P.	9	23 1.62	−5.33	+0.85	1 22 57.14	+26.08	52 13 56.32	9.02	74.47	+88 47 8.0	6.9	− 3.5

1902 APRIL 20. CLAMP WEST.

HAMMOND, OBSERVER. FREDERICK, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
31	1	H. Draconis	9	23 11.31	+1.26	+0.66	9 23 13.23	− 4.52	42 46 5.95	19.98	52.78	+81 45 40.2	43.2	− 4.9
32	ψ	Leonis	9	38 25.01	0.08	**0.64**	9 38 25.75	1.97	335 30 40.78	53.25	25.94	14 27 56.6	57.6	+14.4
33	ν	Leonis	9	52 58.47	0.07	**0.58**	9 52 59.20	2.04	333 57 15.50	27.80	27.87	12 54 29.4	30.2	15.1
34	α	Leonis	9	3 10.52	0.07	**0.72**	10 3 11.25	2.07	333 29 18.25	29.52	28.48	12 26 31.6	31.3	15.2
35	37	Leonis	9	11 26.57	0.08	0.66	10 11 27.31	2.12	335 15 30.38	42.98	26.32	14 12 45.8	46.9	14.7
36	42	Leonis	9	16 35.61	+0.08	+0.66	10 16 36.35	− 2.14	336 30 38.60	.....	24.83	+15 27 55.5	....	+14.3
37		Lal. 20139	7	18 11.98	+0.08	+0.66	10 18 12.72	− 2.14	335 26 32.45	45.48	26.12	+14 23 48.1	49.6	+14.6
38		B. D. +14° 2244	9	21 32.59	0.08	0.66	10 21 33.33	2.16	335 10 0.85	12.88	26.45	14 7 16.2	16.7	14.7
39		W. B.₂ X. 408	9	23 12.49	0.08	0.66	10 23 13.23	2.16	337 17 48.65	0.55	23.92	16 15 6.5	6.9	14.0
40	46	Leonis	9	26 59.42	0.08	0.66	10 27 0.16	2.18	335 40 53.55	5.52	25.85	14 38 9.5	9.9	14.5
41		Lal. 20522	9	31 50.98	0.08	0.66	10 31 51.72	2.20	334 25 0.48	13.20	27.40	13 22 14.9	16.0	14.9
42		W. B.₂ X. 635	9	33 57.90	+0.08	+0.66	10 33 58.64	− 2.21	336 17 1.90	12.68	25.14	+15 14 18.5	17.8	+14.4

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
15 11 47	75.95	8.0	6.6
12 26	75.93	7.5	5.9
13 30	75.94	6.3	4.8
17 11 48	75.39	11.4	10.1
12 28	.....	....	9.5
12 34	75.37	10.6	9.4
13 10	.....	....	9.0
20 9 24	75.81	15.2	14.0
10 5	75.82	14.4	13.0

Bisections are made at II and V, except as noted below.

6. Bisections at II, VI.
13, 30. Bisections at c_5, c_4, c_2 c_1.
19, 31. Bisections at III, V.
36. Bisection at II.

Notes.

1–30. Seeing 4.
29. Circle A read on 0′ division.
31–42. Seeing 4–5.
38. Circle A read on 8′ division.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1–12, from stars	+2	21.2	9.3
13, from nadir	2	20.57	9.42
14–29, from stars	2	25.7	13.8
30, from nadir	2	25.80	14.51
31, from nadir	2	27.06	15.88
32–42, from stars	+2	27.0	15.2

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
1	21.8	9.8
2	20.7	9.1
3	20.5	9.2
10	20.8	9.1
11	21.4	9.3
12	22.3	9.5
14	25.9	14.1
15	26.2	13.8
16	25.6	13.9
27	24.6	13.8
28	26.1	13.5
29	25.6	14.0
32	28.3	15.5
33	26.8	14.2
34	26.9	15.4

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	B. D.+14° 2285	9	36 54.77	+0.08	+0.66	10 36 55.51	− 2.22	335 1 31.48	43.18	26.66	+13 58 46.6	46.8	+14.7
2	Lal. 20748	9	41 9.76	0.08	0.66	10 41 10.50	2.23	334 18 22.75	35.10	27.55	13 15 37.0	37.8	14.9
3	*l* Leonis	9	44 7.91	0.07	**0.70**	10 44 8.64	2.25	332 6 23.70	35.48	30.30	11 3 35.2	35.4	15.6
4	χ Leonis	9	59 59.34	0.06	**0.67**	11 0 0.06	2.31	328 54 34.38	44.75	34.55	7 51 41.6	40.5	16.3
5	θ Leonis	9	9 7.47	+0.08	+**0.66**	11 9 8.21	− 2.31	337 0 22.80	34.15	24.32	+15 57 40.2	40.1	+14.1

1902 APRIL 21. CLAMP WEST.

HAMMOND, OBSERVER. FREDERICK, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
6	ι H. Draconis	9	23 12.08	+0.79	+0.52	9 23 13.39	− 4.38	42 47 6.78	20.12	51.76	+81 45 40.2	43.3	− 5.0
7	ψ Leonis	9	38 25.16	0.05	**0.51**	9 38 25.73	1.96	335 30 39.65	51.60	25.43	14 27 56.4	57.4	+14.3
8	ν Leonis	9	52 58.63	0.05	**0.43**	9 52 59.20	2.03	333 57 14.92	26.52	27.31	12 54 29.8	30.5	15.0
9	α Leonis	9	3 10.69	0.05	**0.64**	10 3 11.26	2.06	333 29 17.32	28.28	27.89	12 26 31.6	31.6	15.1
10	37 Leonis	9	11 26.72	0.05	0.52	10 11 27.29	2.10	335 15 29.82	42.00	25.78	14 12 46.2	47.5	14.6
11	42 Leonis	9	16 35.77	+0.05	+0.52	10 16 36.34	− 2.12	336 30 38.58	49.88	24.32	+15 27 56.4	56.8	+14.2
12	Lal. 20139	9	18 12.18	+0.05	+0.52	10 18 12.75	− 2.13	335 26 31.50	44.08	25.58	+14 23 48.1	49.8	+14.5
13	B. D.+14° 2244	9	21 32.79	0.05	0.52	10 21 33.36	2.14	335 10 0.18	11.18	25.91	14 7 16.4	16.5	14.6
14	W. B.$_2$ X. 408	9	23 12.68	0.05	0.52	10 23 13.25	2.15	337 17 47.75	59.05	23.42	16 15 6.5	6.9	13.9
15	46 Leonis	9	26 59.59	0.05	0.52	10 27 0.16	2.16	335 40 52.88	4.22	25.31	14 38 9.8	10.2	14.4
16	Lal. 20522	9	31 51.17	0.05	0.52	10 31 51.74	2.19	334 24 59.52	11.50	26.82	13 22 14.9	15.9	14.8
17	W. B.$_2$ X. 635	9	33 58.12	+0.05	+0.52	10 33 58.69	− 2.19	336 17 1.08	11.55	24.61	+15 14 18.8	18.2	+14.2
18	B. D.+14° 2285	9	36 54.97	+0.05	+0.52	10 36 55.54	− 2.20	335 1 30.72	41.50	26.09	+13 58 46.8	46.7	+14.6
19	Lal. 20748	9	41 9.94	0.05	0.52	10 41 10.51	2.22	334 18 22.40	33.02	26.95	13 15 37.6	37.3	14.8
20	*l* Leonis	9	44 8.10	0.04	**0.53**	10 44 8.66	2.24	332 6 22.45	33.55	29.65	11 3 35.0	35.2	15.5
21	χ Leonis	9	59 59.52	0.04	**0.50**	11 0 0.08	2.30	328 54 33.42	42.38	33.78	7 51 41.9	39.9	16.2
22	θ Leonis	9	9 7.63	+0.05	+**0.52**	11 9 8.20	− 2.30	337 0 22.10	33.08	23.77	+15 57 40.5	40.6	+14.0

1902 APRIL 22. CLAMP WEST.

HAMMOND, OBSERVER. FREDERICK, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
23	ι H. Draconis	8	23 12.44	+0.56	+0.14	9 23 13.14	− 4.25	42 47 7.85	19.40	50.49	+81 45 40.3	42.5	− 5.1
24	ψ Leonis	9	38 25.50	0.04	**0.17**	9 38 25.68	1.95	335 30 38.88	49.08	24.80	14 27 56.9	57.3	+14.2
25	ν Leonis	9	52 58.98	0.04	**0.08**	9 52 59.16	2.02	333 57 13.70	23.82	26.62	12 54 29.9	30.2	14.9
26	α Leonis	9	3 11.02	0.04	**0.22**	10 3 11.20	2.04	333 29 16.22	26.10	27.18	12 26 31.8	32.0	15.1
27	37 Leonis	9	11 27.08	0.04	0.14	10 11 27.26	2.09	335 15 29.15	39.42	25.12	14 12 46.8	47.4	14.5
28	42 Leonis	9	16 36.14	+0.04	+0.14	10 16 36.32	− 2.11	336 30 36.72	47.88	23.72	+15 27 55.8	57.2	+14.1
29	Lal. 20139	9	18 12.49	+0.04	+0.14	10 18 12.67	− 2.12	335 26 31.12	41.60	24.95	+14 23 49.0	49.7	+14.4
30	B. D.+14° 2244	9	21 33.16	0.04	0.14	10 21 33.34	2.13	335 9 59.28	9.48	25.28	14 7 16.8	17.2	14.5
31	W. B.$_2$ X. 408	9	23 13.09	0.04	0.14	10 23 13.27	2.14	337 17 47.58	56.65	22.85	16 15 7.5	6.8	13.9
32	Lal. 20406	9	27 6.63	0.04	0.14	10 27 6.81	2.15	334 27 51.82	2.02	26.12	13 25 8.5	9.0	14.7
33	Lal. 20748	7	41 10.30	0.04	0.14	10 41 10.48	2.21	334 18	30.68	26.32	13 15	37.4	14.7
34	*l* Leonis	9	44 8.50	+0.03	+**0.13**	10 44 8.67	− 2.23	332 6 21.20	31.60	28.95	+11 3 35.0	35.7	+15.5
35	χ Leonis	9	59 59.90	+0.03	+**0.12**	11 0 0.07	− 2.29	328 54 32.05	40.30	33.01	+ 7 51 41.9	40.4	+16.1
36	θ Leonis	9	9 8.02	+0.04	+**0.14**	11 9 8.20	− 2.30	337 0 21.12	30.32	23.23	+15 57 40.7	40.1	+13.9

1902 APRIL 23. CLAMP WEST.

HAMMOND, OBSERVER. FREDERICK, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
37	ι H. Draconis	7	23 12.42	+1.16	−0.23	9 23 13.35	− 4.11	42 47 6.48	25.90	50.32	+81 45 39.9	42.0	− 5.2
38	ψ Leonis	9	38 25.87	0.05	**0.23**	9 38 25.69	1.93	335 30 37.22	55.85	24.75	14 27 57.1	57.2	14.2
39	ν Leonis	9	52 59.32	0.04	**0.28**	9 52 59.13	2.00	333 57 12.85	31.18	26.61	12 54 30.5	30.6	14.9
40	α Leonis	9	3 11.38	0.04	**0.15**	10 3 11.19	2.03	333 29 14.68	32.50	27.20	12 26 31.6	31.4	15.0
41	37 Leonis	9	11 27.44	0.05	0.23	10 11 27.26	2.08	335 15 27.75	46.75	25.15	14 12 46.5	47.6	14.4
42	42 Leonis	9	16 36.46	+0.05	−0.23	10 16 36.28	− 2.10	336 30 35.52	54.22	23.73	+15 27 55.6	56.5	+14.1

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
20 10 43	75.83	13.6	12.3
11 14	75.82	13.1	11.9
21 9 25	75.72	20.2	19.0
10 6	75.70	19.4	18.3
10 30	75.71	19.1	17.9
10 43	.....	....	17.8
11 7	75.68	18.5	17.7
22 9 26	75.62	27.0	25.6
10 6	75.64	26.4	25.3
10 30	75.66	25.7	24.3
11 14	75.66	25.2	24.1
23 9 35	75.57	26.7	26.0
10 13	75.62	25.6	24.7

Bisections are made at II and V, except as noted below.

6, 17, 23, 37. Bisections at III, V.
33. Bisection at V.

Notes.

1–5. Seeing 4–5.
6–22. Seeing 3.
13. Circle A read on 8′ division.
23–42. Seeing 2–3.
29, 32. Faint; poor.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1– 5, from stars	+2	27.0	15.2
6, from nadir	2	27.29	16.92
7–22, from stars	2	27.4	16.2
23, from nadir	2	27.53	18.08
24–36, from stars	2	28.0	18.0
37, from nadir	2	28.69	11.23
38–42, from stars . 9h 51m	2	29.57	11.0
10 58	+2	28.07	

Z.P.Corr. from Stars.

No.	A.	B.
	″	″
3	25.9	13.9
4	26.7	16.0
5	27.7	16.0
7	29.0	16.8
8	26.9	15.0
9	27.4	16.2
20	26.6	15.2
21	26.9	17.7
22	27.9	16.6
24	29.2	18.8
25	27.5	17.2
26	27.8	17.6
34	27.2	16.5
35	27.6	19.1
36	28.4	19.0
38	30.9	11.9
39	28.4	9.8
40	29.4	11.3

NO.		NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T - m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		Lal. 20139	9	18 12.83	+0.05	−0.23	10 18 12.65	−2.10	335 26 29.22	48.48	24.96	+14 23 48.0	49.6	+14.4
2		B. D. + 14° 2244	9	21 33.46	0.05	0.23	10 21 33.28	2.12	335 9 58.22	16.40	25.28	14 7 16.6	17.2	14.5
3		W. B.$_2$ X. 408	9	23 13.39	0.05	0.23	10 23 13.21	2.12	337 17 45.92	3.55	22.86	16 15 6.6	6.7	13.8
4		A.G.C. 4189	9	28 20.70	0.05	0.23	10 28 20.52	2.14	336 45 33.32	51.38	23.47	15 42 53.3	54.0	14.0
5		Lal. 20522	9	31 51.91	0.04	0.23	10 31 51.72	2.16	334 24 57.72	15.68	26.19	13 22 15.0	15.5	14.7
6		W. B.$_2$ X. 635	9	33 58.78	+0.05	−0.23	10 33 58.60	−2.17	336 16 58.30	16.28	24.03	+15 14 17.7	18.3	+14.1
7		B. D.+14° 2285	9	36 55.65	+0.04	−0.23	10 36 55.46	−2.18	335 1 28.72	46.55	25.49	+13 58 46.5	47.1	+14.5
8		Lal. 20748	9	41 10.66	0.04	0.23	10 41 10.47	2.20	334 18 19.65	37.92	26.33	13 15 36.5	37.6	14.7
9	l	Leonis	9	44 8.83	0.04	**0.22**	10 44 8.64	2.22	332 6 21.32	39.05	28.97	11 3 35.6	36.1	15.4
10	χ	Leonis	9	0 0.24	0.03	**0.23**	11 0 0.04	2.28	328 54 31.55	47.42	33.05	7 51 41.3	40.4	16.1
11	θ	Leonis	9	9 8.39	0.05	**0.25**	11 9 8.21	2.29	337 0 20.80	37.88	23.27	15 57 40.1	40.7	13.8
12	β	Virginis	9	45 38.19	+0.02	**−0.28**	11 45 37.97	−2.50	323 21 42.00	0.35	40.98	+ 2 18 44.1	44.7	+16.6
13	7	Virginis	9	54 58.51	+0.02	**−0.26**	11 54 58.28	−2.49	325 14 43.10	1.20	38.30	+ 4 11 47.8	48.2	+15.9
14	η	Virginis	9	14 56.34	0.01	**0.23**	12 14 56.07	2.59	320 55 27.18	44.02	45.00	− 0 7 34.8	35.7	16.1
15		W. B.$_1$ XII. 225	9	16 39.73	0.01	0.29	12 16 39.45	2.60	321 25 57.05	14.68	44.21	+ 0 22 55.9	55.7	15.9
16		Lal. 23218	9	19 42.89	0.01	0.29	12 19 42.61	2.59	322 58 18.58	37.75	41.85	1 55 19.8	21.2	15.5
17		Lal. 23271	9	21 47.89	0.01	0.30	12 21 47.60	2.61	321 24 19.52	36.78	44.29	0 21 18.3	17.8	15.7
18		Lal. 23399	9	26 17.00	+0.01	−0.30	12 26 16.71	2.61	322 54 50.82	.....	41.98	+ 1 51 51.9	....	+15.3
19		Mayer 531	9	29 24.79	+0.01	−0.31	12 29 24.49	−2.64	320 10 44.82	1.65	46.31	− 0 52 18.4	19.4	+15.6
20		Lal. 23581	9	32 6.89	0.00	0.32	12 32 6.57	2.66	319 16 6.98	24.32	47.85	− 1 46 57.8	58.3	15.7
21		Lal. 23700	9	37 5.83	+0.01	0.32	12 37 5.52	2.64	322 4 44.32	3.38	43.33	+ 1 1 44.0	45.3	15.1
22		Piazzi XII, 170	9	39 12.44	0.00	0.33	12 39 12.11	2.68	318 44 30.48	46.60	48.80	− 2 18 35.2	36.9	15.5
23		Lal. 23859	9	43 8.74	+0.01	0.33	12 43 8.42	2.67	321 13 19.22	35.92	44.71	+ 0 10 17.6	16.5	15.0
24		W. B.$_1$ XII. 729	9	45 25.18	0.00	0.34	12 45 24.84	−2.69	319 45 [20.35]	38.52	47.11	− 1 17 [43.7]	43.3	+15.1
25	δ	Virginis	9	50 42.94	+0.02	**−0.33**	12 50 42.61	−2.63	324 58 29.82	47.85	39.06	+ 3 55 33.8	34.0	+14.3
26	48	Virginis	9	58 54.52	0.00	**0.38**	12 58 54.16	2.73	317 54 43.48	0.92	50.37	− 3 8 23.8	24.2	14.8
27	θ	Virginis	9	4 55.64	−0.01	**0.37**	13 4 55.26	−2.77	316 1 58.88	16.42	53.84	− 5 1 11.9	12.1	+14.7
28	α	Ursæ Minoris S. P.	9	23 8.33	−9.48	−0.40	1 22 58.45	+24.65	52 13 56.60	15.64	72.38	+88 47 6.9	5.6	−1.5
		HAMMOND, OBSERVER.					1902 APRIL 24.		• CLAMP WEST.			FREDERICK, ASSISTANT.		
29	1	H. Draconis	9	23 11.69	+1.54	−0.53	9 23 12.70	−3.97	42 47 5.22	24.85	52.41	+81 45 40.2	41.9	−5.3
30	ψ	Leonis	9	38 26.13	0.07	**0.52**	9 38 25.67	1.92	335 30 39.60	58.38	25.74	14 27 57.5	57.3	+14.1
31	ν	Leonis	9	52 59.66	0.06	**0.65**	9 52 59.19	1.99	333 57 13.70	32.35	27.62	12 54 29.6	29.4	14.8
32	α	Leonis	9	3 11.64	0.06	**0.44**	10 3 11.17	2.02	333 29 17.22	35.60	28.21	12 26 32.3	32.0	15.0
33		Mayer 454	9	13 11.30	0.06	0.53	10 13 10.83	2.07	334 9 12.70	32.62	27.40	13 6 28.5	29.9	14.7
34		Lal. 20109	9	17 19.27	+0.08	−0.53	10 17 18.82	−2.09	338 16 36.58	54.85	22.54	+17 13 57.1	57.0	+13.4
35		Lal. 20181	9	19 47.92	+0.06	−0.53	10 19 47.45	−2.10	334 16 7.28	26.60	27.28	+13 13 23.1	24.0	+14.7
36		W. B.$_2$ X. 406	9	23 12.93	0.07	0.53	10 23 12.47	2.11	336 17 42.40	0.85	24.85	15 15 0.5	0.6	14.0
37		A. G. C. 4189	9	28 20.98	0.07	0.53	10 28 20.52	2.13	336 45 34.75	53.92	24.32	15 42 53.4	54.2	13.9
38		W. B.$_1$ X. 583	9	35 28.98	0.06	0.53	10 35 28.51	2.16	333 37 53.30	11.92	28.09	12 35 8.1	8.5	14.8
39	k	Leonis	9	41 16.59	0.07	0.53	10 41 16.13	2.18	335 45 11.65	31.38	25.52	14 42 28.9	30.5	14.2
40	l	Leonis	9	44 9 12	+0.05	**−0.53**	10 44 8.64	−2.21	332 6 22.50	41.72	30.01	+11 3 35.3	36.4	+15.3
41	χ	Leonis	9	0 0.51	+0.04	**−0.52**	11 0 0.02	−2.27	328 54 33.60	50.40	34.26	+ 7 51 41.9	40.8	+16.0
42	θ	Leonis	9	9 8.64	0.07	**0.53**	11 9 8.18	2.28	337 0 21.90	40.38	24.13	15 57 40.1	40.9	13.7
43	β	Virginis	9	45 38.46	0.02	**0.56**	11 45 37.93	2.49	323 21 44.82	3.48	42.26	2 18 44.5	44.7	16.6
44	7	Virginis	8	54 58.76	0.03	**0.53**	11 54 58.24	2.48	325 14 45.22	4.28	39.45	+ 4 11 47.7	48.3	15.9
45	η	Virginis	9	14 56.65	0.01	**0.54**	12 14 56.11	2.59	320 55 29.20	46.18	46.24	− 0 7 35.1	36.6	16.1
46		W. B.$_1$ XII. 225	9	16 40.00	+0.01	−0.55	12 16 39.46	−2.59	321 25 59.00	16.68	45.42	+ 0 22 55.5	54.7	+15.9
47		Lal. 23218	9	19 43.22	+0.02	−0.55	12 19 42.69	−2.58	322 58 20.80	39.55	42.97	+ 1 55 19.8	20.0	+15.5
48		Lal. 23271	8	21 48.14	0.01	0.55	12 21 47.60	2.61	321 24 21.40	39.05	45.48	0 21 17.9	17.0	15.7
49		Lal. 23399	9	26 17.32	0.02	0.55	12 26 16.79	2.60	322 54 52.92	12.70	43.08	+ 1 51 51.8	53.1	15.3
50		Mayer 531	9	29 25.09	+0.01	0.55	12 29 24.55	2.64	320 10 47.08	4.35	47.52	− 0 52 18.5	19.7	15.6
51		Lal. 23581	9	32 7.22	0.00	0.55	12 32 6.67	2.66	319 16 9.38	26.52	49.09	− 1 46 57.7	59.1	15.6
52		Lal. 23700	9	37 6.09	+0.02	−0.55	12 37 5.56	−2.64	322 4 47.45	6.00	44.43	+ 1 1 45.0	45.0	+15.0

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
23 10 40	75.62	25.0	24.0
11 15	75.66	24.2	23.4
11 48	75.69	23.4	22.2
12 25	75.74	22.0	20.3
12 48	75.79	21.2	19.6
13 28	75.83	20.0	18.2
24 9 24	76.15	18.2	17.1
10 6	76.21	17.4	17.0
10 40	76.25	17.0	16.6
11 14	76.25	16.2	15.5
11 48	76.26	15.5	15.9
12 28	76.29	15.2	15.1

Bisections are made at II and V, except as noted below.

12. Bisections at II, VI.
18. Bisection at II.
28. Bisections at c_5, c_4, c_2, c_1.
29. Bisections at III, V.

Notes.

1–28. Seeing 2–3.
4. Faint.
29–52. Seeing 5.

Adopted Zenith Point Corrections.

		A.	B.
		′ ″	″
1–11, from stars	9h 51m	+2 29.57	11.0
	10 58	28.07	
12–27, from stars		2 28.2	10.2
28, from nadir		2 28.69	11.23
29, from nadir		2 28.23	10.09
30–42, from stars	9 51	2 28.70	9.6
	10 58	2 27.77	
43–52, from stars		+2 27.1	8.4

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
9	27.1	9.2
10	28.2	12.1
11	28.9	11.5
12	28.9	10.3
13	28.5	10.1
14	27.0	9.9
25	28.1	9.9
26	28.1	10.5
27	28.3	10.5
30	29.6	10.5
31	28.0	9.7
32	27.9	9.3
40	27.1	7.6
41	27.4	10.4
42	28.8	10.0
43	27.4	8.5
44	27.5	8.2
45	26.2	9.0

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		Piazzi XII, 170...	9	39 12.66	0.00	0.55	12 39 12.11	- 2.68	318 44 33.25	49.80	50.04	- 2 18 34.8	36.8	+15.4
2		Lal. 23859.......	9	43 8.98	+ 0.01	0.55	12 43 8.44	2.66	321 13 21.28	39.15	45.84	+ 0 10 17.4	16.8	14.9
3		W. B.$_1$ XII. 729..	9	45 25.43	0.01	0.55	12 45 24.89	2.69	319 45 24.00	41.95	48.29	- 1 17 42.3	42.9	15.0
4	δ	Virginis.........	9	50 43.18	+ 0.02	**0.57**	12 50 42.65	2.63	324 58 32.38	50.58	40.02	+ 3 55 34.3	34.0	14.2
5	48	Virginis.........	9	58 54.72	0.00	**0.58**	12 58 54.17	2.73	317 54 45.45	4.65	51.57	- 3 8 24.1	23.4	14.7
6	ϑ	Virginis.........	9	4 55.81	- 0.01	**0.54**	13 4 55.25	- 2.77	316 2 0.95	19.58	55.09	- 5 1 12.1	12.0	+14.6
7	α	Ursæ Minoris S. P.	9	23 11.68	-10.51	-0.55	1 23 0.62	+24.22	52 13 56.56	16.40	73.96	+88 47 5.8	4.4	- 1.1

1902 APRIL 27. CLAMP WEST.

HAMMOND, OBSERVER. FREDERICK, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
8	1	H. Draconis......	9	23 12.36	+ 1.65	-1.55	9 23 12.46	- 3.55	42 47 4.98	23.90	52.47	+81 45 40.5	41.7	5.5
9	ψ	Leonis..........	9	38 27.12	0.07	**1.55**	9 38 25.62	1.88	335 30 39.45	58.18	25.79	14 27 57.3	57.8	+14.0
10	ν	Leonis..........	9	53 0.63	0.06	**1.66**	9 52 59.11	1.95	333 57 14.40	32.28	27.70	12 54 30.2	30.0	14.6
11	α	Leonis..........	9	3 12.69	0.06	**1.53**	10 3 11.16	1.98	333 29 17.32	34.90	28.30	12 26 32.4	32.0	14.8
12		Mayer 454.......	9	13 12.39	0.06	1.60	10 13 10.85	2.03	334 9 13.55	31.98	27.49	13 6 29.3	29.9	14.6
13		Lal. 20109.......	9	17 20.32	+ 0.08	-1.61	10 17 18.79	- 2.05	338 16 35.80	53.80	22.60	+17 13 56.4	56.6	+13.2
14		Lal. 20181.......	9	19 48.97	+ 0.06	-1.61	10 19 47.42	- 2.06	334 16 6.38	24.92	27.35	+13 13 22.2	23.0	+14.5
15		W. B.$_2$ X. 406....	9	23 13.94	0.07	1.62	10 23 12.39	2.07	336 17 41.92	0.22	24.92	15 15 0.2	0.8	13.9
16		Lal. 20406.......	9	27 8.29	0.06	1.62	10 27 6.73	2.09	334 27 52.12	10.65	27.11	13 25 8.1	9.0	14.5
17		W. B.$_1$ X. 583....	9	35 29.97	0.06	1.63	10 35 28.40	2.13	333 37 53.20	11.52	28.14	12 35 8.0	8.8	14.7
18	k	Leonis..........	9	41 17.63	0.07	1.64	10 41 16.06	2.15	335 45 11.30	30.30	25.58	14 42 28.7	30.2	14.0
19	l	Leonis..........	9	44 10.17	+ 0.06	**-1.63**	10 44 8.59	- 2.17	332 6 22.32	40.28	30.07	+11 3 35.2	35.7	+15.1
20	χ	Leonis..........	9	0 1.60	+ 0.04	**-1.65**	10 59 59.98	- 2.23	328 54 33.80	49.75	34.37	+ 7 51 42.2	40.8	+15.8
21	ϑ	Leonis..........	9	9 9.76	0.07	**1.68**	11 9 8.16	2.25	337 0 22.28	40.05	24.23	15 57 40.7	41.3	13.4
22	β	Virginis.........	9	45 39.48	0.02	**1.60**	11 45 37.88	2.47	323 21 44.70	2.42	42.37	2 18 44.4	44.7	16.4
23	7	Virginis.........	9	54 59.86	0.03	**1.64**	11 54 58.27	2.47	325 14 45.58	3.60	39.55	+ 4 11 48.1	48.7	15.7
24	η	Virginis.........	9	14 57.72	0.01	**1.63**	12 14 56.11	2.57	320 55 29.28	46.28	46.36	- 0 7 35.0	35.4	15.9
25		W. B.$_1$ XII. 363..	9	24 25.75	+ 0.01	-1.62	12 24 24.14	- 2.61	320 21 21.98	38.15	47.33	- 0 41 43.3	44.5	+15.7
26		W. B.$_1$ XII. 420..	9	28 2.51	+ 0.02	-1.62	12 28 0.91	- 2.62	321 18 45.85	1.98	45.74	+ 0 15 42.2	40.9	+15.4
27		B. D. +1° 2721...	9	30 53.92	0.02	1.62	12 30 52.32	2.62	322 11 41.45	57.98	44.33	+ 1 8 39.2	38.3	15.1
28		B. D. -0° 2595...	9	33 59.73	0.01	1.62	12 33 58.12	2.64	320 43 53.38	10.22	46.72	- 0 19 11.3	11.8	15.3
29		B. D. -1° 2716...	9	37 59.72	0.01	1.62	12 37 58.11	2.67	319 19 56.45	12.42	49.10	- 1 43 10.6	12.0	15.4
30	δ	Virginis.........	9	50 44.22	+ 0.03	**1.62**	12 50 42.63	2.63	324 58 32.62	49.82	40.08	+ 3 55 34.6	34.4	13.9
31	48	Virginis.........	9	58 55.80	0.00	**-1.66**	12 58 54.18	- 2.73	317 54 45.75	3.30	51.67	- 3 8 23.8	23.7	+14.7
32	ϑ	Virginis.........	9	4 56.86	0.00	**-1.60**	13 4 55.24	- 2.77	316 2 0.75	18.08	55.20	- 5 1 12.4	12.4	+14.6
33	α	Ursæ Minoris S. P.	9	23 12.61	- 8.67	-1.62	1 23 2.32	+22.96	52 13 57.24	16.07	74.15	+88 47 5.6	3.9	- 0.3

1902 APRIL 30. CLAMP WEST.

HAMMOND, OBSERVER. FREDERICK, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
34	1	H. Draconis......	9	23 13.24	+ 1.35	[**-2.38**]	9 23	....	42 47 6.62	25.18	50.77	+81 45 40.5	41.9	- 5.6
35	β	Virginis.........	9	45 40.12	0.01	**2.25**	11 45 37.91	- 2.45	323 21 42.85	0.58	41.14	2 18 44.2	44.9	+16.2
36	7	Virginis.........	9	55 0.44	+ 0.02	**2.23**	11 54 58.23	2.45	325 14 43.78	1.20	38.44	+ 4 11 47.8	48.2	15.6
37	η	Virginis.........	9	14 58.31	0.00	**2.22**	12 14 56.07	2.56	320 55 27.85	44.68	45.12	- 0 7 34.8	35.0	15.8
38		W. B.$_1$ XII. 363..	9	24 26.38	0.00	2.25	12 24 24.13	2.60	320 21 20.40	36.52	46.07	- 0 41 43.2	44.1	15.6
39		W. B.$_1$ XII. 420..	9	28 3.15	0.00	-2.25	12 28 0.90	- 2.60	321 18 44.42	0.32	44.54	+ 0 15 42.3	41.2	+15.3
40		B. D. +1° 2721...	9	30 54.53	+ 0.01	-2.26	12 30 52.28	- 2.60	322 11 40.32	57.15	43.16	+ 1 8 39.6	39.5	+15.0
41		B. D. -0° 2595...	9	34 0.37	0.00	2.26	12 33 58.11	2.63	320 43 52.32	8.22	45.50	- 0 19 10.7	11.8	15.2
42		B. D. -1° 2716...	9	38 0.41	0.00	2.26	12 37 58.15	2.66	319 19 55.55	10.88	47.82	- 1 43 9.8	11.5	15.3
43	δ	Virginis.........	9	50 44.84	+ 0.02	**2.24**	12 50 42.59	2.62	324 58 31.48	48.12	39.05	+ 3 55 34.9	34.5	13.8
44	48	Virginis.........	9	58 56.43	- 0.01	**2.28**	12 58 54.15	2.73	317 54 43.90	0.98	50.32	- 3 8 23.9	23.9	14.6
45	ϑ	Virginis.........	9	4 57.57	0.01	**2.30**	13 4 55.28	- 2.77	316 1 59.70	16.45	53.73	- 5 1 11.5	11.8	14.5
46	α	Ursæ Minoris S. P.	9	23 12.22	- 9.24	-2.29	1 23 0.69	+21.98	52 14 0.16	18.15	72.08	+88 47 4.7	3.3	+ 0.5

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
24 13 28	76.30	14.5	14.1
27 9 25	75.91	17.3	15.9
10 7	75.95	16.5	15.1
10 38	75.97	15.8	15.2
11 14	76.01	15.1	13.5
11 47	76.02	14.6	14.3
12 20	76.03	13.9	13.6
12 53	76.07	13.7	13.5
13 23	76.09	13.6	12.7
30 9 27	75.86	25.5	24.9
11 47	75.91	22.5	21.9
12 16	75.92	21.8	20.7
12 52	75.92	21.0	20.0
13 27	75.91	20.3	19.9

Bisections are made at II and V, except as noted below.

7, 33, 46. Bisections at c_5, c_4, c_2, c_1.
8, 34. Bisections at III, V.

Notes.

1–7. Seeing 5.
6, 32. Circle A read on 0′ division.
8–33. Seeing 4.
34–46. Seeing 2–3; stars unsteady.
46. Very unsteady.
46. Circle A read on 12′ division.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–6, from stars.........	+2 27.1	8.4
7, from nadir.........	2 28.23	10.09
8, from nadir.........	2 28.66	10.78
9–21, from stars $\left\{\begin{matrix} 9^h & 51^m \\ 10 & 58 \end{matrix}\right.$	2 28.73 2 28.00	10.4
22–32, from stars.........	2 27.2	9.6
33, from nadir.........	2 27.51	10.78
34, from nadir.........	2 28.73	11.38
35–45, from stars.........	2 27.6	10.4
46, from nadir.........	+2 27.58	11.38

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
4	26.6	8.2
5	27.4	8.0
6	27.7	8.7
9	29.9	10.9
10	28.2	10.1
11	28.1	10.3
19	27.6	9.3
20	27.6	11.4
21	28.8	10.7
22	27.8	9.9
23	27.4	9.2
24	26.4	9.2
30	26.7	9.3
31	27.2	9.5
32	27.9	10.3
35	28.6	10.7
36	28.2	10.6
37	26.7	9.7
43	26.9	10.1
44	27.8	10.6
45	27.5	10.6

1902 MAY 1. CLAMP WEST.

HAMMOND, OBSERVER. FREDERICK, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T : m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	1	H. Draconis	9	23 12.98	+ 1.18	−2.50	9 23 11.66	− 3.00	42 47 6.80	25.52	51.45	+81 45 40.6	42.4	− 5.6
2	ψ	Leonis	9	38 27.99	0.06	**2.47**	9 38 25.55	1.82	335 30 40.48	57.88	25.33	14 27 57.7	58.2	+ 13.8
3	ν	Leonis	9	53 1.46	0.05	**2.54**	9 52 59.01	1.89	333 57 15.12	31.92	27.28	12 54 30.4	30.3	14.4
4	α	Leonis	9	3 13.54	0.05	**2.42**	10 3 11.09	1.93	333 29 17.72	34.48	27.89	12 26 32.4	32.2	14.5
5		Mayer 454	9	13 13.25	0.05	2.50	10 13 10.80	1.98	334 9 13.88	31.92	27.11	13 6 29.4	30.5	14.3
6		Lal. 20109	9	17 21.19	+ 0.06	−2.50	10 17 18.75	− 1.99	338 16 37.15	53.78	22.30	+17 13 57.5	57.1	+12.9
7		Lal. 20181	9	19 49.79	+ 0.05	−2.50	10 19 47.34	− 2.01	334 16 7.95	25.98	26.98	+13 13 23.6	24.6	+14.2
8		W. B.$_2$ X. 406	9	23 14.82	0.06	2.50	10 23 12.38	2.02	336 17 43.08	0.48	24.59	15 15 1.1	1.5	13.6
9		Lal. 20406	9	27 9.12	0.05	2.50	10 27 6.67	2.04	334 27 53.82	10.65	26.76	13 25 9.6	9.5	14.2
10		W. B.$_1$ X. 583	9	35 30.87	0.05	2.50	10 35 28.42	2.08	333 37 54.40	11.15	27.79	12 35 9.2	9.0	14.4
11	k	Leonis	9	41 18.51	0.06	2.50	10 41 16.07	2.10	335 45 12.58	30.80	25.26	14 42 29.9	31.2	13.7
12	l	Leonis	9	44 10.99	+ 0.05	−**2.49**	10 44 8.54	− 2.12	332 6 23.28	40.80	29.70	+11 3 36.2	36.8	+14.8
13	χ	Leonis	9	0 2.46	+ 0.04	−**2.55**	11 0 0.00	− 2.19	328 54 33.48	49.52	33.89	+ 7 51 42.2	41.3	+15.6
14	θ	Leonis	9	9 10.54	0.06	**2.50**	11 9 8.10	2.20	337 0 22.22	38.58	23.87	15 57 40.9	40.4	13.0
15	β	Virginis	9	45 40.39	0.02	**2.54**	11 45 37.85	2.44	323 21 45.62	2.40	41.88	2 18 44.9	44.9	16.2
16	7	Virginis	9	55 0.75	0.03	**2.56**	11 54 58.22	2.44	325 14 46.18	4.02	39.09	+ 4 11 48.2	49.3	15.5
17	η	Virginis	9	14 58.62	0.02	**2.56**	12 14 56.08	2.55	320 55 29.12	45.90	45.81	− 0 7 35.5	35.5	15.8
18		W. B.$_1$ XII. 363	9	24 26.60	+ 0.01	−2.56	12 24 24.05	− 2.60	320 21 22.80	37.88	46.76	− 0 41 42.8	44.5	+15.6
19		W. B.$_1$ XII. 420	9	28 3.45	+ 0.02	−2.56	12 28 0.91	− 2.60	321 18 47.40	2.88	45.22	+ 0 15 43.3	42.0	+15.3
20		B. D.+1° 2721	9	30 54.80	0.02	2.56	12 30 52.26	2.60	322 11 42.48	58.52	43.82	+ 1 8 39.8	39.1	15.0
21		B. D.−0° 2595	9	34 0.64	0.02	2.56	12 33 58.10	2.62	320 43 54.62	10.50	46.20	0 19 10.4	11.3	15.2
22		B. D.−1° 2716	9	38 0.66	0.01	2.56	12 37 58.11	2.65	319 19 57.48	11.88	48.55	− 1 43 9.9	12.3	15.2
23	δ	Virginis	9	50 45.13	0.03	**2.54**	12 50 42.60	2.62	324 58 33.80	49.55	39.66	+ 3 55 35.3	34.3	13.7
24	48	Virginis	9	58 56.68	+ 0.01	−**2.55**	12 58 54.13	− 2.73	317 54 45.90	2.25	51.11	− 3 8 24.0	24.5	+14.6
25	θ	Virginis	9	4 57.84	0.00	−**2.58**	13 4 55.28	− 2.77	316 2 1.60	18.50	54.59	− 5 1 11.8	11.7	+14.5
26	α	Ursæ Minoris S. P.	8	23 13.32	− 8.01	−2.56	1 23 2.75	+21.67	52 14 0.62	18.28	73.25	+88 47 3.8	2.5	+ 0.7

1902 MAY 8. CLAMP WEST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T : m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
27	θ	Virginis	9	4 59.38	− 0.07	[−**4.06**]	13 5	.....	316 1	.....	.....	− 5 1	....	....
28	α	Ursæ Minoris S. P.	9	23 22.44	−12.39	[**3.97**]	1 23	.....	52 14 1.32	25.18	73.15	+88 47 1.4	0.3	+ 2.8
29	η	Bootis	9	50 7.71	+ 0.06	[−**4.04**]	13 50	.....	339 55	.....	.....	+18 53	....	....

1902 MAY 9. CLAMP WEST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T : m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
30	12	Canum Venat.	9	51 33.09	+ 0.22	[−**4.22**]	12 51	.....	359 53	.....	.....	+38 51	....	....
31	20	Canum Venat.	9	13 15.39	+ 0.24	[**4.17**]	13 13	.....	2 8	.....	.....	41 6	....	....
32	α	Ursæ Minoris S. P.	9	23 25.40	−13.99	[−**4.66**]	1 23	.....	52 14 0.09	23.63	74.28	+88 47 1.5	1.1	+ 3.0

1902 MAY 11. CLAMP WEST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T : m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
33	ε	Virginis	9	57 25.41	+ 0.02	[−**4.98**]	12 57	.....	332 30	.....	.....	+11 29	....	....
34	20	Canum Venat.	9	13 16.13	+ 0.21	[**4.90**]	13 13	.....	2 8	.....	.....	41 6	....	....
35	α	Ursæ Minoris S. P.	9	23 25.41	−12.48	[−**4.91**]	1 23	.....	52 14 0.81	24.02	74.94	+88 47 0.5	0.8	+ 3.4

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
1 9 25	75.99	22.4	21.6
10 5	75.99	21.0	19.3
10 38	76.01	20.2	18.7
11 18	76.05	18.2	17.6
11 47	76.04	18.5	17.5
12 26	76.05	17.9	16.9
12 54	76.09	17.6	16.3
13 28	76.10	17.2	16.0
8 13 12	75.58	17.7	14.7
13 32	.....	....	14.5
9 13 17	76.01	13.8	12.1
13 30	.....	....	11.8
11 13 17	76.23	12.0	10.5
13 28	.....	....	10.4

Bisections are made at II and V, except as noted below.

1. Bisections at III, V.
26, 28, 32, 35. Bisections at c$_5$, c$_4$, c$_2$, c$_1$.

Notes.

1–14, 33–35.	Seeing 3.
15–26.	Seeing 4.
25.	Circle A read on 0′ division.
26, 28, 32, 35.	Circle A read on 12′ division.
27.	Seeing 2–3.
28, 29.	Seeing 2.
30–32.	Seeing 3–4.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1, from nadir	+2	27.93	10.85
2–14, from stars	2	27.8	10.6
15–25, from stars	2	26.3	9.3
26, from nadir	2	26.93	10.85
28, from nadir	2	28.66	6.26
32, from nadir	2	28.70	5.84
35, from nadir	+2	28.26	5.14

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
2	28.6	10.9
3	27.3	10.2
4	27.6	10.6
12	26.5	8.7
13	27.6	11.3
14	28.9	12.2
15	26.6	9.6
16	26.6	8.5
17	26.1	9.1
23	25.3	9.3
24	26.6	10.1
25	26.5	9.4

1902 MAY 12. CLAMP WEST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	ΔT + m.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	12	Canum Venat....	9	51 34.16	+ 0.17	[−**5.27**]	12 51	....	359 53	.....	.....	+38 51	....	....
2	20	Canum Venat....	9	13 16.42	+ 0.18	[**5.17**]	13 13	....	2 8	.....	.....	41 6	....	....
3	α	Ursæ Minoris S. P.	8	23 24.46	−10.69	[−**5.19**]	1 23	....	52 14 1.60	25.36	73.43	+88 47 1.5	1.3	+ 3.6

1902 MAY 15. CLAMP WEST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	ΔT + m.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
4	12	Canum Venat....	9	51 35.01	+ 0.14	[−**6.12**]	12 51	....	359 53	.....	.....	+38 51	....	....
5	20	Canum Venat....	9	13 17.30	+ 0.16	[**6.06**]	13 13	....	2 8	.....	.....	41 6	....	....
6	α	Ursæ Minoris S. P.	9	23 25.72	− 9.51	[−**6.03**]	1 23	....	52 14 3.10	25.94	74.28	+88 46 59.2	59.4	+ 4.3

1902 MAY 22. CLAMP WEST.

UPDEGRAFF, OBSERVER. NO ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	ΔT + m.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
7	ε	Virginis	9	57 28.39	+ 0.01	[−**8.01**]	12 57	....	332 30	.....	.....	+11 29	....	....
8	20	Canum Venat....	9	13 19.18	+ 0.17	[**8.02**]	13 13	....	2 8	.....	.....	41 6	....	....
9	α	Ursæ Minoris S. P.	9	23 33.50	−10.35	[−**7.80**]	1 23	....	52 14 7.52	30.32	71.93	+88 46 58.2	58.2	+ 6.0

1902 MAY 27. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	ΔT + m.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
10	α	Ursæ Minoris S. P.	.	.. ..	.....	....	1 23	....	52 14 5.58	30.76	73.82	+88 46 57.2	57.1	+ 6.9

1902 MAY 29. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	ΔT + m.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
11	12	Canum Venat....	9	51 39.72	+ 0.18	−**11.06**	12 51 28.83	− 2.16	359 53 8.55	28.92	0.07	+38 50 49.2	50.0	+ 1.4
12	43	H. Cephei S. P...	8	55 31.98	− 3.41	11.08	0 55 17.49	1.14	55 17 10.50	30.58	81.96	+85 43 46.3	46.2	7.6
13	γ	Hydræ	9	13 49.86	0.17	11.08	13 13 38.61	− 3.02	298 24 30.28	48.22	104.71	−22 39 33.4	35.2	17.4
14	α	Ursæ Minoris S. P.	9	23 43.78	−11.76	11.09	1 23 20.93	+ 3.38	52 14 8.14	28.08	73.53	+88 46 56.9	57.1	7.2
15	25	Canum Venat....	9	33 19.71	+ 0.16	**11.09**	13 33 8.78	− 2.34	357 49 55.78	15.78	2.12	+36 47 34.2	34.8	1.2
16	m	Virginis	9	36 42.06	− 0.09	−**11.09**	13 36 30.88	− 2.85	312 50 36.92	56.95	61.32	− 8 12 43.6	43.1	+12.3
17	τ	Bootis	9	42 49.90	+ 0.05	−**11.12**	13 42 38.85	− 2.52	338 59 18.30	36.72	21.86	+17 56 37.1	36.1	+ 5.5
18	89	Virginis	9	44 47.05	− 0.14	11.10	13 44 35.81	3.07	303 24 46.52	6.08	86.14	−17 38 58.8	58.8	14.0
19		B. D. +40° 2701 ..	9	47 49.59	+ 0.19	11.10	13 47 38.68	2.38	1 11 31.58	51.32	1.23	+40 9 13.6	13.7	0.2
20	η	Bootis	9	50 14.72	+ 0.05	**11.10**	13 50 3.67	2.55	339 55 54.92	14.62	20.80	18 53 14.8	15.0	5.3
21	τ	Virginis	9	56 53.41	− 0.03	**11.09**	13 56 42.28	2.79	323 3 59.95	21.80	42.83	2 0 57.8	60.2	+ 8.8
22	α	Draconis	9	1 57.14	+ 0.51	−11.10	14 1 46.55	− 2.41	25 52 33.35	53.72	27.74	+64 50 41.7	42.5	− 4.4
23	d	Bootis	9	6 9.34	+ 0.09	−11.10	14 5 58.33	− 2.54	346 35 48.88	11.52	13.56	+25 33 15.8	19.2	+ 3.1
24	4	Ursæ Minoris	9	9 26.48	+ 1.14	11.10	14 9 16.52	2.82	39 2 6.22	25.22	46.34	+78 0 32.9	32.4	− 5.9
25	λ	Virginis	9	14 2.68	− 0.11	**11.16**	14 13 51.47	3.10	308 8 8.50	28.62	72.53	−12 55 23.3	22.7	+10.8
26	ϑ	Bootis	9	22 4.89	+ 0.30	11.10	14 21 54.09	2.44	13 20 19.98	40.60	13.60	+52 18 14.2	15.3	− 2.1
27	γ	Bootis	9	28 21.34	0.17	**11.06**	14 28 10.40	2.51	359 46 32.68	52.45	0.18	38 44 12.8	13.4	0.1
28	33	Bootis	9	35 24.79	+ 0.22	−11.11	14 35 13.90	− 2.50	5 51 53.05	12.65	5.92	+44 49 39.5	39.7	− 1.1
29	109	Virginis	9	41 31.67	− 0.03	−**11.09**	14 41 20.53	− 2.92	323 21 16.52	36.40	42.49	+ 2 18 14.6	15.1	+ 6.3
30	α	Libræ	9	45 41.94	− 0.12	**11.23**	14 45 30.71	3.28	305 25 26.02	46.48	80.20	−15 38 13.6	12.5	+ 8.9
31	61	B. Draconis......	9	49 10.42	+ 0.39	11.12	14 48 59.69	2.57	20 43 31.28	51.85	21.72	+59 41 33.5	34.7	− 3.4
32	47	H. Cephei S. P...	9	53 14.78	− 1.21	11.12	2 53 2.45	0.20	61 58 43.10	2.28	107.40	79 1 48.4	48.8	+ 6.6
33	β	Bootis	9	58 28.76	+ 0.18	11.12	14 58 17.82	2.59	1 48 54.98	13.98	1.86	40 46 37.3	37.0	− 0.6
34	1	H. Ursæ Minoris.	9	13 44.13	+ 0.56	−11.12	15 13 33.57	− 2.82	28 44 59.92	18.45	31.51	+67 43 11.8	11.0	3.9

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
12 13 19	75.85	15.4	14.5
15 13 18	76.20	13.8	12.6
22 13 15	75.94	21.8	20.5
13 29	.....	....	20.6
27 13 24	75.16	12.3	10.6
29 12 47	76.04	16.5	15.9
13 17	76.06	16.0	15.0
13 55	76.09	15.4	14.6
14 30	.....	....	14.1
15 1	76.10	14.5	13.4

Bisections are made at II and V, except as noted below.

3, 6, 9, 10, 14.	Bisections at c_5, c_4, c_2, c_1.
12.	Bisections at c_5, c_1.
19, 22, 24, 26, 28, 31, 33, 34.	Bisections at III, V.
32.	Bisections at V, III.

Notes.

1–6.	Seeing 4.
3.	Circle A read on 12′ division.
7–9.	Seeing 3–4.
10.	Seeing 3; clouds.
11–34.	Seeing 3.
19.	Observed head south.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
3, from nadir	+2 28.06	4.76
6, from nadir	2 27.96	5.24
9, from nadir	2 26.86	4.40
10, from nadir	+2 28.26	2.83
11–34, from nadir	*	6.16

* Interpolated from diagram.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T - m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		B. D.+41° 2592 . .	9	16 42.08	+0.18	—11.12	15 16 31.14	— 2.64	2 22 15.15	35.58	2.42	+41 19 58.0	59.2	—0.9
2	μ	Bootis	9	21 0.88	0.16	**11.09**	15 20 49.92	2.65	358 45 35.58	55.00	1.20	37 43 14.5	15.0	0.5
3	ι	Draconis	9	22 58.34	0.38	11.12	15 22 47.60	2.69	20 20 33.15	52.70	21.32	59 18 34.8	35.1	3.0
4	ν^1	Bootis	9	27 38.14	+0.18	11.12	15 27 27.20	2.65	2 12 17.78	37.90	2.25	+41 10 0.4	1.3	— 1.0
5	γ	Libræ	9	30 17.13	—0.12	**11.07**	15 30 5.89	3.36	306 35 44.92	5.42	77.02	—14 27 51.7	50.4	— 5.0
6		B. D.+38° 2678 . .	9	32 25.43	+0.16	—11.13	15 32 14.46	— 2.68	359 44 15.58	34.68	0.22	+38 41 55.5	55.6	— 0.7
7	ζ	Coronæ Borealis .	9	35 54.87	+0.15	—11.13	15 35 43.89	— 2.70	357 59 35.00	53.98	1.97	+36 57 13.1	13.2	— 0.5
8		B. D.+39° 2901 . .	9	38 4.43	0.16	11.13	15 37 53.46	2.70	359 54 39.32	57.68	0.05	38 52 19.4	18.8	— 0.8
9	β	Serpentis	9	41 53.83	0.03	**11.10**	15 41 42.73	2.87	336 46 24.10	44.62	24.59	15 43 39.8	41.2	+ 1.5
10	κ	Serpentis	9	44 33.60	0.04	**11.12**	15 44 22.51	2.85	339 29 18.25	36.45	21.43	18 26 37.0	36.2	+ 1.1
11	ζ	Ursæ Minoris	9	47 46.80	1.07	11.13	15 47 36.74	3.67	39 7 22.98	42.18	46.74	78 5 49.7	49.8	— 4.2
12		B. D.+38° 2712 . .	9	52 27.32	+0.16	—11.14	15 52 16.34	— 2.72	359 16 8.95	27.98	0.69	+38 13 48.3	48.5	— 0.8
13	δ	Scorpii	9	54 47.14	—0.16	—11.14	15 54 35.84	3.60	298 43 25.65	44.25	104.26	—22 20 38.2	38.8	+ 3.4
14	θ	Draconis	9	0 16.66	+0.36	11.14	16 0 5.88	— 2.77	19 51 37.00	56.85	20.80	+58 49 38.0	38.8	— 2.7
15	151	H^1. Cephei S. P . .	9	5 51.19	—2.71	11.14	4 5 37.34	— 3.08	55 43 9.32	29.20	84.30	85 17 45.0	44.4	— 4.6
16	σ^2	Coronæ Borealis .	9	11 14.26	+0.13	**11.13**	16 11 3.25	— 2.76	355 8 49.00	8.95	4.85	+34 6 24.2	25.3	— 0.7
17	ε	Ophiuchi	9	13 22.52	—0.06	**11.17**	16 13 11.32	3.19	316 35 59.38	19.38	54.31	— 4 27 14.7	13.7	+ 1.1
18	γ	Herculis	9	17 49.80	+0.05	—**11.17**	16 17 38.71	— 2.88	340 25 38.62	57.75	20.43	+19 22 58.3	58.5	0.0
19	η	Ursæ Minoris	9	20 35.61	+0.88	—11.14	16 20 25.35	— 3.59	37 0 31.25	50.40	43.46	+75 58 54.7	54.8	— 3.4
20	α	Scorpii	9	23 38.92	—0.18	11.14	16 23 27.60	3.74	294 51 28.82	47.45	123.49	—26 12 54.3	54.8	+ 0.7
21	β	Herculis	9	26 14.31	+0.06	**11.14**	16 26 3.23	2.86	342 44 47.82	7.92	18.27	+21 42 9.6	10.8	— 0.4
22	σ	Herculis	9	31 10.32	+0.18	11.14	16 30 59.36	— 2.75	3 40 36.25	56.35	3.75	42 38 20.2	21.3	— 1.4
23	35	B. Camelop. S. P . .	9	35 50.43	—0.86	11.15	4 35 38.42	+ 0.07	65 14 31.00	48.75	124.63	75 45 43.7	45.2	+ 4.5
24	η	Herculis	9	39 45.87	+0.16	—11.15	16 39 34.88	— 2.77	0 8 50.88	9.40	0.19	+39 6 31.2	30.8	— 1.1
25	114	B. Draconis	9	43 39.83	+0.32	—11.15	16 43 29.00	— 2.86	17 59 26.60	46.48	18.78	+56 57 25.4	26.4	— 1.9
26	κ	Ophiuchi	9	53 15.89	0.00	**11.16**	16 53 4.74	2.99	330 34 31.85	50.95	32.50	9 31 39.4	39.7	1.2
27	ε	Ursæ Minoris	7	56 14.09	+1.57	11.15	16 56 4.51	5.15	43 13 23.45	48.88	54.31	82 11 57.3	59.4	2.8
28	d	Herculis	9	58 13.04	+0.12	**11.12**	16 58 2.01	— 2.80	354 45 1.80	22.65	5.26	33 42 36.6	38.6	— 1.3
29	19	H. Camelop. S. P . .	9	6 35.43	—1.11	—11.16	5 6 23.16	+ 0.75	61 53 25.50	45.15	107.92	+79 7 5.9	5.4	+ 3.4
		UPDEGRAFF, OBSERVER.					1902 MAY 30.		CLAMP WEST.			HAMMOND, A SSISTANT.		
30	12	Canum Venat	9	51 40.08	+0.12	—**11.37**	12 51 28.80	— 2.15	359 53 8.95	27.80	0.07	+38 50 48.9	50.0	— 1.2
31	43	H. Cephei S. P. . . .	9	55 31.21	—2.36	11.40	0 55 17.45	1.40	55 17 12.60	30.80	80.92	+85 43 46.0	45.9	7.8
32	γ	Hydræ	9	13 50.12	0.13	11.40	13 13 38.59	— 3.02	298 24 29.45	47.42	103.33	—22 39 33.5	33.6	17.4
33	α	Ursæ Minoris S. P.	9	23 40.72	—7.67	11.39	1 23 21.66	+ 2.63	52 14 9.91	28.60	72.55	+88 46 56.7	56.5	7.4
34	25	Canum Venat	9	33 20.05	+0.10	**11.38**	13 33 8.76	— 2.33	357 49 55.88	14.20	2.09	+36 47 34.0	34.4	1.0
35	m	Virginis	9	36 42.41	—0.07	—**11.46**	13 36 30.95	— 2.85	312 50 36.48	55.30	60.50	— 8 12 43.7	42.9	+12.3
36	τ	Bootis	9	42 50.21	+0.02	—**11.40**	13 42 38.84	— 2.52	338 59 18.12	35.15	21.57	+17 56 36.7	35.9	+ 5.3
37	89	Virginis	9	44 47.29	—0.11	11.39	13 44 35.79	3.06	303 24 45.15	4.10	84.98	—17 38 59.5	58.6	+14.0
38		B. D.+40° 2701 . .	9	47 49.96	+0.11	11.39	13 47 38.68	2.37	1 11 33.55	51.92	1.21	+40 9 14.7	15.4	0.0
39	η	Bootis	9	50 15.01	+0.02	**11.37**	13 50 3.64	2.54	339 55 55.32	13.45	20.52	18 53 14.9	15.2	+ 5.1
40	τ	Virginis	9	56 53.72	—0.04	**11.40**	13 56 42.29	2.78	323 4 0.30	20.02	42.27	2 0 58.3	60.0	+ 8.7
41	α	Draconis	9	1 57.58	+0.31	—11.39	14 1 46.50	— 2.38	25 52 34.20	53.58	27.38	+64 50 41.7	43.1	— 4.6
42	d	Bootis	9	6 9.66	+0.04	—11.39	14 5 58.31	— 2.53	346 35 50.78	10.32	13.39	+25 33 17.5	19.2	+ 2.9
43	4	Ursæ Minoris	9	9 26.94	+0.69	11.39	14 9 16.24	2.76	39 2 7.45	26.65	45.74	+78 0 33.1	34.3	— 6.1
44	λ	Virginis	9	14 2.96	—0.09	**11.46**	14 13 51.48	3.10	308 8 8.32	27.32	71.60	—12 55 23.0	22.0	+10.8
45	θ	Bootis	9	22 5.30	+0.17	11.39	14 21 54.08	2.43	13 20 20.95	39.52	13.42	+52 18 14.6	15.2	— 2.4
46	γ	Bootis	8	28 21.71	0.10	**11.37**	14 28 10.42	2.50	359 46 33.22	51.45	0.18	38 44 13.0	13.5	0.4
47	33	Bootis	9	35 25.16	+0.12	—11.39	14 35 13.89	— 2.49	5 51 53.75	11.78	5.84	+44 49 39.8	39.8	— 1.4
48	109	Virginis	9	41 31.94	—0.04	—**11.35**	14 41 20.51	— 2.92	323 21 16.22	35.55	41.95	+ 2 18 14.5	15.9	+ 6.2
49	α	Libræ	9	45 42.14	—0.10	**11.45**	14 45 30.65	3.28	305 25 25.30	44.82	79.18	—15 38 13.6	12.0	+ 8.9
50	61	B. Draconis	9	49 10.86	+0.23	11.39	14 48 59.70	2.55	20 43 31.75	51.38	21.43	+59 41 33.4	35.0	3.7
51	47	H. Cephei S. P. . . .	9	53 14.87	0.71	11.39	2 53 2.77	0.28	61 58 45.70	3.58	106.00	79 1 47.4	47.8	— 6.8
52	β	Bootis	9	58 29.09	+0.10	11.39	14 58 17.80	2.59	1 48 55.55	13.45	1.83	40 46 37.6	37.5	0.9
53	1	H. Ursæ Minoris .	9	13 44.57	+0.32	—11.39	15 13 33.50	— 2.80	28 45 0.38	18.08	31.07	+67 43 11.6	11.3	4.2

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	cm.	°	°
29	15	25	. . . . .	. . . .	13.0
	15	49	76.07	13.7	12.8
	16	28	76.10	13.1	11.9
	17	4	76.11	12.6	11.3
30	12	49	76.32	21.3	20.3
	13	19	. . . . .	. . . .	19.7
	13	58	76.35	20.0	19.1
	14	30	. . . . .	. . . .	18.5
	15	0	76.36	19.0	18.1

Bisections are made at II and V, except as noted below.

1, 3, 4, 11, 14, 19, 22, 24, 25, 28, 34, 41, 43, 45, 47, 50, 52, 53.	Bisections at III, V.
15, 23, 29, 51.	Bisections at V, III.
27.	Bisections at III, VII.
31.	Bisections at c_5, c_1.
33.	Bisections at c_5, c_4, c_2, c_1.

Notes.

1–19, 30–53.	Seeing 3.
1, 4, 34.	Observed head south.
6, 7, 8, 12, 38.	Observed head north.
20–29.	Seeing 2.
40.	Circle A read on 2′ division.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–29, from nadir	*	6.16
30–53, from nadir	+2 25.38	7.24

*Interpolated from diagram.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	ΔT−m.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	B. D. −41° 2592	9	16 42.39	−0.10	−11.39	15 16 31.10	− 2.64	2 22 16.20	35.65	2.38	−41 19 58.6	60.3	1.1
2	μ Bootis	9	21 1.19	0.08	**11.32**	15 20 49.88	2.65	358 45 35.78	54.95	1.18	37 43 14.6	16.0	0.8
3	ι Draconis	9	22 58.69	0.22	11.39	15 22 47.52	2.69	20 20 34.42	52.55	21.02	59 18 35.6	35.8	3.3
4	ν^1 Bootis	9	27 38.47	+0.10	11.40	15 27 27.17	2.65	2 12 19.00	37.65	2.22	+41 10 1.2	2.1	− 1.2
5	γ Libræ	9	30 17.41	−0.09	**11.38**	15 30 5.92	3.36	306 35 44.42	4.05	75.95	−14 27 51.2	49.6	+ 5.0
6	B. D. +38° 2678	9	32 25.71	+0.09	11.40	15 32 14.40	− 2.68	359 44 15.85	33.75	0.22	+38 41 55.9	55.8	− 1.0
7	ζ Coronæ Borealis	9	35 55.22	+0.08	11.40	15 35 43.90	− 2.69	357 59 34.68	53.25	1.94	+36 57 13.0	13.6	− 0.8
8	B. D. +39° 2901	9	38 4.79	+0.09	11.40	15 37 53.48	2.68	359 54 39.12	56.88	0.05	38 52 19.3	19.1	− 1.0
9	β Serpentis	9	41 54.10	0.00	**11.33**	15 41 42.70	2.88	336 46 24.22	43.28	24.24	15 43 40.1	41.3	+ 1.4
10	κ Serpentis	9	44 33.96	+0.01	**11.45**	15 44 22.57	2.85	339 29 18.85	35.85	21.12	18 26 37.9	37.0	+ 0.9
11	ζ Ursæ Minoris	9	47 47.36	0.63	11.40	15 47 36.59	3.64	39 7 23.68	42.00	46.08	78 5 49.7	50.0	− 4.5
12	B. D. +38° 2712	9	52 27.68	+0.08	11.40	15 52 16.36	2.73	359 16 8.50	27.40	0.68	+38 13 48.1	49.0	− 1.1
13	δ Scorpii	9	54 47.36	−0.12	−11.40	15 54 35.84	3.61	298 43 24.18	41.18	102.71	−22 20 38.2	39.2	+ 3.4
14	θ Draconis	9	0 17.06	+0.21	11.40	16 0 5.87	− 2.77	19 51 37.30	56.88	20.49	+58 49 38.0	39.5	− 3.0
15	151 H^1. Cephei s. p.	8	5 50.51	−1.59	11.40	4 5 37.52	+ 3.02	55 43 11.82	30.18	83.00	85 17 43.8	43.7	− 5.0
16	σ^2 Coronæ Borealis	9	11 14.56	+0.07	**11.37**	16 11 3.22	2.76	355 8 49.70	7.78	4.77	+34 6 25.0	25.3	− 0.7
17	ε Ophiuchi	9	13 22.81	−0.06	**11.45**	16 13 11.34	3.20	316 35 57.65	17.52	53.46	− 4 27 15.6	13.6	+ 1.0
18	γ Herculis	9	17 50.07	+0.02	**−11.41**	16 17 38.68	2.88	340 25 39.18	57.00	20.10	+19 22 59.2	59.2	− 0.2
19	η Ursæ Minoris	9	20 36.22	+0.52	−11.41	16 20 25.33	3.58	37 0 32.70	50.85	42.77	+75 58 55.5	55.6	− 3.7
20	α Scorpii	9	23 39.17	−0.13	11.41	16 23 27.63	3.75	294 51 26.35	45.72	121.47	−26 12 54.8	53.4	+ 0.7
21	β Herculis	9	26 14.67	+0.02	**11.45**	16 26 3.28	2.87	342 44 48.62	7.32	17.57	+21 42 11.2	12.0	− 0.6
22	σ Herculis	9	31 10.63	+0.10	11.41	16 30 59.32	− 2.76	3 40 36.90	55.45	3.69	42 38 20.8	21.4	− 1.7
23	35 B. Camelop. s. p.	9	35 50.27	0.51	11.41	4 35 38.35	+ 0.05	65 14 32.20	49.15	122.54	75 45 44.5	45.8	+ 4.8
24	η Herculis	9	39 46.27	+0.09	−11.41	16 39 34.95	− 2.78	0 8 51.35	8.82	0.19	+39 6 31.8	31.3	− 1.4
25	114 B. Draconis	9	43 40.28	+0.19	−11.41	16 43 29.06	− 2.86	17 59 28.02	46.28	18.48	+56 57 26.7	27.0	− 2.2
26	49 Herculis	9	47 51.53	0.00	**11.46**	16 47 40.12	2.94	336 11 2.75	21.85	25.00	15 8 17.9	19.1	1.2
27	κ Ophiuchi	9	53 16.17	−0.01	**11.42**	16 53 4.74	3.00	330 34 31.78	48.75	31.95	9 31 40.0	39.1	1.4
28	ε Ursæ Minoris	7	56 15.04	+0.95	11.42	16 56 4.57	5.16	43 13 25.05	48.62	53.40	82 11 58.4	59.4	3.1
29	d Herculis	9	58 13.38	+0.06	**11.39**	16 58 2.02	− 2.81	354 45 1.10	21.35	5.18	33 42 36.0	38.4	− 1.6
30	19 H. Camelop. s. p.	9	6 35.53	−0.67	−11.42	5 6 23.44	+ 0.74	61 53 28.20	46.60	106.07	+79 7 4.9	4.8	+ 3.6

1902 JUNE 1. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	ΔT−m.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
31	12 Canum Venat.	9	51 40.73	+0.13	**−12.06**	12 51 28.80	− 2.12	359 53 9.10	28.32	0.07	+38 50 49.6	50.2	+ 0.9
32	43 H. Cephei s. p.	8	55 32.68	−2.50	12.06	0 55 18.12	1.93	55 17 12.52	31.70	80.80	+85 43 45.5	45.4	8.0
33	γ Hydræ	9	13 50.76	0.15	12.06	13 13 38.55	− 3.00	298 24 29.30	46.90	103.17	−22 39 32.9	34.2	17.4
34	α Ursæ Minoris s. p.	9	23 44.11	−8.80	12.06	1 23 23.25	+ 0.95	52 14 9.88	29.34	72.47	+88 46 56.2	56.0	7.8
35	25 Canum Venat.	9	33 20.68	+0.12	**12.05**	13 33 8.74	− 2.31	357 49 56.48	15.38	2.09	+36 47 35.0	35.4	0.6
36	m Virginis	9	36 43.03	−0.08	**−12.08**	13 36 30.89	− 2.84	312 50 36.00	55.70	60.42	− 8 12 43.5	42.5	+12.2
37	τ Bootis	9	42 50.86	+0.03	**−12.08**	13 42 38.83	− 2.50	338 59 18.38	35.88	21.55	+17 56 37.6	36.5	+ 5.0
38	89 Virginis	9	44 47.96	−0.12	12.06	13 44 35.78	3.05	303 24 45.30	3.58	84.86	−17 38 58.6	59.1	+14.0
39	B. D. +40° 2701	9	47 50.58	+0.14	12.06	13 47 38.66	2.35	1 11 32.45	51.35	1.21	+40 9 14.5	14.7	− 0.4
40	η Bootis	9	50 15.67	+0.03	**12.05**	13 50 3.64	2.53	339 55 55.10	13.50	20.50	18 53 15.4	15.2	+ 4.8
41	τ Virginis	9	56 54.39	−0.04	**12.08**	13 56 42.29	2.77	323 3 59.45	20.40	42.22	2 0 58.1	60.4	+ 8.5
42	α Draconis	9	1 58.14	+0.39	−12.06	14 1 46.47	− 2.33	25 52 34.70	53.95	27.34	+64 50 42.8	43.4	− 5.1
43	d Bootis	9	6 10.30	+0.06	−12.06	14 5 58.30	− 2.52	346 35 50.12	9.38	13.38	+25 33 17.5	18.2	+ 2.6
44	4 Ursæ Minoris	9	9 27.30	+0.88	12.06	14 9 16.12	2.63	39 2 8.05	26.32	45.70	+78 0 34.3	33.9	− 6.6
45	λ Virginis	9	14 3.59	−0.10	**12.08**	14 13 51.43	3.10	308 8 7.40	26.15	71.52	−12 55 23.2	23.0	+10.8
46	θ Bootis	9	22 5.86	+0.23	12.06	14 21 54.03	2.40	13 20 21.42	39.75	13.41	+52 18 15.7	15.4	− 2.9
47	γ Bootis	9	28 22.40	0.13	**12.10**	14 28 10.47	2.49	359 46 33.10	51.82	0.18	38 44 13.5	14.0	0.8
48	33 Bootis	9	35 25.77	+0.17	−12.06	14 35 13.88	− 2.47	5 51 53.35	11.45	5.84	+44 49 40.0	39.6	− 1.9
49	109 Virginis	9	41 32.64	−0.04	**−12.05**	14 41 20.54	− 2.92	323 21 15.75	35.00	41.89	+ 2 18 14.7	15.5	+ 6.0
50	α Libræ	9	45 42.80	−0.12	**12.09**	14 45 30.62	3.28	305 25 24.22	43.92	79.05	−15 38 13.9	12.7	+ 8.9
51	61 B. Draconis	9	49 11.44	+0.31	12.06	14 48 59.69	2.53	20 43 32.02	52.18	21.40	+59 41 34.2	35.9	− 4.2
52	47 H. Cephei s. p.	9	53 15.68	−0.96	12.06	2 53 2.66	0.42	61 58 45.88	4.25	105.83	79 1 46.8	47.2	+ 7.3
53	β Bootis	9	58 29.70	+0.14	12.06	14 58 17.78	2.58	1 48 55.28	13.82	1.83	40 46 38.0	38.1	− 1.4
54	1 H. Ursæ Minoris	9	13 45.15	+0.45	−12.06	15 13 33.54	− 2.76	28 45 0.62	19.30	31.04	+67 43 12.4	12.7	− 4.8

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
30 15 34	.....	....	17.9
16 2	76.35	18.5	17.7
16 33	.....	....	17.2
17 3	76.34	17.7	16.9
1 12 49	76.63	22.9	21.7
13 21	.....	....	21.0
13 58	76.63	21.5	20.4
14 30	.....	....	19.8
15 1	76.64	20.5	19.5

Bisections are made at II and V, except as noted below.

3, 6, 7, 8, 11, 12, 14, 19, 20, 22, 24, 25, 39, 42, 44, 46, 48, 51, 53, 54.	Bisections at III, V.
15, 23, 30, 52.	Bisections at V, III.
28.	Bisections at b_2, VII.
32.	Bisections at c_5, c_1.
34.	Bisections at c_5, c_4, c_2, c_1.

Notes.

1–30.	Seeing 3.
1, 4, 35.	Observed head north.
6, 7, 8, 12, 39.	Observed head south.
31–54.	Seeing 3–4.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–30, from nadir	+2 25.38	7.24
31–54, from nadir	+2 26.01	*

* Interpolated from diagram.

NO.		NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		B. D.+41° 2592	9	16 43.01	+0.14	−12.06	15 16 31.09	− 2.63	2 22 16.08	36.05	2.38	+41 19 59.3	60.9	− 1.7
2	μ	Bootis	9	21 1.81	0.12	**11.98**	15 20 49.87	2.65	358 45 35.82	55.42	1.18	37 43 15.3	16.8	1.3
3	ι	Draconis	9	22 59.31	0.30	12.06	15 22 47.55	2.67	20 20 34.42	53.25	21.01	59 18 36.2	36.7	3.9
4	ν^1	Bootis	9	27 39.03	+0.14	12.06	15 27 27.11	2.65	2 12 18.10	37.60	2.22	+41 10 1.2	2.4	− 1.8
5	γ	Libræ	9	30 18.08	−0.11	**12.02**	15 30 5.91	3.37	306 35 43.72	3.30	75.92	−14 27 51.2	50.0	+ 4.9
6		B. D.+38° 2678	9	32 26.37	+0.13	−12.06	15 32 14.44	− 2.68	359 44 16.48	34.70	0.22	+38 41 56.9	57.0	− 1.5
7	ζ	Coronæ Borealis	9	35 55.83	+0.12	−12.06	15 35 43.89	− 2.70	357 59 35.90	53.72	1.94	+36 57 14.6	14.4	− 1.3
8		B. D.+39° 2901	9	38 5.38	0.13	12.06	15 37 53.45	2.69	359 54 38.75	57.20	0.05	38 52 19.6	19.7	− 1.6
9	β	Serpentis	9	41 54.81	0.02	**12.06**	15 41 42.77	2.88	336 46 24.00	43.90	24.23	15 43 40.6	42.3	+ 1.0
10	κ	Serpentis	9	44 34.61	0.03	**12.11**	15 44 22.58	2.86	339 29 18.22	35.85	21.12	18 26 37.9	37.4	+ 0.6
11	ζ	Ursæ Minoris	9	47 47.70	0.88	12.06	15 47 36.52	3.58	39 7 24.15	42.32	46.08	78 5 50.8	50.7	− 5.1
12		B. D.+38° 2712	9	52 28.29	+0.12	−12.07	15 52 16.34	− 2.73	359 16 9.40	28.15	0.68	+38 13 49.4	50.1	− 1.6
13	δ	Scorpii	9	54 48.07	−0.15	−12.07	15 54 35.85	− 3.62	298 43 23.45	41.25	102.71	−22 20 38.3	38.7	+ 3.4
14	θ	Draconis	9	0 17.63	+0.30	12.08	16 0 5.85	− 2.77	19 51 37.60	57.52	20.49	+58 49 38.9	40.6	− 3.6
15	151	H$^{\text{I}}$. Cephei S. P.	9	5 51.58	−2.27	12.08	4 5 37.23	+ 2.87	55 43 10.95	30.22	83.00	85 17 44.0	43.2	+ 5.5
16	σ^2	Coronæ Borealis	9	11 15.29	+0.10	**12.12**	16 11 3.30	− 2.77	355 8 49.25	8.18	4.77	+34 6 25.1	26.1	− 1.5
17	ε	Ophiuchi	9	13 23.49	−0.07	**12.10**	16 13 11.33	3.22	316 35 57.88	17.80	53.44	− 4 27 14.7	12.8	+ 0.8
18	γ	Herculis	9	17 50.76	+0.03	−**12.09**	16 17 38.70	− 2.90	340 25 38.92	56.92	20.10	+19 22 59.6	59.6	− 0.7
19	η	Ursæ Minoris	9	20 36.83	+0.74	−12.10	16 20 25.47	− 3.56	37 0 32.42	50.60	42.76	+75 58 55.8	55.9	− 4.3
20	α	Scorpii	9	23 39.92	−0.17	12.10	16 23 27.65	3.77	294 51 25.70	43.95	121.42	−26 12 54.7	54.6	+ 0.8
21	β	Herculis	9	26 15.36	+0.04	**12.15**	16 26 3.29	2.88	342 44 48.10	7.68	17.56	+21 42 11.3	12.9	− 1.0
22	σ	Herculis	9	31 11.29	+0.15	12.11	16 30 59.33	2.77	3 40 37.22	55.90	3.68	42 38 21.8	22.4	− 2.3
23	35	B. Camelop. S. P	9	35 51.06	−0.73	12.11	4 35 38.22	0.00	65 14 32.00	51.05	122.49	75 45 44.1	43.4	+ 5.3
24	η	Herculis	9	39 46.90	+0.13	−12.12	16 39 34.91	− 2.79	0 8 50.88	8.67	0.19	+39 6 32.0	31.7	− 2.0
25	114	B. Draconis	9	43 40.92	+0.27	−12.13	16 43 29.06	− 2.87	17 59 28.30	46.48	18.47	+56 57 27.6	27.7	− 2.9
26	49	Herculis	9	47 52.19	+0.01	**12.11**	16 47 40.07	2.96	336 11 3.00	22.12	24.99	15 8 18.8	20.0	1.6
27	κ	Ophiuchi	9	53 16.88	−0.01	**12.11**	16 53 4.73	3.02	330 34 31.60	49.00	31.94	9 31 40.5	40.0	1.8
28	ε	Ursæ Minoris	7	56 15.27	+ 1.36	12.14	16 56 4.49	5.13	43 13 24.82	49.20	53.38	82 11 58.8	60.6	3.7
29	d	Herculis	9	58 14.07	+0.10	**12.10**	16 58 2.02	− 2.83	354 45 1.25	21.42	5.17	33 42 36.7	39.2	− 2.2
30	19	H. Camelop. S. P	9	6 36.24	−0.97	−12.16	5 6 23.11	+ 0.71	61 53 26.58	45.65	106.02	+79 7 5.9	5.1	+ 4.2

1902 JUNE 2. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
31	12	Canum Venat.	9	51 41.02	+0.12	−**12.35**	12 51 28.78	− 2.11	359 53 9.60	28.35	0.07	+38 50 49.8	50.6	+ 0.7
32	43	H. Cephei S. P.	7	55 33.09	−2.29	12.37	0 55 18.43	2.20	55 17 13.58	33.58	79.65	+85 43 46.0	44.3	8.1
33	γ	Hydræ	9	13 51.08	0.14	12.37	13 13 38.57	− 2.99	298 24 28.38	46.02	101.63	−22 39 32.6	33.2	17.4
34	α	Ursæ Minoris S. P.	9	23 44.61	−8.04	12.38	1 23 24.19	+ 0.02	52 14 11.08	30.36	71.35	+88 46 56.5	55.8	8.0
35	25	Canum Venat.	9	33 20.99	+0.10	**12.36**	13 33 8.71	− 2.29	357 49 55.92	15.55	2.06	+36 47 34.4	35.8	0.4
36	m	Virginis	9	36 43.34	−0.08	−**12.40**	13 36 30.88	− 2.83	312 50 35.35	54.85	59.51	− 8 12 43.6	42.2	+12.2
37	τ	Bootis	9	42 51.19	+0.02	**12.41**	13 42 38.83	− 2.49	338 59 18.20	35.72	21.22	+17 56 37.4	36.9	+ 4.9
38	89	Virginis	9	44 48.30	−0.12	12.38	13 44 35.80	3.05	303 24 43.80	3.00	83.56	−17 38 59.2	58.1	+13.9
39		B. D.+40° 2701	9	47 50.97	+0.12	12.38	13 47 38.71	2.33	1 11 34.02	53.28	1.19	+40 9 15.5	16.8	− 0.6
40	η	Bootis	9	50 16.01	+0.02	**12.39**	13 50 3.64	2.52	339 55 55.18	13.42	20.18	18 53 15.4	15.6	+ 4.7
41	τ	Virginis	9	56 54.69	−0.04	**12.38**	13 56 42.26	2.77	323 3 59.52	19.82	41.56	2 0 58.5	60.7	+ 8.4
42	α	Draconis	9	1 58.44	+0.35	−12.39	14 1 46.40	− 2.30	25 52 34.92	54.52	26.92	+64 50 42.2	43.7	− 5.3
43	d	Bootis	9	6 10.63	+0.05	12.39	14 5 58.29	− 2.51	346 35 50.20	10.65	13.16	+25 33 17.4	19.9	+ 2.4
44	4	Ursæ Minoris	9	9 27.66	+0.80	12.39	14 9 16.07	2.56	39 2 9.05	27.92	44.98	+78 0 34.2	34.9	− 6.8
45	λ	Virginis	9	14 3.92	−0.10	**12.42**	14 13 51.43	3.09	308 8 6.62	25.45	70.37	−12 55 23.2	22.5	+10.7
46	θ	Bootis	9	22 6.19	+0.21	12.40	14 21 54.00	2.39	13 20 21.65	40.80	13.19	+52 18 15.3	16.3	− 3.1
47	γ	Bootis	9	28 22.68	0.12	**12.38**	14 28 10.40	2.48	359 46 33.22	52.25	0.18	38 44 13.3	14.4	1.0
48	33	Bootis	9	35 26.09	+0.15	−12.40	14 35 13.84	− 2.46	5 51 54.02	12.00	5.74	+44 49 40.3	40.1	− 2.1
49	109	Virginis	9	41 33.02	−0.04	−**12.43**	14 41 20.58	− 2.92	323 21 15.70	35.15	41.21	+ 2 18 15.0	16.3	+ 5.9
50	α	Libræ	9	45 43.15	−0.11	**12.45**	14 45 30.64	3.28	305 25 23.80	43.25	77.75	−15 38 13.4	12.1	+ 8.9
51	61	B. Draconis	9	49 11.78	+0.28	12.40	14 48 59.66	2.51	20 43 33.18	52.80	21.05	+59 41 34.7	36.1	− 4.5
52	47	H. Cephei S. P.	9	53 16.17	−0.88	12.41	2 53 2.88	0.50	61 58 47.38	5.65	104.07	79 1 47.4	47.6	+ 7.5
53	β	Bootis	9	58 30.07	+0.13	12.41	14 58 17.79	2.58	1 48 56.18	13.68	1.80	40 46 38.5	37.8	− 1.7
54	1	H. Ursæ Minoris	9	13 45.49	+0.41	−12.41	15 13 33.49	− 2.74	28 45 1.22	19.65	30.52	+67 43 12.1	12.4	5.0

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
1 15 25	.....	....	19.0
16 2	76.60	19.8	18.6
16 33	....	....	18.2
17 3	76.57	19.0	17.9
2 12 48	76.07	24.7	23.6
13 24	.....	....	23.2
13 59	76.07	23.8	22.8
14 30	.....	....	22.2
15 1	76.03	23.0	21.9

Bisections are made at II and V, except as noted below.

1, 3, 4, 8, 11, 14, 19, 22, 24, 25, 35, 42, 44, 46, 48, 51, 53, 54. Bisections at III, V.
15, 23, 30, 52. Bisections at V, III.
28. Bisections at b_2, VII.
32. Bisections at c_5, c_1.
34. Bisections at c_5, c_4, c_2, c_1.

Notes.

1–30. Seeing 3–4.
1, 4, 8, 35. Observed head south.
6, 7, 12, 39. Observed head north.
31–54. Seeing 3.
32. Unsteady.
39. Through clouds, *a* faint.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–30, from nadir......	+2 26.01	*
31–54, from nadir......	+2 25.65	7.34

*Interpolated from diagram.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	B. D.+41° 2592	9	16 43.42	+ 0.13	−12.41	15 16 31.14	− 2.62	2 22 17.28	36.15	2.34	+41 19 59.9	60.8	− 1.9
2	μ Bootis	9	21 2.21	0.11	**12.38**	15 20 49.90	2.64	358 45 36.48	55.70	1.16	37 43 15.6	16.9	1.6
3	ι Draconis	9	22 59.66	0.28	12.42	15 22 47.52	2.66	20 20 35.08	53.72	20.65	59 18 36.2	36.6	4.2
4	ν^1 Bootis	9	27 39.46	+ 0.13	12.42	15 27 27.17	2.64	2 12 19.65	38.35	2.18	+41 10 2.1	2.9	− 2.0
5	γ Libræ	9	30 18.43	− 0.10	**12.37**	15 30 5.91	3.38	306 35 43.32	2.05	74.60	−14 27 50.7	50.1	+ 4.9
6	B. D.+38° 2678	9	32 26.70	+ 0.12	−12.42	15 32 14.40	− 2.68	359 44 16.28	33.95	0.22	+38 41 56.6	56.1	− 1.8
7	ζ Coronæ Borealis	9	35 56.21	+ 0.10	−12.42	15 35 43.89	− 2.70	357 59 35.72	53.18	1.91	+36 57 14.3	13.6	− 1.6
8	B. D.+39° 2901	9	38 5.77	0.12	12.42	15 37 53.47	2.69	359 54 40.70	58.42	0.05	38 52 20.9	20.7	− 1.8
9	β Serpentis	9	41 55.13	0.01	**12.37**	15 41 42.72	2.88	336 46 24.80	43.20	23.82	15 43 41.4	41.8	+ 0.8
10	κ Serpentis	9	44 34.93	0.02	**12.42**	15 44 22.53	2.86	339 29 18.60	35.58	20.76	18 26 38.2	37.2	+ 0.4
11	ζ Ursæ Minoris	9	47 48.14	0.81	12.42	15 47 36.53	3.55	39 7 25.58	43.45	45.28	78 5 51.1	50.8	− 5.4
12	B. D.+38° 2712	9	52 28.66	+ 0.11	−12.43	15 52 16.34	− 2.73	359 16 9.65	27.70	0.67	+38 13 49.5	49.4	− 1.9
13	δ Scorpii	9	54 48.43	− 0.14	−12.43	15 54 35.86	− 3.63	298 43 23.00	39.22	100.95	22 20 37.3	39.3	+ 3.4
14	θ Draconis	9	0 18.01	+ 0.27	12.43	16 0 5.85	− 2.76	19 51 38.40	57.30	20.14	+58 49 39.0	39.7	− 4.0
15	151 H^1. Cephei s. p	9	5 51.69	− 2.08	12.43	4 5 37.18	+ 2.77	55 43 13.22	32.20	81.54	85 17 43.6	43.0	+ 5.9
16	σ^2 Coronæ Borealis	9	11 15.63	+ 0.09	**12.45**	16 11 3.29	− 2.77	355 8 49.75	7.98	4.69	+34 6 25.4	25.6	− 1.8
17	ε Ophiuchi	9	13 23.82	− 0.06	**12.43**	16 13 11.33	3.23	316 35 57.80	17.08	52.51	− 4 27 14.2	13.0	+ 0.7
18	γ Herculis	9	17 51.11	+ 0.03	**−12.44**	16 17 38.70	− 2.90	340 25 39.28	57.45	19.75	+19 22 59.9	60.1	− 0.9
19	η Ursæ Minoris	9	20 37.20	+ 0.68	−12.44	16 20 25.44	− 3.54	37 0 33.92	51.85	42.01	+75 58 56.2	56.0	− 4.7
20	α Scorpii	9	23 40.27	− 0.16	12.44	16 23 27.67	3.78	294 51 24.25	42.70	119.30	−26 12 54.4	54.2	+ 0.8
21	β Herculis	9	26 15.70	+ 0.04	**12.48**	16 26 3.30	2.89	342 44 48.85	7.52	17.26	+21 42 12.0	12.6	− 1.3
22	σ Herculis	9	31 11.66	+ 0.14	12.44	16 30 59.36	2.78	3 40 37.75	55.92	3.62	42 38 21.9	21.9	− 2.6
23	35 B. Camelop. s. p.	9	35 51.32	− 0.67	12.44	4 35 38.21	0.04	65 14 35.88	54.10	120.31	75 45 42.8	43.0	+ 5.5
24	η Herculis	9	39 47.21	+ 0.12	−12.44	16 39 34.89	− 2.80	0 8 51.52	9.38	0.18	+39 6 32.2	31.9	− 2.3
25	114 B. Draconis	9	43 41.31	+ 0.25	−12.44	16 43 29.12	− 2.88	17 59 29.08	47.05	18.13	+56 57 27.7	27.5	− 3.2
26	49 Herculis	9	47 52.53	+ 0.01	**12.44**	16 47 40.09	2.97	336 11 3.55	21.80	24.53	15 8 19.4	19.7	1.8
27	κ Ophiuchi	9	53 17.20	− 0.01	**12.42**	16 53 4.74	3.03	330 34 31.55	48.80	31.36	9 31 40.6	39.8	1.9
28	ε Ursæ Minoris	6	56 15.75	+ 1.24	12.45	16 56 4.54	5.11	43 13 25.35	50.40	52.40	82 11 58.3	60.3	4.1
29	d Herculis	9	58 14.43	+ 0.09	**12.44**	16 58 2.07	− 2.84	354 45 2.38	22.00	5.08	33 42 37.6	39.3	− 2.4
30	19 H. Camelop. s. p.	9	6 36.52	− 0.89	−12.45	5 6 23.18	+ 0.69	61 53 29.40	48.08	104.05	+79 7 5.4	5.2	+ 4.5

1902 JUNE 4. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

31	12 Canum Venat.	9	51 41.99	+ 0.23	−**13.46**	12 51 28.71	− 2.08	359 53 10.32	28.98	0.07	+38 50 50.7	51.0	+ 0.4
32	43 H. Cephei s. p	8	55 36.06	− 4.19	13.51	0 55 18.36	2.76	55 17 14.80	33.00	79.25	+85 43 45.0	45.5	8.3
33	γ Hydræ	9	13 52.24	0.21	13.52	13 13 38.51	2.98	298 24 27.25	45.35	101.16	−22 39 33.2	33.7	17.4
34	α Ursæ Minoris s. p.	9	23 52.61	−14.72	13.52	1 23 24.37	1.98	52 14 12.74	31.59	71.04	+88 46 55.2	55.3	+ 8.3
35	25 Canum Venat.	9	33 22.04	+ 0.21	**13.54**	13 33 8.73	2.27	357 49 58.12	16.38	2.05	+36 47 36.2	36.2	0.0
36	m Virginis	9	36 44.51	− 0.10	−**13.56**	13 36 30.89	− 2.82	312 50 35.25	54.88	59.25	− 8 12 43.6	42.4	+12.1
37	τ Bootis	9	42 52.28	+ 0.06	−**13.55**	13 42 38.82	− 2.48	338 59 19.50	37.00	21.13	+17 56 38.6	37.7	+ 4.6
38	89 Virginis	9	44 49.44	− 0.17	13.52	13 44 35.75	3.04	303 24 44.65	3.12	83.24	−17 38 58.2	58.2	+13.9
39	B. D.+40° 2701	9	47 51.92	+ 0.24	13.52	13 47 38.64	2.31	1 11 34.32	53.20	1.19	+40 9 15.8	16.2	0.9
40	η Bootis	9	50 17.08	+ 0.07	**13.52**	13 50 3.63	2.51	339 55 56.32	14.58	20.10	18 53 16.4	16.3	+ 4.3
41	τ Virginis	9	56 55.80	− 0.04	**13.50**	13 56 42.24	2.76	323 4 0.90	20.75	41.40	2 0 59.7	61.2	+ 8.2
42	α Draconis	9	1 59.29	+ 0.65	−13.52	14 1 46.42	− 2.24	25 52 37.10	56.08	26.82	+64 50 44.0	44.6	− 5.8
43	d Bootis	9	6 11.68	+ 0.12	−13.52	14 5 58.28	− 2.50	346 35 51.90	11.72	13.11	+25 33 18.8	20.3	+ 2.0
44	4 Ursæ Minoris	9	9 28.11	+ 1.46	13.52	14 9 16.05	2.43	39 2 10.20	29.02	44.80	+78 0 34.8	35.2	− 7.3
45	λ Virginis	9	14 5.10	− 0.14	**13.56**	14 13 51.44	3.09	308 8 8.28	26.88	70.10	−12 55 21.7	21.5	+10.7
46	θ Bootis	9	22 7.15	+ 0.38	13.52	14 21 54.01	2.36	13 20 23.35	42.12	13.14	+52 18 16.5	16.8	− 3.6
47	γ Bootis	9	28 23.69	0.22	**13.50**	14 28 10.38	2.47	359 46 35.18	53.80	0.18	38 44 14.7	15.2	1.5
48	33 Bootis	9	35 27.08	+ 0.28	−13.53	14 35 13.83	− 2.44	5 51 55.42	13.78	5.72	+44 49 41.0	41.0	− 2.6
49	109 Virginis	9	41 34.10	− 0.04	−**13.52**	14 41 20.53	− 2.91	323 21 17.08	36.02	41.06	+ 2 18 15.9	16.5	+ 5.6
50	α Libræ	9	45 44.31	− 0.15	**13.58**	14 45 30.63	3.27	305 25 24.42	43.60	77.47	−15 38 13.2	12.3	8.9
51	61 B. Draconis	9	49 12.61	+ 0.51	13.53	14 48 59.59	2.47	20 43 34.80	54.30	20.98	+59 41 35.5	36.7	5.0
52	47 H. Cephei s. p.	9	53 17.98	− 1.57	13.53	2 53 2.88	0.66	61 58 49.80	7.65	103.71	79 1 46.1	46.9	7.9
53	β Bootis	9	58 31.05	+ 0.24	13.53	14 58 17.76	2.56	1 48 57.32	15.00	1.79	40 46 38.8	38.2	2.2
54	1 H. Ursæ Minoris	9	13 46.28	+ 0.73	−13.53	15 13 33.48	− 2.70	28 44 3.50	22.10	30.44	+67 43 13.4	13.7	5.6

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	cm.	°	°
2	15	26	.....	....	21.6
	16	2	76.00	22.3	21.3
	16	30	.....	....	21.0
	17	3	75.96	21.8	20.8
4	12	48	75.66	24.6	23.6
	13	22	.....	....	23.2
	13	52	75.74	23.8	22.8
	14	31	.....	....	22.2
	15	1	75.75	23.0	21.8

Bisections are made at II and V, except as noted below.

3, 6, 7, 11, 12, 14, 19, 22, 24, 25, 39, 42, 44, 46, 48, 51, 53, 54.	Bisections at III, V.
15, 23, 30, 52.	Bisections at V, III.
28.	Bisections at c_1, VII.
32.	Bisections at c_5, c_1.
34.	Bisections at c_5, c_4, c_2, c_1.

Notes.

1–12.	Seeing 3.
1, 4, 8, 35.	Observed head north.
6, 7, 12, 39.	Observed head south.
13–54.	Seeing 4.
41.	Circle A read on 2′ division.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–30, from nadir	+2 25.65	7.34
31–54, from nadir	*	*

*Interpolated from diagram.

NO.	NAME.		THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T - m$	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		B. D.+41° 2592	9	16 44.37	+ 0.24	13.53	15 16 31.08	— 2.61	2 22 18.35	38.25	2.34	+41 20 0.2	1.9	— 2.5
2	μ	Bootis	9	21 3.25	0.21	**13.52**	15 20 49.93	2.64	358 45 38.58	57.08	1.16	37 43 16.7	17.2	2.1
3	ι	Draconis	9	23 0.58	0.49	13.53	15 22 47.54	2.64	20 20 37.35	56.20	20.61	59 18 37.4	38.0	4.8
4	ν¹	Bootis	8	27 40.45	+ 0.24	13.54	15 27 27.15	2.64	2 12 21.18	40.15	2.18	+41 10 2.8	3.6	— 2.6
5	γ	Libræ	9	30 19.62	— 0.14	**13.52**	15 30 5.94	3.38	306 35 43.60	3.60	74.48	—14 27 51.3	49.6	+ 4.9
6		B. D.+38° 2678	9	32 27.76	+ 0.21	13.54	15 32 14.43	— 2.67	359 44 18.78	36.72	0.21	+38 41 57.8	57.7	— 2.3
7	ζ	Coronæ Borealis	9	35 57.28	+ 0.20	13.54	15 35 43.94	— 2.69	357 59 38.10	56.68	1.91	+36 57 15.4	16.0	— 2.1
8		B. D.+39° 2901	9	38 6.82	0.21	13.54	15 37 53.49	2.69	359 54 41.65	0.68	0.05	38 52 21.0	21.8	— 2.4
9	β	Serpentis	9	41 56.24	0.04	**13.50**	15 41 42.74	2.89	336 46 25.98	45.68	23.79	15 43 41.5	43.1	+ 0.4
10	κ	Serpentis	9	44 36.02	0.06	**13.54**	15 44 22.54	2.87	339 29 20.65	37.35	20.74	18 26 39.2	37.8	0.0
11	ζ	Ursæ Minoris	9	47 48.64	1.39	13.54	15 47 36.49	3.48	39 7 27.58	45.65	45.22	78 5 52.0	51.7	— 6.0
12		B. D.+38° 2712	9	52 29.72	+ 0.21	—13.54	15 52 16.39	— 2.73	359 16 12.02	30.20	0.67	+38 13 50.4	50.6	— 2.5
13	δ	Scorpii	9	54 49.66	— 0.20	13.54	15 54 35.92	— 3.64	298 43 23.10	41.48	100.83	—22 20 38.3	38.2	+ 3.5
14	θ	Draconis	9	0 18.92	+ 0.47	13.54	16 0 5.85	— 2.75	19 51 41.60	0.12	20.12	+58 49 40.9	41.2	— 4.6
15	151	H¹. Cephei S. P	9	5 54.49	— 3.52	13.54	4 5 37.43	+ 2.54	55 43 15.80	34.50	81.49	85 17 42.4	42.1	+ 6.5
16	σ²	Coronæ Borealis	9	11 16.70	+ 0.17	**13.59**	16 11 3.33	2.78	355 8 52.75	11.50	4.69	+34 6 27.0	27.8	— 2.4
17	ε	Ophiuchi	9	13 24.99	— 0.08	**13.57**	16 13 11.36	3.24	316 35 59.75	19.58	52.52	— 4 27 13.6	11.9	+ 0.6
18	γ	Herculis	9	17 52.19	+ 0.06	—**13.53**	16 17 38.70	— 2.92	340 25 42.25	59.95	19.76	+19 23 1.5	1.2	— 1.3
19	η	Ursæ Minoris	9	20 37.77	+ 1.14	13.55	16 20 25.36	— 3.51	37 0 36.82	54.40	42.04	+75 58 57.7	57.1	— 5.3
20	α	Scorpii	9	23 41.52	— 0.22	13.55	16 23 27.75	3.80	294 51 25.62	44.28	119.45	—26 12 54.6	54.2	+ 0.9
21	β	Herculis	9	26 16.79	+ 0.08	**13.59**	16 26 3.32	2.91	342 44 51.22	9.90	17.28	+21 42 12.8	13.6	— 1.7
22	σ	Herculis	9	31 12.66	+ 0.24	13.55	16 30 59.35	2.79	3 40 39.48	58.65	3.63	42 38 22.1	23.2	— 3.3
23	35	B. Camelop. S. P	9	35 52.88	— 1.09	13.55	4 35 38.24	0.09	65 14 37.38	56.10	120.60	75 45 42.6	42.2	+ 6.2
24	η	Herculis	9	39 48.32	+ 0.20	—12.55	16 39 34.97	— 2.81	0 8 54.10	12.05	0.18	+39 6 33.2	33.1	— 2.9
25	114	B. Draconis	9	43 42.26	+ 0.41	13.55	16 43 29.12	— 2.89	17 59 31.32	49.52	18.18	+56 57 28.3	28.4	— 3.9
26	49	Herculis	9	47 53.66	+ 0.03	**13.57**	16 47 40.14	2.99	336 11 5.55	24.18	24.59	15 8 19.7	20.6	2.2
27	κ	Ophiuchi	9	53 18.33	0.00	**13.53**	16 53 4.77	3.06	330 34 34.08	51.18	31.45	9 31 41.4	40.5	2.3
28	ε	Ursæ Minoris	7	56 16.64	+ 1.95	13.56	16 56 5.03	5.11	43 13 28.58	53.12	52.54	82 12 0.0	1.5	4.7
29	d	Herculis	9	58 15.51	+ 0.15	**13.56**	16 58 2.10	— 2.86	354 45 4.28	24.60	5.09	33 42 37.7	40.2	— 3.0
30	19	H. Camelop. S. P	9	6 38.21	1.36	—13.56	5 6 23.29	+ 0.65	61 53 32.12	51.08	104.35	+79 7 4.2	3.6	+ 5.0

1902 JUNE 5. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T - m$	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
31	12	Canum Venat.	9	51 42.25	+ 0.21	**13.72**	12 51 28.77	— 2.06	0 1 52.90	13.22	0.07	+38 50 51.8	52.9	+ 0.3
32	43	H. Cephei S. P	8	55 35.58	— 3.36	13.69	0 55 18.53	3.03	304 37 52.30	12.40	80.68	+85 43 46.4	45.4	8.4
33	γ	Hydræ	9	13 52.27	0.09	13.69	13 13 38.49	2.97	61 30 35.18	56.60	102.97	—22 39 32.9	33.3	17.4
34	α	Ursæ Minoris S. P.	8	23 50.74	—11.81	13.69	1 23 25.24	3.00	307 40 54.02	13.95	72.33	+88 46 56.0	55.3	+ 8.3
35	25	Canum Venat.	9	33 22.23	+ 0.19	**13.72**	13 33 8.73	2.26	2 5 7.35	28.50	2.08	+36 47 35.7	35.6	— 0.1
36	m	Virginis	9	36 44.55	— 0.03	—**13.67**	13 36 30.83	— 2.82	47 4 27.55	47.72	60.33	— 8 12 42.6	41.8	+12.1
37	τ	Bootis	9	42 52.37	+ 0.09	—**13.68**	13 42 38.77	— 2.47	20 55 45.02	6.42	21.52	+17 56 38.6	38.2	+ 4.5
38	89	Virginis	9	44 49.44	— 0.07	13.69	13 44 35.68	3.04	56 30 20.05	40.30	84.76	—17 38 59.5	58.8	+13.9
39		B. D. +40° 2701	9	47 52.15	+ 0.22	13.69	13 47 38.68	2.30	358 43 28.42	49.55	1.21	+40 9 17.8	17.8	— 1.1
40	η	Bootis	9	50 17.22	0.09	**13.69**	13 50 3.62	2.50	19 59 7.85	29.25	20.47	18 53 16.8	16.5	+ 4.2
41	τ	Virginis	9	56 55.87	0.02	**13.63**	13 56 42.20	2.76	36 51 2.78	23.25	42.18	2 1 0.3	0.8	+ 8.1
42	α	Draconis	9	1 59.53	+ 0.54	—13.69	14 1 46.38	— 2.20	334 2 26.68	48.32	27.32	+64 50 45.8	45.0	— 6.0
43	d	Bootis	9	6 11.85	+ 0.13	—13.69	14 5 58.29	— 2.49	13 19 12.30	32.35	13.37	+25 33 19.5	20.4	+ 1.9
44	4	Ursæ Minoris	9	9 28.51	+ 1.18	13.69	14 9 16.00	2.36	320 52 54.58	14.95	45.67	+78 0 36.1	36.6	— 7.5
45	λ	Virginis	9	14 5.09	— 0.05	**13.65**	14 13 51.35	3.08	51 46 57.60	17.58	71.48	—12 55 23.7	22.8	+10.7
46	θ	Bootis	9	22 7.39	+ 0.33	13.69	14 21 54.03	2.34	346 34 40.28	2.50	13.41	+52 18 18.4	17.0	— 3.9
47	γ	Bootis	9	28 23.94	0.21	**13.75**	14 28 10.46	2.46	0 8 30.65	50.88	0.18	38 44 14.3	15.1	1.7
48	33	Bootis	9	35 27.31	+ 0.25	—13.69	14 35 13.87	— 2.43	354 3 8 30	29.98	5.84	+44 49 42.9	42.0	— 2.9
49	109	Virginis	9	41 34.19	+ 0.02	—**13.67**	14 41 20.52	— 2.91	36 33 46.85	8.30	41.92	+ 2 18 16.7	16.0	+ 5.5
50	α	Libræ	9	45 44.37	— 0.06	**13.72**	14 45 30.62	3.28	54 29 39.90	59.58	79.12	—15 38 13.5	13.5	+ 8.9
51	61	B. Draconis	9	49 12.88	+ 0.43	13.69	14 48 59.62	2.46	339 11 28.85	49.12	21.43	+59 41 38.0	38.5	— 5.3
52	47	H. Cephei S. P	9	53 17.97	— 1.30	13.69	2 53 2.98	0.74	297 56 20.10	39.45	105.95	79 1 48.1	47.0	+ 8.2
53	β	Bootis	9	58 31.31	+ 0.22	13.69	14 58 17.84	2.56	358 6 8.35	29.32	1.83	40 46 39.0	38.7	— 2.4
54	1	H. Ursæ Minoris.	9	13 46.49	+ 0.62	—13.69	15 13 33.42	— 2.68	331 10 3.45	23.85	31.09	+67 43 13.0	13.3	— 5.8

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
4 15 29	.....	....	21.0
16 2	75.77	22.0	20.8
16 33	.....	....	19.6
17 4	75.78	20.6	19.3
5 12 45	76.15	22.0	20.5
13 22	.....	....	20.0
13 53	76.20	20.7	19.3
14 33	.....	....	18.2
14 56	76.24	19.3	17.7

Bisections are made at II and V, except as noted below.

1, 3, 4, 8, 11, 14, 19, 22, 24, 25, 35, 42, 44, 46, 48, 51, 53, 54. } Bisections at III, V.
15, 23, 30, 52. Bisections at V, III.
28. Bisections at c_1, VII.
32. Bisections at c_5, c_1.
34. Bisections at c_5, c_4, c_2, c_1.

Notes.
1–54. Seeing 4.
1, 4, 8, 35. Observed head south.
6, 7, 12, 39. Observed head north.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–30, from nadir	*	*
31–54, from nadir	*	6.83

*Interpolated from diagram.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		B. D. +41° 2592	9	16 44.58	+0.22	13.69	15 16 31.11	- 2.61	357 32 42.78	5.45	2.38	+41 20 4.9	3.1	— 2.7
2	μ	Bootis	9	21 3.45	0.20	**13.71**	15 20 49.96	2.64	1 9 26.38	47.65	1.18	37 43 17.8	17.3	2.3
3	ι	Draconis	9	23 0.82	0.43	13.69	15 22 47.56	2.63	339 34 27.70	47.02	21.04	59 18 38.9	40.1	5.0
4	ν¹	Bootis	9	27 40.68	+0.22	13.69	15 27 27.21	2.64	357 42 41.75	3.32	2.22	+41 10 5.8	5.0	— 2.9
5	γ	Libræ	9	30 19.69	—0.05	**13.67**	15 30 5.95	3.39	53 19 20.32	41.25	75.99	—14 27 50.6	51.0	+ 4.9
6		B. D. +38° 2678	9	32 27.96	+0.21	—13.69	15 32 14.48	- 2.67	0 10 46.90	7.58	0.22	+38 41 58.5	58.4	— 2.6
7	ζ	Coronæ Borealis	9	35 57.44	+0.19	—13.69	15 35 43.94	- 2.69	1 55 27.72	49.25	1.94	+36 57 16.0	15.0	— 2.4
8		B. D. +39° 2901	9	38 6.93	0.21	13.69	15 37 53.45	2.68	0 0 23.65	43.30	0.05	38 52 21.9	22.8	— 2.7
9	β	Serpentis	9	41 56.35	0.08	**13.65**	15 41 42.74	2.89	23 8 37.65	59.55	24.27	15 43 43.7	42.4	+ 0.2
10	κ	Serpentis	9	44 36.14	0.09	**13.69**	15 44 22.54	2.87	20 25 44.22	6.10	21.15	18 26 40.2	38.9	— 0.2
11	ζ	Ursæ Minoris	9	47 49.01	1.19	13.69	15 47 36.51	3.44	320 47 39.88	0.20	46.13	78 5 51.6	51.8	6.3
12		B. D. +38° 2712	9	52 29.91	+0.20	-13.69	15 52 16.42	- 2.72	0 38 54.62	15.05	0.68	+38 13 50.4	50.4	— 2.7
13	δ	Scorpii	9	54 49.66	—0.09	-13.69	15 54 35.88	— 3.65	61 11 39.60	0.30	102.85	—22 20 36.6	36.9	+ 3.5
14	θ	Draconis	9	0 19.08	+0.42	13.70	16 0 5.80	- 2.74	340 3 23.80	43.95	20.52	+58 49 42.4	42.6	— 4.9
15	151	H¹. Cephei S. P.	9	5 54.33	—3.05	13.70	4 5 37.58	+ 2.39	304 11 51.62	11.58	83.12	85 17 41.7	41.4	+ 6.8
16	σ²	Coronæ Borealis	9	11 16.90	+0.18	**13.80**	16 11 3.37	— 2.78	4 46 14.12	34.52	4.78	+34 6 26.7	26.8	— 2.6
17	ε	Ophiuchi	9	13 25.08	—0.01	**13.72**	16 13 11.36	3.25	43 19 5.72	27.02	53.52	— 4 27 13.4	14.3	+ 0.5
18	γ	Herculis	9	17 52.33	+0.10	—**13.71**	16 17 38.72	— 2.92	19 29 24.52	45.25	20.13	+19 23 1.0	0.8	— 1.5
19	η	Ursæ Minoris	9	20 38.06	+1.01	—13.72	16 20 25.35	- 3.49	322 54 30.78	51.78	42.81	+75 58 57.6	56.9	— 5.6
20	α	Scorpii	9	23 41.51	0.11	13.72	16 23 27.68	3.81	65 3 35.78	57.28	121.60	—26 12 51.4	52.6	+ 0.9
21	β	Herculis	9	26 16.88	+0.11	**13.71**	16 26 3.27	2.91	17 10 15.02	35.70	17.59	+21 42 13.1	12.9	- 1.9
22	σ	Herculis	9	31 12.89	+0.24	13.73	16 30 59.40	2.79	356 14 24.92	46.32	3.69	42 38 24.6	23.5	— 3.6
23	35	B. Camelop. S. P.	9	35 53.01	—0.99	13.74	4 35 38.28	0.11	294 40 29.82	50.60	122.67	75 45 40.9	41.5	+ 6.3
24	η	Herculis	9	39 48.51	+0.21	-13.74	16 39 34.98	- 2.82	359 46 13.20	33.18	0.19	+39 6 32.8	33.2	— 3.1
25	114	B. Draconis	9	43 42.47	+0.39	13.75	16 43 29.11	— 2.89	341 55 34.58	56.52	18.49	+56 57 29.7	28.1	— 4.2
26	49	Herculis	9	47 53.77	0.07	**13.71**	16 47 40.09	3.00	23 43 57.50	20.02	25.02	15 8 23.3	21.2	2.4
27	κ	Ophiuchi	9	53 18.48	0.05	**13.72**	16 53 4.77	3.07	29 20 33.90	52.78	31.98	9 31 40.0	41.4	2.5
28	ε	Ursæ Minoris	7	56 16.81	1.83	13.77	16 56 4.87	5.09	316 41 37.02	53.30	53.45	82 12 2.4	1.4	5.0
27	d	Herculis	9	58 15.74	+0.17	**13.81**	16 58 2.13	- 2.86	5 10 0.98	20.95	5.18	33 42 39.6	40.0	- 3.3
30	19	H. Camelop. S. P.	9	6 38.30	—1.31	—13.79	5 6 23.20	+ 0.61	298 1 36.15	56.02	106.15	+79 7 3.5	3.3	+ 5.3

1902 JUNE 6. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
31	12	Canum Venat.	9	51 42.69	+0.15	—**14.11**	12 51 28.78	— 2.05	0 1 52.68	13.30	0.07	+38 50 52.0	52.5	+ 0.1
32	43	H. Cephei S. P.	8	55 35.85	2.42	14.06	0 55 19.37	3.31	304 37 50.92	11.45	80.02	+85 43 45.7	45.4	8.5
33	γ	Hydræ	9	13 52.69	0.06	14.07	13 13 38.56	2.96	61 30 36.50	56.92	102.16	—22 39 33.5	33.1	17.4
34	α	Ursæ Minoris S. P.	9	23 50.42	—8.52	14.07	1 23 27.83	4.00	307 40 52.88	12.89	71.76	+88 46 55.6	55.2	+ 8.5
35	25	Canum Venat.	9	33 22.61	+0.14	**14.06**	13 33 8.67	2.25	2 5 5.68	27.80	2.07	+36 47 37.1	36.0	— 0.3
36	m	Virginis	9	36 44.93	—0.01	**14.08**	13 36 30.84	2.81	47 4 27.70	48.35	59.85	— 8 12 42.4	42.3	+12.0
37	τ	Bootis	9	42 52.82	+0.07	—**14.12**	13 42 38.80	— 2.46	20 55 44.72	6.70	21.34	+17 56 38.9	37.8	- 4.3
38	89	Virginis	9	44 49.86	—0.04	14.09	13 44 35.73	3.03	56 30 20.10	40.65	84.06	—17 38 59.0	58.8	+13.9
39		B. D. +40° 2701	9	47 52.54	+0.16	14.09	13 47 38.61	2.28	358 43 28.60	50.05	1.20	+40 9 17.7	17.0	— 1.3
40	η	Bootis	9	50 17.60	0.07	**14.06**	13 50 3.58	2.49	19 59 8.75	29.15	20.30	18 53 16.0	16.4	+ 4.0
41	τ	Virginis	9	56 56.28	0.02	**14.05**	13 56 42.21	2.75	36 51 3.18	23.78	41.81	2 1 0.1	0.3	+ 8.0
42	α	Draconis	9	2 0.03	+0.39	—14.10	14 1 46.32	— 2.17	334 2 26.00	47.92	27.08	+64 50 46.1	44.9	— 6.2
43	d	Bootis	9	6 12.25	+0.09	—14.10	14 5 58.24	— 2.48	13 19 12.35	32.82	13.24	+25 33 19.4	19.8	+ 1.7
44	4	Ursæ Minoris	9	9 29.11	+0.85	14.10	14 9 15.86	2.29	320 52 53.80	14.22	45.24	+78 0 36.3	36.6	— 7.7
45	λ	Virginis	9	14 5.58	—0.03	**14.16**	14 13 51.45	3.08	51 46 58.40	18.30	70.79	—12 55 23.9	23.2	+10.7
46	θ	Bootis	9	22 7.87	+0.24	14.11	14 21 54.00	2.33	346 34 40.18	2.08	13.27	+52 18 18.2	17.0	— 4.1
47	γ	Bootis	9	28 24.40	0.15	**14.16**	14 28 10.44	2.45	0 8 30.25	50.92	0.18	38 44 14.5	14.7	1.9
48	33	Bootis	9	35 27.78	+0.18	—14.11	14 35 13.85	— 2.42	354 3 7.38	29.40	5.77	+44 49 43.6	42.2	— 3.1
49	109	Virginis	9	41 34.61	+0.02	—**14.09**	14 41 20.51	— 2.91	36 33 46.90	9.28	41.45	+ 2 18 16.9	15.2	+ 5.4
50	α	Libræ	9	45 44.79	—0.04	**14.16**	14 45 30.63	3.28	54 29 40.50	1.58	78.18	—15 38 13.4	13.8	+ 8.9
51	61	B. Draconis	9	49 13.41	+0.31	14.13	14 48 59.59	2.44	339 11 28.50	48.50	21.17	+59 41 37.8	38.4	- 5.5
52	47	H. Cephei S. P.	9	53 18.23	—0.94	14.13	2 53 3.16	0.83	297 56 17.62	38.38	104.70	79 1 47.1	47.4	+ 8.3
53	β	Bootis	9	58 31.79	+0.16	14.13	14 58 17.82	2.55	358 6 7.58	28.78	1.81	40 46 39.5	38.9	- 2.7
54	1	H. Ursæ Minoris	9	13 47.04	+0.44	-14.14	15 13 33.34	- 2.65	331 10 2.80	22.90	30.71	+67 43 13.1	13.5	6.2

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
5 15 34	.....	....	17.1
16 3	76.22	18.0	16.8
16 33	.....	....	16.5
17 3	76.24	17.5	16.2
6 12 54	75.97	23.4	22.0
13 21	.....	....	21.3
13 58	75.96	22.0	20.7
14 30	.....	....	20.3
14 56	75.94	21.0	20.0

Bisections are made at II and V, except as noted below.

3, 6, 7, 8, 11, 12, 14, 17, 19, 22, 24, 25, 39, 42, 44, 46, 48, 51, 53, 54. Bisections at III, V.
15, 23, 30, 52. Bisections at V, III.
28. Bisections at c_1, VII.
32. Bisections at c_5, c_1.
34. Bisections at c_5, c_4, c_2, c_1.

Notes.

1–30, 54.	Seeing 4.
1, 4, 8, 35.	Observed head north.
6, 7, 12, 39.	Observed head south.
31–53.	Seeing 3.

Adopted Zenith Point Corrections.

	A.	B.
	″	″
1–30, from nadir......	*	6.83
31–54, from nadir......	*	7.13

*Interpolated from diagram.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	B. D. +41° 2592	9	16 45.12	+ 0.16	−14.14	15 16 31.14	− 2.60	357 32 44.15	5.78	2.36	+41 20 3.5	2.4	− 3.0
2	μ Bootis	9	21 3.94	0.14	**14.15**	15 20 49.93	2.63	1 9 27.00	46.95	1.17	37 43 16.9	17.7	2.6
3	ι Draconis	9	23 1.33	0.31	14.15	15 22 47.49	2.61	339 34 27.60	46.70	20.79	59 18 38.4	39.9	5.3
4	ν^1 Bootis	9	27 41.19	+ 0.16	14.15	15 27 27.20	2.63	357 42 41.98	3.65	2.20	+41 10 5.5	4.4	− 3.2
5	γ Libræ	9	30 20.09	− 0.03	**14.09**	15 30 5.91	3.39	53 19 21.75	42.65	75.09	−14 27 51.4	51.8	+ 4.9
6	B. D. +38° 2678	9	32 28.41	+ 0.15	14.15	15 32 14.41	− 2.67	0 10 46.18	6.48	0.22	+38 41 58.7	59.2	− 2.8
7	ζ Coronæ Borealis	9	35 57.89	+ 0.14	−14.15	15 35 43.88	− 2.69	1 55 27.20	48.48	1.92	+36 57 16.0	15.4	− 2.6
8	B. D. +39° 2901	9	38 7.46	0.15	14.15	15 37 53.46	2.68	0 0 23.45	43.50	0.05	38 52 21.9	22.3	− 2.9
9	β Serpentis	9	41 56.84	0.06	**14.12**	15 41 42.74	2.89	23 8 38.40	59.45	23.98	15 43 42.9	42.5	0.0
10	κ Serpentis	9	44 36.60	0.07	**14.13**	15 44 22.51	2.87	20 25 45.00	6.72	20.89	18 26 39.4	38.3	− 0.4
11	ζ Ursæ Minoris	9	47 49.61	0.86	14.16	15 47 36.31	3.40	320 47 39.00	58.12	45.58	78 5 51.6	53.0	6.6
12	B. D. +38° 2712	9	52 30.41	+ 0.15	−14.16	15 52 16.40	− 2.72	0 38 53.70	13.98	0.67	+38 13 50.8	51.2	− 3.0
13	δ Scorpii	9	54 50.12	− 0.06	14.17	15 54 35.89	− 3.66	61 11 41.70	1.55	101.63	−22 20 37.8	37.2	+ 3.5
14	θ Draconis	9	0 19.65	+ 0.30	14.17	16 0 5.78	− 2.73	340 3 22.88	43.22	20.28	+58 49 42.7	42.8	− 5.2
15	151 H^1. Cephei S. P.	9	5 54.40	− 2.20	14.17	4 5 38.03	+ 2.23	204 11 49.40	10.38	82.10	85 17 40.8	41.5	+ 7.0
16	σ^2 Coronæ Borealis	9	11 17.36	+ 0.13	**14.21**	16 11 3.32	− 2.78	4 46 13.95	34.82	4.72	+34 6 26.6	26.3	− 2.9
17	ε Ophiuchi	9	13 25.52	0.00	**14.16**	16 13 11.35	3.26	43 19 6.90	27.08	52.85	− 4 27 14.3	14.0	+ 0.4
18	γ Herculis	9	17 52.82	+ 0.07	**−14.17**	16 17 38.71	− 2.92	19 29 24.28	44.95	19.87	+19 23 1.2	1.1	− 1.7
19	η Ursæ Minoris	9	20 38.71	+ 0.73	−14.18	16 20 25.26	− 3.47	322 54 29.38	50.40	42.26	+75 58 58.1	57.5	− 6.0
20	α Scorpii	9	23 41.96	− 0.07	14.18	16 23 27.71	3.82	65 3 38.18	0.00	120.00	−26 12 52.5	54.0	+ 0.9
21	β Herculis	9	26 17.40	+ 0.08	**14.19**	16 26 3.30	2.92	17 10 14.32	36.15	17.36	+21 42 13.7	12.4	− 2.1
22	σ Herculis	9	31 13.41	0.17	14.19	16 30 59.39	2.79	356 14 24.88	45.90	3.64	42 38 24.2	23.6	3.9
23	η Herculis	9	39 49.03	0.15	14.19	16 39 34.99	2.82	359 46 11.92	32.78	0.18	39 6 33.8	33.2	3.4
24	114 B. Draconis	9	43 43.02	+ 0.28	−14.19	16 43 29.11	− 2.89	341 55 34.05	55.02	18.23	+56 57 29.6	29.0	− 4.5
25	49 Herculis	9	47 54.29	+ 0.06	**−14.22**	16 47 40.16	− 3.00	23 43 57.30	19.55	24.67	+15 8 23.5	21.7	− 2.6
26	κ Ophiuchi	9	53 18.92	0.04	**14.14**	16 53 4.76	3.08	29 20 33.00	52.22	31.52	9 31 41.0	42.2	2.7
27	ε Ursæ Minoris	7	56 17.59	1.32	14.20	16 56 4.71	5.07	316 41 35.55	51.72	52.65	82 12 2.1	1.8	5.3
28	d Herculis	9	58 16.21	+ 0.13	**14.23**	16 58 2.14	− 2.87	5 10 0.05	20.65	5.10	33 42 40.2	40.1	− 3.6
29	19 H. Camelop. S. P.	9	6 38.60	− 0.94	−14.21	5 6 23.45	+ 0.59	298 1 34.35	54.00	104.55	+79 7 3.7	3.2	+ 5.6

1902 JUNE 8. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
30	12 Canum Venat.	9	51 47.56	+ 0.20	**−19.06**	12 51 28.70	− 2.02	0 1 51.15	12.70	0.07	+38 50 52.3	52.5	− 0.2
31	43 H. Cephei S. P.	9	55 42.22	− 3.19	19.06	0 55 19.97	3.87	304 37 49.58	11.50	80.11	+85 43 45.4	46.0	+ 8.7
32	γ Hydræ	9	13 57.61	0.08	19.06	13 13 38.47	2.95	61 30 35.48	58.20	102.33	−22 39 33.8	35.2	17.4
33	α Ursæ Minoris S. P.	9	23 59.67	−11.19	19.06	1 23 29.42	5.86	307 40 51.62	12.49	71.89	+88 46 55.4	55.2	+ 8.7
34	25 Canum Venat.	9	33 27.59	+ 0.18	**19.11**	13 33 8.71	2.22	2 5 5.72	28.05	2.07	+36 47 36.1	35.2	− 0.7
35	m Virginis	9	36 49.90	− 0.02	**−19.05**	13 36 30.82	− 2.80	47 4 26.42	47.80	59.97	− 8 12 42.4	42.4	+11.9
36	τ Bootis	9	42 57.76	+ 0.08	**−19.08**	13 42 38.78	− 2.45	20 55 42.52	6.32	21.38	+17 56 39.9	37.6	+ 4.0
37	89 Virginis	9	44 54.86	− 0.06	19.06	13 44 35.74	3.02	56 30 18.95	40.70	84.20	−17 38 59.1	59.5	+13.9
38	B. D. +40° 2701	9	47 57.52	+ 0.20	19.06	13 47 38.66	2.26	358 43 26.32	48.40	1.20	+40 9 18.6	18.1	− 1.7
39	η Bootis	9	50 22.58	0.09	**19.07**	13 50 3.61	2.48	19 59 6.80	27.90	20.33	18 53 16.7	17.1	+ 3.7
40	τ Virginis	9	57 1.26	0.02	**19.04**	13 56 42.22	2.74	36 51 1.68	22.75	41.88	2 1 0.4	0.7	+ 7.9
41	α Draconis	9	2 4.79	+ 0.51	−19.06	14 1 46.24	− 2.11	334 2 24.20	46.90	27.13	+64 50 46.8	45.4	− 6.6
42	d Bootis	9	6 17.18	+ 0.12	−19.06	14 5 58.24	− 2.47	13 19 10.70	32.10	13.26	+25 33 19.9	19.9	+ 1.4
43	4 Ursæ Minoris	9	9 33.56	+ 1.12	19.06	14 9 15.62	2.14	320 52 51.75	13.55	45.33	+78 0 37.2	36.8	− 8.1
44	λ Virginis	9	14 10.52	− 0.04	**19.10**	14 13 51.42	3.07	51 46 56.20	17.12	70.96	−12 55 23.1	22.7	+10.6
45	θ Bootis	9	22 12.67	+ 0.31	19.06	14 21 53.92	2.30	346 34 38.15	1.55	13.30	+52 18 19.1	17.0	− 4.6
46	γ Bootis	9	28 29.26	0.20	**19.09**	14 28 10.40	2.43	0 8 28.78	50.22	0.18	38 44 14.8	14.9	2.4
47	33 Bootis	9	35 32.66	+ 0.24	−19.06	14 35 13.84	− 2.40	354 3 5.78	28.78	5.79	+44 49 44.0	42.3	− 3.6
48	109 Virginis	9	41 39.53	+ 0.02	**−19.02**	14 41 20.49	− 2.90	36 33 45.62	8.15	41.59	+ 2 18 16.8	15.6	+ 5.2
49	α Libræ	9	45 49.68	− 0.06	**19.04**	14 45 30.56	3.27	54 29 38.35	59.95	78.50	−15 38 12.7	13.1	+ 8.8
50	61 B. Draconis	9	49 18.19	+ 0.41	19.06	14 48 59.54	2.40	339 11 26.75	47.52	21.26	+59 41 38.5	39.0	− 6.0
51	47 H. Cephei S. P.	8	53 23.69	− 1.23	19.06	2 53 3.40	1.00	297 56 17.35	37.42	105.15	79 1 47.6	46.6	+ 8.7
52	β Bootis	9	58 36.65	+ 0.21	19.06	14 58 17.80	2.54	358 6 5.80	28.25	1.82	40 46 40.1	38.8	− 3.2
53	1 H. Ursæ Minoris	9	13 51.87	+ 0.58	−19.06	15 13 33.39	2.60	331 10 0.85	21.90	30.86	+67 43 14.0	14.1	− 6.7

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
6 15 34	.....	....	19.4
16 2	75.91	20.3	19.1
16 33	.....	....	19.0
17 3	75.85	19.9	19.0
8 12 55	75.39	20.9	19.5
13 29	.....	....	18.7
13 59	75.44	19.5	18.4
14 30	.....	....	17.8
15 1	75.52	18.5	17.0

Bisections are made at II and V, except as noted below.

1, 3, 4, 8, 11, 14, 19, 22, 23, 24, 34, 41, 43, 45, 47, 50, 52, 53.	Bisections at III, V.
15, 29, 51.	Bisections at V, III.
27.	Bisections at III, VII.
31.	Bisections at c_5, c_1.
33.	Bisections at c_5, c_4, c_2, c_1.

Notes.

1–29.	Seeing 4.
1, 4, 8, 34.	Observed head south.
6, 7, 12, 38	Observed head north.
30–53.	Seeing 3.
44.	Second bisection doubtful.

Adopted Zenith Point Corrections.

	A. ′ ″	B. ″
1–29, from nadir	*	7.13
30–53, from nadir	*	7.70

* Interpolated from diagram.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		B. D.+41° 2592 . .	9	16 49.97	+0.21	—19.06	15 16 31.12	— 2.59	357 32 40.85	4.60	2.37	+41 20 5.4	3.0	— 3.5
2	μ	Bootis	9	21 8.80	0.19	**19.07**	15 20 49.93	2.62	1 9 24.62	46.30	1.18	37 43 18.1	17.8	3.1
3	ι	Draconis	5	23 6.24	0.40	19.06	15 22 47.58	2.59	339 34 25.80	45.85	20.89	59 18 39.4	40.2	5.8
4	ν¹	Bootis	9	27 46.05	+0.21	19.06	15 27 27.20	2.62	357 42 39.50	2.60	2.21	+41 10 6.6	4.9	— 3.7
5	γ	Libræ	9	30 25.07	—0.05	**19.04**	15 30 5.96	3.40	53 19 19.62	41.82	75.49	—14 27 50.8	52.0	+ 4.8
6		B. D.+38° 2678 . .	9	32 33.37	+0.20	—19.06	15 32 14.51	— 2.66	0 10 44.70	5.82	0.22	+38 41 59.3	59.2	— 3.3
7	ζ	Coronæ Borealis . .	9	36 2.83	+0.18	—19.07	15 35 43.94	— 2.68	1 55 25.25	47.80	1.93	+36 57 17.0	15.6	— 3.1
8		B. D.+39° 2901 . .	9	38 12.34	0.20	19.07	15 37 53.47	2.68	0 0 20.68	42.62	0.05	38 52 23.2	22.6	3.4
9	β	Serpentis	9	42 1.73	0.07	**19.02**	15 41 42.73	2.89	23 8 36.20	58.62	24.12	15 43 43.8	42.6	0.4
10	κ	Serpentis	9	44 41.53	0.08	**19.07**	15 44 22.54	2.87	20 25 42.12	5.22	21.03	18 26 41.0	39.1	0.8
11	ζ	Ursæ Minoris	9	47 54.33	1.13	19.07	15 47 36.39	3.32	320 47 37.78	58.30	45.85	78 5 52.0	52.5	7.2
12		B. D.+38° 2712 . .	9	52 35.32	+0.19	—19.07	15 52 16.44	— 2.72	0 38 52.50	13.45	0.68	+38 13 51.1	51.2	— 3.6
13	δ	Scorpii	9	54 55.04	—0.08	—19.07	15 54 35.89	— 3.67	61 11 39.72	0.28	102.28	—22 20 37.6	37.2	+ 3.5
14	θ	Draconis	9	0 24.49	+0.40	19.08	16 0 5.81	— 2.72	340 3 21.70	42.18	20.42	+58 49 42.9	43.4	— 5.8
15	151	H¹. Cephei S. P. . .	9	6 0.22	—2.89	19.08	4 5 38.25	+ 1.96	304 11 48.42	9.50	82.69	85 17 40.4	40.6	+ 7.5
16	σ²	Coronæ Borealis . .	9	11 22.30	+0.17	**19.18**	16 11 3.38	— 2.79	4 46 11.75	33.00	4.75	+34 6 27.6	27.5	— 3.4
17	ε	Ophiuchi	9	13 30.49	—0.01	**19.11**	16 13 11.39	3.27	43 19 4.60	25.80	53.25	— 4 27 13.5	13.7	+ 0.2
18	γ	Herculis	9	17 57.71	+0.09	**—19.07**	16 17 38.71	— 2.93	19 29 21.78	43.08	20.02	+19 23 2.4	2.2	— 2.1
19	η	Ursæ Minoris	9	20 43.52	+0.95	—19.10	16 20 25.37	— 3.42	322 54 28.30	49.32	42.60	+75 58 58.4	58.3	— 6.6
20	α	Scorpii	9	23 46.87	—0.10	19.10	16 23 27.67	3.83	65 3 34.85	58.28	121.03	—26 12 51.4	53.9	— 1.0
21	β	Herculis	8	26 22.31	+0.10	**19.11**	16 26 3.31	2.93	17 10 12.68	34.38	17.51	+21 42 14.0	13.4	— 2.6
22	σ	Herculis	9	31 18.30	+0.22	19.11	16 30 59.41	2.80	356 14 22.62	44.80	3.67	42 38 25.4	24.1	— 4.4
23	35	B. Camelop. S. P. .	9	35 58.46	—0.94	19.11	4 35 38.41	0.22	294 40 27.60	49.45	122.15	75 45 40.6	41.7	+ 7.1
24	η	Herculis	9	39 53.91	+0.20	—19.12	16 39 34.99	— 2.83	359 46 10.42	31.65	0.19	+39 6 34.2	33.8	— 4.0
25	114	B. Draconis	9	43 47.84	+0.37	—19.12	16 43 29.09	— 2.89	341 55 32.52	54.08	18.41	+56 57 30.2	29.6	— 5.2
26	49	Herculis	9	47 59.13	0.07	**19.05**	16 47 40.07	3.02	23 43 55.18	18.10	24.92	15 8 24.3	22.3	3.0
27	κ	Ophiuchi	9	53 23.89	0.05	**19.11**	16 53 4.81	3.09	29 20 31.38	51.12	31.85	9 31 41.1	42.4	3.0
28	ε	Ursæ Minoris	7	56 22.09	1.74	19.14	16 56 4.69	5.02	316 41 34.58	50.22	53.21	82 12 2.5	3.3	6.0
29	d	Herculis	9	58 21.12	+0.16	**19.16**	16 58 2.14	— 2.88	5 9 58.48	18.75	5.16	33 42 40.6	41.4	— 4.1
30	19	H. Camelop. S. P. .	9	6 43.79	—1.24	—19.15	5 6 23.40	+ 0.53	298 1 33.35	53.68	105.70	+79 7 2.7	2.3	+ 6.1

1902 JUNE 9. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
31	12	Canum Venat. . . .	9	51 47.71	+0.17	**—19.20**	12 51 28.70	— 2.00	0 1 51.65	13.18	0.07	+38 50 52.8	52.7	— 0.3
32	43	H. Cephei S. P. . . .	9	55 41.91	—2.72	19.18	0 55 20.01	4.15	304 37 50.80	12.30	80.89	+85 43 44.9	45.4	+ 8.7
33	γ	Hydræ	9	13 57.69	0.07	19.18	13 13 38.44	2.94	61 30 35.00	56.88	103.25	—22 39 33.2	34.1	17.4
34	α	Ursæ Minoris S. P.	7	23 59.77	—9.55	19.18	1 23 31.04	6.72	307 40 53.14	13.41	72.54	+88 46 55.2	54.8	+ 8.7
35	25	Canum Venat. . . .	9	33 27.76	+0.16	**19.27**	13 33 8.74	2.21	2 5 6.12	27.90	2.09	+36 47 36.5	35.9	— 0.8
36	m	Virginis	9	36 49.98	—0.02	**—19.14**	13 36 30.78	— 2.79	47 4 26.65	48.18	60.52	— 8 12 42.2	42.7	+11.9
37	τ	Bootis	9	42 57.81	+0.07	**—19.13**	13 42 38.70	— 2.44	20 55 43.60	6.18	21.58	+17 56 39.8	38.2	+ 3.9
38	89	Virginis	9	44 54.84	—0.05	19.18	13 44 35.61	3.01	56 30 19.05	40.40	85.03	—17 38 59.0	59.4	+13.9
39		B. D.+40° 2701 . . .	9	47 57.58	+0.18	19.18	13 47 38.58	2.24	358 43 28.58	49.20	1.21	+40 9 17.6	17.9	— 1.9
40	η	Bootis	9	50 22.68	0.08	**19.17**	13 50 3.58	2.47	19 59 7.90	28.98	20.54	18 53 16.4	16.4	+ 3.6
41	τ	Virginis	9	57 1.35	0.02	**19.13**	13 56 42.19	2.74	36 51 1.70	23.28	42.30	2 1 0.9	0.4	+ 7.8
42	α	Draconis	9	2 4.92	+0.43	—19.18	14 1 46.17	— 2.08	334 2 25.10	47.75	27.41	+64 50 47.2	45.5	— 6.8
43	d	Bootis	9	6 17.31	+0.10	—19.18	14 5 58.23	— 2.46	13 19 11.60	32.60	13.40	+25 33 19.8	19.9	+ 1.2
44	4	Ursæ Minoris	9	9 33.97	+0.96	19.18	14 9 15.75	2.07	320 52 53.72	14.62	45.79	+78 0 36.7	36.8	— 8.3
45	λ	Virginis	9	14 10.59	—0.04	**19.17**	14 13 51.37	3.07	51 46 56.98	17.65	71.66	—12 55 23.6	23.3	+10.6
46	θ	Bootis	9	22 12.77	+0.26	19.18	14 21 53.85	2.28	346 34 39.80	2.12	13.44	+52 18 18.6	17.2	— 4.8
47	γ	Bootis	9	28 29.40	0.17	**19.21**	14 28 10.39	2.42	0 8 29.90	51.25	0.18	38 44 14.7	14.5	2.6
48	33	Bootis	9	35 32.79	+0.20	—19.18	14 35 13.81	— 2.39	354 3 6.82	29.22	5.85	+44 49 44.0	42.5	— 3.8
49	109	Virginis	9	41 39.66	+0.02	**—19.15**	14 41 20.50	— 2.90	36 33 46.58	7.75	42.00	+ 2 18 16.4	16.2	+ 5.1
50	α	Libræ	9	45 49.83	—0.05	**19.20**	14 45 30.60	3.27	54 29 40.15	0.78	79.25	—15 38 14.3	14.0	+ 8.8
51	61	B. Draconis	9	49 18.30	+0.35	19.18	14 48 59.47	2.38	339 11 27.90	48.55	21.46	+59 41 38.5	38.8	— 6.3
52	47	H. Cephei S. P. . . .	9	53 23.79	—1.05	19.18	2 53 3.56	1.08	297 56 18.22	38.30	106.07	79 1 46.6	45.9	+ 8.9
53	β	Bootis	9	58 36.78	+0.18	19.18	14 58 17.78	2.53	358 6 7.18	28.20	1.83	40 46 39.7	39.6	— 3.4
54	1	H. Ursæ Minoris .	9	13 52.01	+0.50	—19.18	15 13 33.33	— 2.58	331 10 2.20	22.90	31.11	+67 43 13.9	14.0	— 7.0

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
8 15 44	. . . . .	. . . .	16.4
16 2	75.58	17.5	16.0
16 16	. . . . .	. . . .	15.8
16 33	. . . . .	. . . .	15.4
17 4	75.62	16.7	15.2
9 12 50	75.80	20.0	18.4
13 22	. . . . .	. . . .	17.8
13 59	75.85	18.5	17.0
14 33	. . . . .	. . . .	16.3
14 56	75.83	17.5	16.0

Bisections are made at II and V, except as noted below.

3.	Bisections at IV, V.
6, 7, 11, 12, 14, 19, 22, 24, 25, 37, 39, 42, 44, 46, 48, 51, 53, 54.	Bisections at III, V.
15, 23, 30, 52.	Bisections at V, III.
28.	Bisections at III, VII.
32.	Bisections at c_5, c_1.
34.	Bisections at c_5, c_4, c_2, c_1.

Notes.

1–11, 31–54.	Seeing 3.
1, 4, 8, 35.	Observed head north.
6, 7, 12, 39.	Observed head south.
12–30.	Seeing 3–4.
13.	First bisection doubtful.
29.	Circle A read on 10′ division.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–30, from nadir	*	7.70
31–54, from nadir	*	7.06

* Interpolated from diagram.

NO.	NAME.	THDS.	MEAN THREAD.	c' SEC δ − n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
								A.	B.		A.	B.	
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	B. D. +41° 2592	9	16 50.12	+0.18	−19.18	15 16 31.12	− 2.58	357 32 43.65	5.85	2.39	+41 20 3.8	2.4	− 3.7
2	μ Bootis	9	21 8.96	0.16	**19.20**	15 20 49.94	2.62	1 9 26.12	46.68	1.19	37 43 17.6	18.0	3.3
3	ι Draconis	9	23 6.28	0.34	19.18	15 22 47.44	2.57	339 34 27.65	46.15	21.05	59 18 38.4	40.8	6.2
4	ν^1 Bootis	9	27 46.20	−0.18	19.18	15 27 27.20	2.62	357 42 41.65	3.52	2.22	+41 10 5.7	4.6	− 3.9
5	γ Libræ	9	30 25.13	−0.04	**19.11**	15 30 5.91	3.40	53 19 20.45	41.98	76.03	−14 27 51.3	52.0	+ 4.8
6	B. D. +38° 2678	9	32 33.52	−0.17	−19.18	15 32 14.51	− 2.66	0 10 45.18	6.15	0.22	+38 41 59.5	59.6	− 3.6
7	ζ Coronæ Borealis	9	36 2.97	+0.16	−19.18	15 35 43.95	− 2.68	1 55 26.40	48.28	1.94	+36 57 16.6	15.7	− 3.4
8	β Serpentis	9	42 1.85	0.06	**19.12**	15 41 42.73	2.90	23 8 37.60	58.82	24.28	15 43 43.2	42.9	0.5
9	κ Serpentis	9	44 41.64	0.07	**19.17**	15 44 22.53	2.87	20 25 43.58	5.70	21.15	18 26 40.3	39.1	1.0
10	ζ Ursæ Minoris	9	47 54.57	0.96	19.18	15 47 36.35	3.29	320 47 39.15	59.52	46.14	78 5 51.8	52.2	7.6
11	B. D. +38° 2712	9	52 35.44	+0.16	19.18	15 52 16.42	2.72	0 38 52.75	13.60	0.68	+38 13 51.5	51.6	− 3.8
12	δ Scorpii	9	54 55.17	−0.07	−19.18	15 54 35.92	− 3.67	61 11 40.40	1.55	102.90	−22 20 38.0	38.4	+ 3.5
13	θ Draconis	9	0 24.66	+0.34	−19.18	16 0 5.82	− 2.71	340 3 22.48	42.70	20.52	+58 49 43.2	43.7	− 6.1
14	151 H^1. Cephei S. P.	6	5 59.73	−2.47	19.18	4 5 38.08	+ 1.84	304 11 49.02	11.18	83.14	85 17 40.6	41.2	+ 7.7
15	σ^2 Coronæ Borealis	9	11 22.40	−0.14	**19.25**	16 11 3.36	− 2.79	4 46 12.10	33.88	4.78	+34 6 28.1	27.3	− 3.7
16	ε Ophiuchi	9	13 30.56	−0.01	**19.18**	16 13 11.37	3.27	43 19 5.20	26.42	53.53	− 4 27 13.5	14.0	+ 0.1
17	γ Herculis	9	17 57.83	−0.08	**19.17**	16 17 38.73	2.94	19 29 23.42	44.32	20.14	+19 23 1.6	1.5	− 2.3
18	η Ursæ Minoris	9	20 43.60	+0.81	−19.18	16 20 25.23	− 3.40	322 54 28.78	50.48	42.81	+75 58 59.0	58.0	− 6.9
19	α Scorpii	9	23 47.01	−0.09	−19.18	16 23 27.74	− 3.84	65 3 36.68	58.65	121.60	−26 12 52.9	54.2	+ 1.0
20	β Herculis	9	26 22.42	+0.09	**19.21**	16 26 3.33	2.93	17 10 13.88	34.80	17.58	+21 42 13.6	13.6	− 2.8
21	σ Herculis	9	31 18.38	+0.19	19.18	16 30 59.39	2.80	356 14 23.50	44.75	3.69	42 38 25.4	24.8	− 4.7
22	35 B. Camelop. S. P.	9	35 58.56	−0.80	19.18	4 35 38.58	0.26	294 40 28.88	50.48	122.63	75 45 40.6	41.6	+ 7.4
23	η Herculis	9	39 54.06	−0.17	19.18	16 39 35.05	2.83	359 46 11.92	32.88	0.19	39 6 33.5	33.2	− 4.3
24	114 B. Draconis	9	43 47.97	+0.32	−19.18	16 43 29.11	− 2.89	341 55 33.88	55.20	18.49	+56 57 29.8	29.2	− 5.5
25	49 Herculis	9	47 59.28	−0.06	**−19.19**	16 47 40.16	− 3.02	23 43 56.90	18.40	25.01	+15 8 23.3	22.6	− 3.2
26	κ Ophiuchi	9	53 23.92	0.04	**19.12**	16 53 4.78	3.10	29 20 32.55	51.72	31.98	9 31 40.7	42.3	3.2
27	ε Ursæ Minoris	7	56 22.27	1.48	19.18	16 56 4.57	4.99	316 41 35.92	52.72	53.44	82 12 2.8	1.7	6.3
28	d Herculis	9	58 21.22	+0.14	**19.23**	16 58 2.18	2.89	5 9 59.62	20.15	5.18	33 42 40.3	40.6	− 4.4
29	19 H. Camelop. S. P.	9	6 43.87	−1.06	−19.18	5 6 23.63	− 0.49	298 1 35.12	54.15	106.17	+79 7 3.1	1.7	+ 6.4

1902 JUNE 10. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

30	12 Canum Venat.	9	51 47.87	+0.13	**−19.34**	12 51 28.77	1.98	0 1 52.50	12.90	0.07	+38 50 52.3	52.3	− 0.4
31	43 H. Cephei S. P.	9	55 42.01	−2.01	19.23	0 55 20.77	4.44	304 37 49.88	9.90	78.87	+85 43 45.6	45.6	+ 8.8
32	γ Hydræ	9	13 57.70	0.03	19.24	13 13 38.43	2.93	61 30 37.90	57.10	100.72	−22 39 33.3	32.4	17.4
33	α Ursæ Minoris S.P.	9	23 58.83	−7.06	19.24	1 23 32.53	7.56	307 40 51.56	12.05	70.74	+88 46 55.1	55.9	+ 8.9
34	25 Canum Venat.	9	33 27.74	+0.12	**19.23**	13 33 8.62	2.19	2 5 6.80	27.38	2.04	+36 47 36.3	35.9	− 1.0
35	m Virginis	9	36 50.08	0.00	**−19.27**	13 36 30.83	− 2.78	47 4 28.78	48.25	59.02	− 8 12 42.6	41.9	11.8
36	τ Bootis	9	42 57.88	+0.06	**−19.20**	13 42 38.69	− 2.43	20 55 45.05	6.32	21.05	+17 56 39.0	37.9	+ 3.8
37	89 Virginis	9	44 54.94	−0.02	19.25	13 44 35.67	3.01	56 30 21.45	42.22	82.91	−17 38 59.1	59.8	+13.8
38	B. D. +40° 2701	9	47 57.69	+0.14	19.25	13 47 38.58	2.23	358 43 27.05	48.10	1.18	+40 9 19.0	18.4	− 2.1
39	η Bootis	9	50 22.75	0.06	**19.23**	13 50 3.56	2.46	19 59 8.30	27.80	20.03	18 53 16.7	17.5	+ 3.5
40	τ Virginis	7	57 1.41	0.02	**19.20**	13 56 42.18	2.73	36 51 3.85	22.90	41.26	2 1 0.0	1.2	+ 7.7
41	α Draconis	9	2 5.11	+0.32	−19.26	14 1 46.17	− 2.05	334 2 24.68	47.05	26.73	+64 50 47.1	44.8	− 7.0
42	d Bootis	9	6 17.42	−0.08	−19.26	14 5 58.24	− 2.45	13 19 12.28	32.20	13.07	+25 33 19.7	20.0	+ 1.0
43	4 Ursæ Minoris	7	9 34.01	+0.71	19.26	14 9 15.46	1.99	320 52 52.92	12.88	44.66	+78 0 36.6	36.8	− 8.5
44	λ Virginis	8	14 10.63	−0.01	**19.24**	14 13 51.36	3.07	51 46 59.50	18.75	69.88	−12 55 24.2	23.3	+10.6
45	θ Bootis	7	22 12.97	+0.20	19.26	14 21 53.91	2.26	346 34 38.18	0.72	13.11	+52 18 20.2	17.6	− 5.0
46	γ Bootis	9	28 29.57	0.13	**19.35**	14 28 10.43	2.41	0 8 29.32	50.40	0.18	38 44 15.4	14.7	2.8
47	33 Bootis	9	35 32.93	+0.16	−19.27	14 35 13.82	− 2.38	354 3 6.70	28.10	5.70	+44 49 44.1	42.9	4.0
48	109 Virginis	4	41 39.76	+0.02	**−19.25**	14 41 20.51	− 2.90	36 33 47.42	7.85	40.87	+ 2 18 17.0	16.6	+ 5.0
49	α Libræ	7	45 49.85	0.02	**19.25**	14 45 30.56	3.27	54 29 41.50	2.18	77.07	−15 38 13.3	13.9	+ 8.8
50	61 B. Draconis	.	.. ..	....	.....	14 49	....	339 11 27.10	46.52	20.86	+59 41 38.8	39.6	6.5
51	47 H. Cephei S. P.	8	53 23.54	0.78	19.28	2 53 3.48	1.17	297 56 15.80	34.60	103.13	79 1 47.0	45.8	+ 9.1
52	β Bootis	9	58 36.92	+0.14	19.28	14 58 17.78	2.52	358 6 6.62	27.38	1.78	40 46 40.3	39.7	− 3.6
53	1 H. Ursæ Minoris	9	13 52.21	+0.37	−19.28	15 13 33.30	− 2.55	331 10 1.12	21.50	30.22	+67 43 14.1	13.9	7.2

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
9 15 34	.....	....	15.6
16 4	75.79	16.5	15.2
16 33	.....	....	15.0
17 3	75.80	16.0	14.7
10 12 54	75.35	25.0	23.8
13 27	.....	....	23.0
13 53	75.37	23.6	22.4
14 21	.....	....	21.8
14 57	75.42	23.0	22.4

Bisections are made at II and V, except as noted below.

1, 3, 4, 10, 13, 18, 21, 23, 24, 34, 41, 43, 47, 50, 52, 53.	Bisections at III, V.
14.	Bisections at c_4, III.
22, 29, 51.	Bisections at V, III.
27.	Bisections at c_1, VII.
31.	Bisections at c_5, c_1.
33.	Bisections at c_5, c_4, c_2, c_1.
45, 48.	Bisections at IV, V.

Notes.

1–28, 30–44.	Seeing 3.
1, 4, 34.	Observed head south.
6, 7, 11, 38.	Observed head north.
28.	Circle A read on 10′ division.
29.	Unsteady and poor; clouds.
45–53.	Seeing bad.
45, 48	Poor observation.
46.	First bisection doubtful; very unsteady.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1–29, from nadir......		*	7.06
30–53, from nadir......	+2	27.76	7.70

* Interpolated from diagram.

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n\tan\delta$.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	B. D. +41° 2592	9	16 50.24	+0.14	−19.29	15 16 31.09	− 2.58	357 32 42.30	4.05	2.32	+41 20 4.9	3.5	− 4.0
2	μ Bootis	9	21 9.10	0.12	**19.31**	15 20 49.93	2.61	1 9 25.75	45.60	1.15	37 43 18.0	18.5	3.5
3	ι Draconis	9	23 6.50	0.26	19.29	15 22 47.47	2.56	339 34 26.20	44.70	20.44	59 18 39.3	41.0	6.5
4	ν¹ Bootis	7	27 46.37	+0.14	19.29	15 27 27.22	2.61	357 42 40.62	1.90	2.16	+41 10 6.4	5.5	− 4.2
5	γ Libræ	9	30 25.26	−0.01	**19.27**	15 30 5.96	3.40	53 19 22.80	43.15	73.82	−14 27 51.4	51.6	+ 4.8
6	B. D. +38° 2678	9	32 33.66	+0.13	−19.29	15 32 14.50	− 2.65	0 10 45.65	5.30	0.21	+38 41 59.3	59.8	− 3.8
7	ζ Coronæ Borealis	9	36 3.11	+0.12	−19.29	15 35 43.94	− 2.67	1 55 26.38	47.70	1.89	+36 57 16.9	15.7	− 3.6
8	B. D. +39° 2901	9	38 12.68	0.13	19.29	15 37 53.52	2.67	0 0 21.90	41.52	0.05	38 52 23.2	23.7	4.0
9	β Serpentis	9	42 1.96	0.06	**19.23**	15 41 42.72	2.90	23 8 37.05	58.70	23.58	15 43 44.4	43.0	0.7
10	κ Serpentis	9	44 41.80	0.06	**19.32**	15 44 22.56	2.87	20 25 43.35	5.50	20.55	18 26 41.2	39.3	1.1
11	ζ Ursæ Minoris	9	47 54.81	0.71	19.30	15 47 36.22	3.24	320 47 37.10	56.50	44.82	78 5 52.5	53.3	7.8
12	B. D. +38° 2712	9	52 35.61	+0.13	−19.30	15 52 16.44	− 2.72	0 38 53.40	13.68	0.66	+38 13 51.1	50.9	− 4.1
13	δ Scorpii	9	54 55.24	−0.03	−19.30	15 54 35.91	− 3.67	61 11 43.02	3.45	99.92	−22 20 37.6	38.0	+ 3.5
14	θ Draconis	9	0 24.91	+0.25	19.30	16 0 5.86	− 2.70	340 3 21.42	40.45	19.94	+58 49 43.6	44.7	− 6.4
15	151 H¹. Cephei S. P.	9	5 59.30	−1.82	19.31	4 5 38.17	+ 1.74	304 11 46.22	6.58	80.72	85 17 39.3	39.6	+ 8.0
16	σ² Coronæ Borealis	8	11 22.50	+0.11	**19.32**	16 11 3.30	− 2.79	4 46 12.25	31.98	4.64	+34 6 28.1	28.7	− 4.0
17	ε Ophiuchi	9	13 30.71	0.01	**19.34**	16 13 11.41	3.28	43 19 5.92	26.48	51.95	− 4 27 12.7	13.1	0.0
18	γ Herculis	9	17 57.98	+0.07	**−19.31**	16 17 38.74	− 2.94	19 29 23.65	42.98	19.52	+19 23 1.9	2.8	− 2.5
19	η Ursæ Minoris	9	20 43.94	+0.60	−19.31	16 20 25.23	− 3.37	322 54 27.08	48.22	41.52	+75 58 59.3	58.3	− 7.2
20	α Scorpii	9	23 47.12	−0.04	19.31	16 23 27.77	3.85	65 3 39.50	0.52	117.88	−26 12 52.1	53.0	+ 1.0
21	β Herculis	9	26 22.56	+0.07	**19.33**	16 26 3.32	2.93	17 10 13.08	34.40	17.04	+21 42 14.9	13.9	− 3.0
22	σ Herculis	9	31 18.57	+0.15	19.32	16 30 59.40	2.80	356 14 22.62	43.80	3.57	42 38 26.1	25.0	− 5.0
23	35 B. Camelop. S. P.	9	35 58.52	−0.59	19.32	4 35 38.61	0.30	294 40 24.18	45.15	118.78	75 45 39.8	40.8	+ 7.7
24	η Herculis	9	39 54.15	+0.13	−19.32	16 39 34.96	− 2.83	359 46 10.40	31.10	0.18	+39 6 34.9	34.4	− 4.6
25	114 B. Draconis	9	43 48.19	+0.24	−19.32	16 43 29.11	− 2.89	341 55 32.00	53.55	17.91	+56 57 31.0	29.6	− 5.8
26	49 Herculis	9	47 59.37	0.06	**19.27**	16 47 40.11	3.03	23 43 56.75	18.70	24.22	15 8 24.1	22.4	3.4
27	κ Ophiuchi	9	53 24.11	0.04	**19.30**	16 53 4.83	3.11	29 20 33.02	51.75	30.95	9 31 41.1	42.6	3.4
28	ε Ursæ Minoris	6	56 22.95	1.10	19.33	16 56 4.72	4.96	316 41 32.22	48.98	51.72	82 12 4.7	3.1	6.6
29	d Herculis	9	58 21.38	+0.11	**19.35**	16 58 2.16	− 2.90	5 9 58.80	19.42	5.01	33 42 41.1	40.8	− 4.7
30	19 H. Camelop. S. P.	9	6 43.68	−0.78	−19.33	5 6 23.57	+ 0.46	298 1 31.12	50.30	102.70	+79 7 2.7	1.9	+ 6.7

1902 JUNE 21. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n\tan\delta$.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
31	ρ Bootis	9	28 2.69	+0.16	**−24.06**	14 27 38.82	− 2.38	8 4 26.42	47.42	7.92	+30 48 8.2	8.8	− 2.9
32	Mayer 591	9	29 47.09	−0.08	24.03	14 29 22.98	3.25	58 51 55.82	17.25	91.79	−20 0 44.8	44.8	+10.8
33	6 B. Libræ	9	32 14.04	−0.04	24.03	14 31 49.97	3.08	50 45 3.65	25.52	67.98	−11 53 28.9	29.2	8.5
34	π Bootis	9	36 33.81	+0.09	**24.01**	14 36 9.86	2.61	22 2 0.28	23.98	22.53	+16 50 19.8	17.7	0.4
35	μ Virginis	9	38 20.69	−0.01	**24.03**	14 37 56.64	2.97	44 5 51.15	13.80	53.85	− 5 14 2.3	3.4	6.4
36	5 Libræ	9	41 0.76	−0.06	−24.04	14 40 36.66	− 3.19	53 54 22.40	45.12	76.17	−15 2 55.8	57.0	+ 8.6
37	α Libræ	9	45 54.66	−0.06	−24.05	14 45 30.55	− 3.23	54 29 37.85	59.32	77.80	−15 38 12.9	12.9	+ 8.4
38	ξ¹ Libræ	9	49 30.82	0.04	24.05	14 49 6.73	3.15	50 21 36.60	58.25	67.07	11 30 0.9	1.1	7.0
39	ξ² Libræ	9	51 54.22	0.04	**24.10**	14 51 30.12	3.15	49 52 34.42	56.12	65.95	11 0 57.6	57.8	6.7
40	δ Libræ	9	56 11.36	0.02	24.06	14 55 47.28	3.11	46 59 36.65	58.55	59.61	8 7 53.5	53.9	5.7
41	γ Scorpii	9	58 47.62	−0.10	24.06	14 58 23.46	3.53	63 44 48.15	10.32	112.38	−24 53 57.7	58.4	+ 9.5
42	ψ Bootis	9	0 41.29	+0.14	**−24.08**	15 0 17.36	− 2.57	11 32 40.72	1.62	11.40	+27 19 50.4	51.2	− 3.3
43	c Bootis	9	3 26.38	+0.13	−24.07	15 3 2.44	− 2.61	13 37 23.08	45.85	13.52	+25 15 5.9	4.8	− 3.0
44	ι Libræ	9	7 5.59	−0.08	24.07	15 6 41.44	3.42	58 16 36.02	58.38	89.83	−19 25 23.1	23.9	+ 7.6
45	1 Lupi	9	9 4.97	0.14	24.07	15 8 40.76	3.80	69 59 32.80	53.62	151.70	31 9 21.7	21.0	9.9
46	β Libræ	9	12 11.23	0.03	**24.08**	15 11 47.12	3.19	47 53 1.75	23.85	61.52	9 1 20.5	21.1	4.7
47	σ² Libræ	9	18 1.19	−0.06	24.08	15 17 37.05	3.36	53 38 36.48	58.68	75.53	−14 47 9.2	10.0	+ 5.5
48	u Bootis	9	21 13.85	+0.21	−24.09	15 20 49.97	− 2.53	1 9 20.65	42.62	1.16	+37 43 20.6	20.4	− 6.0
49	32 Libræ	9	23 11.22	−0.06	−24.09	15 22 47.07	− 3.42	55 13 55.95	18.22	80.06	−16 22 33.2	34.0	+ 5.4
50	Mayer 622	9	27 26.50	0.08	24.09	15 27 2.33	3.51	58 11 31.45	52.40	89.60	19 20 18.3	17.7	5.6
51	γ Libræ	9	30 30.09	0.05	24.09	15 30 5.95	3.40	53 19 18.52	40.50	74.71	14 27 50.5	51.0	4.4
52	42 Libræ	9	34 57.08	0.10	24.10	15 34 32.88	3.66	62 21 0.10	22.95	106.00	23 30 3.3	4.7	5.8
53	κ Libræ	9	36 45.63	0.08	24.10	15 36 21.45	3.54	58 12 57.22	19.85	89.76	19 21 44.2	45.3	4.9
54	η Libræ	9	39 1.19	−0.06	−24.10	15 38 37.03	− 3.45	54 13 6.92	29.58	77.23	−15 21 41.4	42.6	+ 3.8

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
10 15 26	.....	....	22.4
16 4	75.41	22.2	21.9
16 33	.....	....	22.5
17 3	75.40	22.5	22.3
21 14 23	75.53	22.8	20.1
14 55	.....	....	19.8
15 25	75.54	20.5	19.6

Bisections are made at II and V, except as noted below.

3, 6, 7, 8, 11, 12. } Bisections at III, V.
14, 19, 22, 24, 25, 45. }
15, 23, 30. Bisections at V, III.
28. Bisections at c_1, VII.

Notes.

1, 4, 8. Observed head north.
6, 7, 12. Observed head south.
26, 32. Unsteady.
29. Circle A read on 10′ division.
31–54. Seeing 3.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–30, from nadir......	+2 27.76	7.70
31–54, from nadir......	+2 30.24	8.80

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	β	Serpentis	9	42 6.75	+0.08	**—24.06**	15 41 42.73	— 2.88	23 8 32.32	55.32	23.87	+15 43 46.4	45.0	— 2.7
2	μ	Serpentis	9	44 57.59	0.00	**24.11**	15 44 33.48	3.19	41 59 41.35	3.92	50.22	— 3 7 48.9	49.9	+ 1.0
3	λ	Libræ	9	48 6.33	—0.08	24.11	15 47 42.14	3.60	58 43 40.58	2.05	91.66	19 52 29.4	29.4	3.9
4	ρ	Scorpii	9	51 18.01	0.12	24.11	15 50 53.78	3.90	67 46 11.40	34.18	135.80	28 55 44.4	45.7	5.1
5	π	Scorpii	9	53 23.30	0.11	24.11	15 52 59.08	3.80	64 40 42.78	5.88	117.50	25 49 57.4	59.1	4.4
6	δ	Scorpii	9	55 0.14	—0.09	—24.11	15 54 35.94	— 3.69	61 11 38.88	0.22	101.25	—22 20 37.3	37.2	+ 3.6
7	r	Herculis	9	57 16.99	+0.09	—24.11	15 56 52.97	— 2.90	20 46 55.98	18.80	21.23	+18 5 25.4	24.2	— 3.8
8	β^1	Scorpii	9	0 12.00	—0.08	24.12	15 59 47.80	3.63	58 23 28.35	50.20	90.57	—19 32 16.1	16.5	+ 2.8
9	ω^2	Scorpii	9	2 7.24	0.08	24.12	16 1 43.04	— 3.67	59 27 25.12	45.90	94.47	—20 36 16.8	16.1	2.6
10	151	H^1. Cephei S. P.	9	6 7.32	—3.17	24.12	4 5 40.03	+ 0.01	304 11 41.02	2.78	81.87	+85 17 36.3	36.6	+10.9
11	σ^2	Coronæ Borealis	9	11 27.24	+0.18	**24.16**	16 11 3.30	— 2.76	4 46 5.95	28.95	4.70	+34 6 31.8	30.5	— 6.7
12	ε	Ophiuchi	9	13 35.52	—0.01	**—24.09**	16 13 11.39	— 3.32	43 19 1.28	24.38	52.74	— 4 27 11.3	12.9	— 1.0
13	σ	Scorpii	9	15 41.91	—0.11	—24.12	16 15 17.68	— 3.85	64 12 15.18	38.58	115.30	—25 21 27.6	29.6	+ 2.1
14	ψ	Ophiuchi	9	18 49.87	0.08	24.13	16 18 25.66	3.69	58 39 40.95	1.08	91.69	19 48 29.8	28.5	0.9
15	χ	Ophiuchi	9	21 48.38	0.07	24.13	16 21 24.18	3.65	57 5 18.10	41.38	86.32	18 14 1.6	3.4	0.4
16	α	Scorpii	9	23 51.96	0.11	24.13	16 23 27.72	3.91	65 3 33.25	57.92	119.90	26 12 50.3	53.5	+ 1.3
17	φ	Ophiuchi	9	25 59.47	—0.06	24.13	16 25 35.28	3.61	55 15 18.20	41.48	80.59	—16 23 56.0	57.8	— 0.2
18	34	Herculis	9	27 51.14	+0.31	—24.13	16 27 27.32	— 2.74	349 42 14.88	36.62	10.13	+49 10 37.9	37.7	— 8.7
19	τ	Scorpii	9	30 15.02	—0.12	—24.13	16 29 50.77	— 3.98	66 51 16.80	38.88	130.40	—28 0 44.4	45.0	+ 0.9
20	ζ	Ophiuchi	9	32 13.34	—0.04	**24.13**	16 31 49.17	3.48	49 13 42.38	4.50	64.91	—10 22 4.6	5.2	— 1.5
21	κ	Ophiuchi	9	53 28.99	+0.05	**24.14**	16 53 4.90	3.16	29 20 28.00	48.52	31.59	+ 9 31 43.0	44.1	5.2
22	ε	Ursæ Minoris	9	56 26.32	+1.91	—24.14	16 56 4.09	— 4.43	316 41 28.88	50.65	52.81	+82 12 6.6	5.8	—10.1

1902 JUNE 23. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

23	ρ	Bootis	9	28 3.68	+0.12	**—25.03**	14 27 38.80	— 2.36	8 4 25.80	46.85	8.07	+30 48 8.4	8.7	— 3.3
24		Mayer 591	9	29 48.01	—0.05	25.00	14 29 22.96	3.23	58 51 54.02	13.35	93.58	—20 0 45.1	43.2	+10.8
25	6	B. Libræ	9	32 14.96	—0.03	25.01	14 31 49.92	3.06	50 45 1.35	23.20	69.30	—11 53 28.2	28.8	8.4
26	π	Bootis	9	36 34.77	+0.07	**24.97**	14 36 9.83	2.59	22 1 59.32	22.02	22.97	+16 50 20.0	18.6	0.1
27	μ	Virginis	8	38 21.66	0.00	**25.02**	14 37 56.65	2.96	44 5 49.68	12.15	54.92	— 5 14 2.1	3.4	6.3
28	5	Libræ	9	41 1.69	—0.04	—25.02	14 40 36.63	— 3.18	53 54 20.40	43.08	77.68	—15 2 55.6	57.1	+ 8.6
29	α	Libræ	9	45 55.61	—0.04	—25.02	14 45 30.55	— 3.22	54 29 36.35	58.12	79.40	—15 38 13.2	13.8	+ 8.4
30	ξ^1	Libræ	9	49 31.74	0.02	25.03	14 49 6.69	3.14	50 21 35.45	55.80	68.44	11 30 1.4	0.6	7.0
31	ξ^2	Libræ	9	51 55.17	0.02	**25.07**	14 51 30.12	3.15	49 52 32.20	53.60	67.28	11 0 57.0	57.2	6.7
32	δ	Libræ	9	56 12.22	0.01	25.04	14 55 47.17	3.10	46 59 34.90	55.55	60.84	8 7 53.3	52.7	5.6
33	γ	Scorpii	9	58 48.57	—0.07	25.04	14 58 23.46	3.52	63 44 45.30	7.65	114.70	—24 53 57.4	58.7	+ 9.6
34	ψ	Bootis	9	0 42.25	+0.11	**—25.03**	15 0 17.32	— 2.55	11 32 39.55	1.18	11.64	+27 19 51.1	50.8	— 3.6
35	c	Bootis	9	3 27.35	+0.10	—25.05	15 3 2.40	— 2.59	13 37 22.25	44.62	13.80	+25 15 6.2	5.2	— 3.3
36	ι	Libræ	9	7 6.50	—0.05	25.05	15 6 41.40	3.41	58 16 34.38	55.12	91.73	—19 25 23.6	23.2	+ 7.6
37	1	Lupi	9	9 5.88	0.10	25.05	15 8 40.73	3.79	69 59 27.95	48.60	154.90	31 9 20.2	19.8	10.0
38	β	Libræ	9	12 12.22	0.02	**25.08**	15 11 47.15	3.19	47 52 59.88	21.45	62.82	9 1 20.2	20.6	4.6
39	o^2	Libræ	9	18 2.22	—0.04	25.06	15 17 37.12	3.35	53 38 33.82	56.10	77.14	—14 47 8.5	9.6	+ 5.4
40	μ	Bootis	9	21 14.78	+0.16	**—25.13**	15 20 49.88	— 2.51	1 9 20.20	41.10	1.19	+37 43 20.8	21.3	— 6.5
41	32	Libræ	9	23 12.21	—0.04	—25.07	15 22 47.10	— 3.41	55 13 54.88	16.50	81.79	—16 22 34.2	34.6	+ 5.3
42		Mayer 622	9	27 27.46	0.05	25.07	15 27 2.34	3.50	58 11 28.80	48.50	91.54	19 20 17.8	16.4	5.6
43	γ	Libræ	9	30 31.01	0.04	25.07	15 30 5.90	3.39	53 19 17.08	38.35	76.31	14 27 50.9	51.0	4.3
44	42	Libræ	9	34 57.91	0.07	25.08	15 34 32.76	3.65	62 20 58.00	18.52	108.30	23 30 3.8	3.1	5.8
45	κ	Libræ	9	36 46.51	0.05	25.08	15 36 21.38	3.53	58 12 55.45	16.52	91.69	19 21 44.6	44.5	4.9
46	η	Libræ	9	39 2.04	—0.04	—25.08	15 38 36.92	— 3.44	54 13 5.42	26.50	78.89	—15 21 41.8	41.7	+ 3.7
47	β	Serpentis	9	42 7.69	+0.06	**—24.99**	15 41 42.67	— 2.87	23 8 31.75	53.70	24.37	+15 43 46.2	45.6	— 3.0
48	μ	Serpentis	9	44 58.52	0.00	**25.04**	15 44 33.44	3.19	41 59 41.50	2.20	51.27	— 3 7 50.3	49.8	+ 0.8
49	λ	Libræ	9	48 7.30	—0.05	25.09	15 47 42.16	3.60	58 43 38.52	59.75	93.60	19 52 29.6	29.7	3.9
50	ρ	Scorpii	9	51 18.97	0.09	25.09	15 50 53.79	3.90	67 46 8.48	30.65	138.65	28 55 44.5	45.6	5.2
51	π	Scorpii	9	53 24.21	0.08	25.09	15 52 59.04	3.80	64 40 41.12	2.70	119.95	25 49 58.6	59.0	4.4
52	δ	Scorpii	9	55 1.08	—0.06	—25.09	15 54 35.93	— 3.69	61 11 36.20	58.05	103.40	—22 20 37.1	37.8	+ 3.6
53	r	Herculis	5	57 17.99	+0.07	—25.09	15 56 52.97	— 2.89	20 46 55.08	17.42	21.67	+18 5 25.6	24.5	— 4.2
54	β^1	Scorpii	9	0 12.97	—0.05	25.10	15 59 47.82	3.63	58 23 26.08	47.32	92.47	—19 32 16.0	16.1	+ 2.8
55	ω^2	Scorpii	9	2 8.17	0.06	25.10	16 1 43.01	3.67	59 27 23.22	44.28	96.43	—20 36 17.1	17.0	2.6
56	151	H^1. Cephei S. P	9	6 7.88	—2.34	25.10	4 5 40.44	0.35	304 11 44.32	5.30	83.56	+85 17 37.3	37.2	+11.3
57	σ^2	Coronæ Borealis	9	11 28.30	+0.14	**25.19**	16 11 3.34	2.75	4 46 6.22	27.22	4.80	+34 6 31.2	31.6	— 7.2
58	ε	Ophiuchi	9	13 36.56	0.00	**—25.14**	16 13 11.46	— 3.32	43 19 0.38	23.02	53.79	— 4 27 11.7	13.2	— 1.2

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
21 15 59	.....	....	18.7
16 37	75.55	19.3	17.9
16 58	.....	....	17.0
23 14 24	75.94	18.4	16.4
14 54	.....	....	15.7
15 26	75.95	16.7	15.2
16 5	.....	....	14.4

Bisections are made at II and V, except as noted below.

10.	Bisections at c_5, c_1.
18, 27, 51, 52.	Bisections at III, V.
22.	Bisections at c_1, V.
56.	Bisections at V, III.

Notes.

1–22.	Seeing 3.
18.	Observed head north.
23–58.	Seeing varied from 3–4 to 2.
26.	Circle A read on 2′ division.
56.	Star blurred and unsteady.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–22, from nadir....	+2 30.24	8.80
23–58, from nadir....	+2 30.50	9.39

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	σ Scorpii	9	15 42.84	−0.07	−25.11	16 15 17.66	−3.85	64 12 13.12	35.50	117.60	−25 21 28.2	29.4	+ 2.2
2	ψ Ophiuchi	9	18 50.85	0.05	25.11	16 18 25.69	3.69	58 39 38.70	58.05	93.50	19 48 29.7	27.9	0.9
3	χ Ophiuchi	9	21 49.34	0.05	25.11	16 21 24.18	3.65	57 5 17.00	39.30	88.02	18 14 2.5	3.7	0.4
4	α Scorpii	9	23 52.93	0.08	25.11	16 23 27.74	3.91	65 3 32.60	55.22	122.20	26 12 52.2	53.7	+ 1.4
5	φ Ophiuchi	9	26 0.47	−0.04	25.11	16 25 35.32	3.61	55 15 18.15	.....	82.15	−16 23 57.8	....	− 0.3
6	34 Herculis	7	27 52.05	+0.23	−25.11	16 27 27.17	−2.72	349 42 15.92	36.42	10.32	+49 10 36.9	37.5	− 9.2
7	τ Scorpii	9	30 15.96	−0.08	−25.11	16 29 50.77	−3.98	66 51 14.12	36.58	132.90	−28 0 44.4	45.8	+ 1.0
8	ζ Ophiuchi	9	32 14.34	0.02	**25.15**	16 31 49.21	3.48	49 13 42.12	3.00	66.15	10 22 5.8	5.5	− 1.6
9	Bradley 2115	9	36 36.83	0.05	25.12	16 36 11.66	3.74	58 35 20.98	41.12	93.26	19 44 11.7	10.7	0.7
10	15 Ophiuchi	9	39 43.94	0.06	25.12	16 39 18.76	3.84	61 51 1.00	21.95	106.30	23 0 4.8	4.6	0.6
11	18 Ophiuchi	9	44 15.53	−0.07	25.12	16 43 50.34	3.90	63 18 56.38	16.20	113.10	−24 28 6.9	5.6	0.9
12	49 Herculis	9	48 5.20	+0.06	**−25.05**	16 47 40.14	−3.08	23 43 49.50	13.32	25.08	+15 8 27.8	25.2	− 5.8
13	24 Ophiuchi	9	51 22.30	−0.06	−25.12	16 50 57.12	−3.86	61 50 34.80	57.00	106.15	−22 59 38.4	39.5	− 1.8
14	κ Ophiuchi	9	53 29.92	+0.04	**25.06**	16 53 4.84	3.16	29 20 27.30	47.15	32.04	+ 9 31 43.0	44.4	5.6
15	ε Ursæ Minoris	9	56 27.68	−1.41	25.12	16 56 3.97	4.31	316 41 28.08	49.68	53.52	+82 12 7.3	6.9	10.7
16	31 Ophiuchi	9	59 10.84	−0.07	25.12	16 58 45.65	3.95	64 21 2.20	24.52	118.15	−25 30 17.8	18.8	2.3
17	η Ophiuchi	9	5 14.23	0.04	25.12	17 4 49.07	3.67	54 27 33.02	54.68	79.56	15 36 10.1	10.6	3.9
18	*A* Ophiuchi	9	9 48.38	−0.08	25.12	17 9 23.18	−3.98	65 18 9.35	31.72	123.20	−26 27 30.0	31.2	− 2.8
19	π Herculis	9	12 5.92	+0.15	**−25.13**	17 11 40.95	−2.95	1 57 21.32	43.02	1.98	+36 55 18.9	18.6	− 8.6
20	θ Ophiuchi	9	16 28.54	−0.07	25.12	17 16 3.35	3.94	63 44 50.55	13.80	115.00	−24 54 3.0	5.1	4.1
21	*b* Ophiuchi	9	20 52.17	0.07	25.12	17 20 26.98	3.92	62 55 54.18	16.10	111.00	24 5 2.6	3.4	4.6
22	51 Ophiuchi	9	25 55.19	0.07	25.12	17 25 30.00	3.92	62 43 59.95	21.25	110.10	23 53 7.5	7.7	5.1
23	ξ Serpentis	9	32 27.29	−0.04	**−25.12**	17 32 2.13	−3.68	54 11 29.95	52.18	78.81	−15 20 6.3	7.3	− 6.2

1902 JUNE 26. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
24	ρ Bootis	9	28 4.97	+0.12	**−26.35**	14 27 38.73	−2.33	8 4	45.58	7.82	+30 48	9.9	− 3.8
25	Mayer 591	9	29 49.32	−0.05	26.36	14 29 22.91	3.21	58 51 56.48	16.28	90.59	−20 0 44.5	43.4	+10.8
26	6 B. Libræ	9	32 16.33	−0.02	26.36	14 31 49.95	3.04	50 45 3.58	24.90	67.10	−11 53 28.2	28.6	+ 8.3
27	π Bootis	9	36 36.13	+0.07	**26.35**	14 36 9.84	2.57	22 1 59.68	21.70	22.24	+16 50 20.4	19.4	− 0.3
28	μ Virginis	9	38 22.99	0.00	**26.37**	14 37 56.63	2.94	44 5 51.15	13.02	53.19	− 5 14 1.9	2.8	+ 6.0
29	5 Libræ	9	41 3.01	−0.03	−26.36	14 40 36.62	−3.16	53 54 23.60	44.38	75.21	−15 2 56.3	56.2	+ 8.5
30	α Libræ	9	45 56.93	−0.04	−26.36	14 45 30.53	−3.19	54 29 38.60	58.42	76.88	−15 38 13.0	11.9	+ 8.3
31	ξ^1 Libræ	9	49 33.08	0.02	26.36	14 49 6.70	3.12	50 21 37.88	58.40	66.28	11 30 1.7	1.3	6.9
32	ξ^2 Libræ	9	51 56.47	0.02	**26.39**	14 51 30.09	3.13	49 52 34.38	56.20	65.18	11 0 57.1	58.0	6.5
33	δ Libræ	9	56 13.59	0.01	26.36	14 55 47.22	3.08	46 59 37.00	57.80	58.92	8 7 53.4	53.3	5.4
34	γ Scorpii	9	58 49.93	−0.07	26.37	14 58 23.49	3.50	63 44 49.62	11.70	111.10	−24 53 58.1	59.4	+ 9.6
35	ψ Bootis	9	0 43.56	+0.11	**−26.37**	15 0 17.30	2.52	11 32 38.92	0.12	11.27	+27 19 52.1	52.0	− 4.2
36	*c* Bootis	9	3 28.68	+0.10	−26.37	15 3 2.41	−2.57	13 37 22.22	43.82	13.37	+25 15 6.7	6.2	− 3.8
37	ι Libræ	9	7 7.89	−0.05	26.37	15 6 41.47	3.39	58 16 36.22	57.70	88.84	−19 25 22.5	23.1	+ 7.5
38	1 Lupi	9	9 7.23	0.09	26.38	15 8 40.76	3.77	69 59 33.88	52.62	150.10	31 9 21.4	19.3	10.2
39	β Libræ	9	12 13.50	0.02	**26.37**	15 11 47.10	3.18	47 53 2.70	23.80	60.87	9 1 21.1	21.3	4.4
40	ο^2 Libræ	5	18 3.45	−0.03	26.39	15 17 37.03	3.34	53 38 36.70	59.05	74.75	−14 47 8.9	10.3	+ 5.3
41	μ Bootis	9	21 16.08	+0.16	**−26.46**	15 20 49.85	−2.48	1 9 19.10	40.30	1.15	+37 43 21.9	21.9	− 7.1
42	32 Libræ	9	23 13.52	−0.04	−26.39	15 22 47.09	−3.40	55 13 58.02	18.98	79.25	16 22 34.8	34.8	+ 5.3
43	Mayer 622	9	27 28.79	0.05	26.40	15 27 2.34	3.49	58 11 32.62	52.95	88.72	19 20 18.8	18.2	5.6
44	γ Libræ	7	30 32.37	0.03	26.40	15 30 5.94	3.38	53 19 18.70	40.08	73.98	14 27 50.2	50.6	4.2
45	42 Libræ	9	34 59.24	0.06	26.41	15 34 32.77	3.64	62 21 1.85	22.82	105.00	23 30 4.3	4.4	5.8
46	κ Libræ	9	36 47.91	0.05	26.41	15 36 21.45	3.53	58 12 57.85	21.05	88.84	19 21 44.2	46.5	4.8
47	η Libræ	9	39 3.39	−0.04	−26.42	15 38 36.93	−3.44	54 13 7.60	29.32	76.44	−15 21 41.5	42.4	+ 3.6
48	β Serpentis	9	42 9.03	+0.07	**−26.35**	15 41 42.68	−2.86	23 8 31.78	53.72	23.61	+15 43 47.0	46.0	− 3.5
49	μ Serpentis	9	44 59.87	0.00	**26.40**	15 44 33.44	3.18	41 59 42.22	4.25	49.68	− 3 7 49.4	50.5	+ 0.6
50	λ Libræ	9	48 8.67	−0.05	26.43	15 47 42.19	3.60	58 43 42.82	3.55	90.68	19 52 31.0	30.8	3.9
51	ρ Scorpii	9	51 20.26	0.08	26.44	15 50 53.74	3.89	67 46 13.40	35.35	134.30	28 55 45.1	46.2	5.2
52	π Scorpii	9	53 25.59	0.07	26.44	15 52 59.08	3.79	64 40 44.98	6.95	116.20	25 49 58.6	59.7	4.4
53	δ Scorpii	9	55 2.43	−0.06	−26.45	15 54 35.92	−3.69	61 11 40.12	1.45	100.15	−22 20 37.7	38.2	+ 3.7
54	151 H^{1}. Cephei S. P.	9	6 9.40	−2.36	−26.47	4 5 40.57	−0.85	304 11 40.40	0.98	80.93	+85 17 36.0	35.8	+11.9
55	σ^2 Coronæ Borealis	9	11 29.59	+0.14	**26.49**	16 11 3.25	2.74	4 46 5.25	27.15	4.65	+34 6 32.3	31.5	− 7.9
56	ε Ophiuchi	6	13 37.90	0.00	**−26.48**	16 13 11.41	−3.32	43 19 1.85	22.98	52.11	− 4 27 11.5	11.7	− 1.4

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
23 16 34	75.94	15.5	14.2
17 3	.....	....	15.1
17 31	75.96	15.5	15.0
26 14 23	75.00	23.0	22.0
14 55	.....	....	21.2
15 25	75.06	21.5	20.6
16 3	.....	....	20.0
16 34	75.07	20.5	19.8

Bisections are made at II and V, except as noted below.

5. Bisection at II.
6. Bisections at IV, V.
15, 29. Bisections at III, V.
16. Bisections at III, VI.
24. Bisection at V.
40. Bisections at IV, VI.
54. Bisections at V, III.

Notes.

1–18. Seeing 2.
4. Unsteady; poor observation.
6. Observed head south.
18. South star observed.
19–23. Seeing 3.
22. Circle A read on 44′ division
27. Circle A read on 2′ division.
42. Circle A read on 14′ division.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1–23, from nadir......	+2	30.50	9.39
24–56, from nadir......	+2	30.49	9.65

1902 JULY 8. CLAMP EAST.

UPDEGRAFF, OBSERVER.

HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	β Libræ	9	12 12.08	0.00	−**25.05**	15 11 47.02	− 3.10	47 53 3.12	23.98	60.02	− 9 1 20.4	20.5	+ 3.7
2	o² Libræ	9	18 2.06	−0.02	25.06	15 17 36.98	3.27	53 38 37.08	59.10	73.70	−14 47 8.0	9.3	+ 4.9
3	μ Bootis	9	21 14.55	+0.20	**25.12**	15 20 49.68	2.33	1 9 17.32	38.18	1.14	+37 43 24.0	24.1	− 9.3
4	β Coronæ Borealis	8	24 14.69	0.15	**25.05**	15 23 49.77	2.47	9 25 50.10	10.80	9.06	+29 26 43.4	43.6	7.7
5	μ Serpentis	9	44 58.45	+0.02	**25.06**	15 44 33.40	3.12	41 59 42.30	3.92	49.00	− 3 7 48.6	49.4	− 0.5
6	λ Libræ	9	48 7.24	−0.03	−25.07	15 47 42.14	− 3.55	58 43 43.42	4.30	89.41	−19 52 30.0	30.2	+ 3.7
7	ρ Scorpii	9	51 18.84	−0.06	−25.07	15 50 53.71	− 3.84	67 46 16.35	37.50	132.40	−28 55 45.9	46.3	+ 5.7
8	π Scorpii	9	53 24.08	0.05	25.07	15 52 58.96	3.74	64 40 47.58	9.65	114.60	25 49 59.3	60.7	4.7
9	δ Scorpii	9	55 0.91	−0.04	25.07	15 54 35.80	3.65	61 11 41.62	3.10	98.72	−22 20 37.5	38.3	+ 3.6
10	r Herculis	9	57 17.86	+0.10	25.07	15 56 52.89	2.81	20 46 54.08	14.92	20.69	+18 5 27.8	27.9	− 6.6
11	β¹ Scorpii	9	0 12.86	−0.03	25.07	15 59 47.76	3.59	58 23 30.38	51.50	88.27	−19 32 15.8	16.2	+ 2.5
12	ω² Scorpii	9	2 8.04	−0.03	−25.07	16 1 42.94	3.63	59 27 28.92	49.00	92.04	−20 36 18.2	17.5	+ 2.6
13	151 H¹. Cephei S. P.	9	6 10.80	−2.68	−25.07	4 5 43.05	− 3.55	304 11 36.98	57.95	79.74	+85 17 33.6	33.7	+14.3
14	σ² Coronæ Borealis	9	11 28.12	+0.17	**25.15**	16 11 3.21	2.64	4 46 3.10	24.42	4.58	+34 6 34.8	34.5	−10.5
15	ε Ophiuchi	9	13 36.41	+0.02	**25.04**	16 13 11.35	3.29	43 19 2.10	23.50	51.34	− 4 27 10.7	11.3	− 2.4
16	σ Scorpii	9	15 42.69	−0.05	25.08	16 15 17.56	3.82	64 12 19.02	42.02	112.20	25 21 28.4	30.7	+ 2.4
17	ψ Ophiuchi	9	18 50.78	0.03	25.08	16 18 25.67	3.67	58 39 44.48	3.92	89.23	19 48 30.9	29.6	0.8
18	χ Ophiuchi	9	21 49.25	−0.02	−25.08	16 21 24.15	− 3.63	57 5 21.45	42.65	84.00	−18 14 2.6	3.1	+ 0.2
19	α Scorpii	9	23 52.86	−0.05	−25.08	16 23 27.73	− 3.89	65 3 37.78	1.40	116.60	−26 12 51.5	54.4	+ 1.7
20	φ Ophiuchi	9	26 0.34	−0.02	25.08	16 25 35.24	3.60	55 15 20.38	42.88	78.43	−16 23 56.0	57.8	− 0.6
21	34 Herculis	9	27 51.84	+0.26	25.08	16 27 27.02	2.55	349 42 11.55	32.00	9.85	+49 10 40.9	41.3	−13.0
22	τ Scorpii	9	30 15.86	−0.05	25.08	16 29 50.73	3.97	66 51 22.10	43.30	126.85	−28 0 46.1	46.6	+ 1.5
23	ζ Ophiuchi	9	32 14.21	0.00	**25.05**	16 31 49.13	3.47	49 13 44.28	4.98	63.15	10 22 4.7	4.6	− 2.5
24	Bradley 2115	9	36 36.76	−0.03	−25.08	16 36 11.65	− 3.74	58 35 24.78	45.62	89.10	−19 44 11.1	11.2	− 0.8
25	15 Ophiuchi	9	39 43.88	−0.04	−25.08	16 39 18.76	− 3.84	61 51 5.55	26.90	101.60	−23 0 4.3	5.0	− 0.5
26	18 Ophiuchi	9	44 15.35	0.04	25.08	16 43 50.23	3.90	63 19 1.35	22.42	108.15	24 28 6.7	7.0	0.6
27	24 Ophiuchi	9	51 22.27	−0.04	25.08	16 50 57.15	3.88	61 50 39.60	1.20	101.70	−22 59 38.5	39.4	1.6
28	κ Ophiuchi	9	53 29.88	+0.06	**25.04**	16 53 4.86	3.16	29 20 25.40	45.80	30.71	+ 9 31 46.5	47.0	8.0
29	ε Ursæ Minoris	5	56 26.24	+1.49	25.08	16 56 2.65	3.00	316 41 21.95	43.55	51.31	+82 12 12.1	10.7	14.8
30	31 Ophiuchi	9	59 10.76	−0.04	−25.08	16 58 45.64	− 3.98	64 21 6.75	27.95	113.26	−25 30 17.3	17.6	− 2.0
31	η Ophiuchi	9	5 14.21	−0.01	−25.09	17 4 49.11	− 3.71	54 27 35.58	.....	76.35	−15 36 9.2	....	− 4.5
32	A Ophiuchi	9	9 48.32	−0.04	25.09	17 9 23.19	4.02	65 18 10.82	32.48	118.30	−26 27 26.3	27.2	2.3
33	π Herculis	9	12 5.83	+0.17	**25.10**	17 11 40.91	2.91	1 57 18.68	39.00	1.90	+36 55 22.1	22.6	12.5
34	θ Ophiuchi	9	16 28.44	−0.04	25.09	17 16 3.31	4.00	63 44 55.20	17.50	110.40	−24 54 2.8	4.3	3.8
35	b Ophiuchi	8	20 52.23	0.03	25.09	17 20 27.11	3.99	62 55 59.50	21.50	106.60	24 5 3.3	4.5	4.4
36	ξ Serpentis	9	32 27.30	−0.01	**25.09**	17 32 2.20	− 3.75	54 11 33.65	54.45	75.70	−15 20 6.6	6.6	− 6.8

1902 JULY 9. CLAMP EAST.

UPDEGRAFF, OBSERVER.

HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
37	o² Libræ	9	18 1.88	−0.02	−24.88	15 17 36.98	− 3.26	53 38 38.15	59.42	73.40	−14 47 8.9	8.8	+ 4.8
38	μ Bootis	9	21 14.32	+0.20	**24.91**	15 20 49.64	2.31	1 9 17.02	38.40	1.13	+37 43 24.2	24.4	− 9.5
39	β Coronæ Borealis	9	24 14.48	+0.16	**24.86**	15 23 49.76	2.46	9 25 49.55	10.90	9.02	+29 26 43.9	44.0	− 7.9
40	Mayer 622	9	27 27.16	−0.04	24.88	15 27 2.24	3.41	58 11 33.75	54.80	87.06	−19 20 18.1	17.9	+ 5.4
41	α Coronæ Borealis	9	30 59.58	+0.14	−**24.87**	15 30 34.84	− 2.55	11 49 44.55	5.10	11.37	+27 2 46.5	47.4	− 7.4

1902 JULY 10. CLAMP EAST.

UPDEGRAFF, OBSERVER.

HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
42	μ Bootis	9	21 14.19	+0.22	−**24.82**	15 20 49.64	− 2.29	1 9 16.18	38.62	1.15	+37 43 24.7	24.2	− 9.7
43	32 Libræ	9	23 11.81	−0.05	24.77	15 22 46.99	3.31	55 13 57.78	19.60	79.52	−16 22 34.9	35.1	+ 4.9
44	Mayer 622	9	27 27.04	0.06	24.77	15 27 2.21	3.41	58 11 31.10	52.72	88.98	19 20 17.7	17.7	5.4
45	γ Libræ	9	30 30.69	0.04	24.77	15 30 5.88	3.30	53 19 17.52	40.05	74.18	14 27 49.3	50.2	3.7
46	42 Libræ	9	34 57.54	0.08	24.77	15 34 32.69	3.57	62 21 1.10	23.20	105.30	23 30 4.0	4.5	5.9
47	κ Libræ	9	36 46.21	−0.06	−24.77	15 36 21.38	− 3.45	58 12 57.92	19.88	89.10	−19 21 44.6	45.0	+ 4.6

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
8 15 15	76.01	29.3	28.4
15 43	.....	....	27.8
16 17	76.00	28.5	27.6
16 58	.....	....	26.8
17 31	76.00	27.5	26.3
9 15 16	75.70	29.6	28.3
15 37	.....	.....	28.3
10 15 20	75.82	24.3	22.6

Bisections are made at II and V, except as noted below.

13. Bisections at V, III.
21, 30, 33. Bisections at III, V.
29. Bisections at IV, V.
31. Bisection at II.

Notes.

1–36. Seeing 4, down south.
16. Second bisection doubtful.
32. North star observed.
42–47. Seeing 3.
43. Circle A read on 14′ division.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1–36, from nadir......	+2	30.30	9.48
37–41, from nadir......	2	30.39	9.05
42–47, from nadir......	+2	30.72	9.02

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	η Libræ	9	39 1.68	−0.04	−24.77	15 38 36.87	− 3.37	54 13 6.70	30.02	76.66	−15 21 41.0	42.7	+ 3.2
2	β Serpentis	9	42 7.27	+0.10	**24.72**	15 41 42.60	2.76	23 8 29.68	52.52	23.69	+15 43 48.8	47.8	− 5.5
3	u Serpentis	9	44 58.16	+0.01	**24.77**	15 44 33.40	3.11	41 59 41.00	2.90	49.83	− 3 7 48.5	48.8	− 0.7
4	λ Libræ	9	48 6.94	−0.06	24.77	15 47 42.11	3.53	58 43 41.20	2.58	90.95	19 52 29.8	29.5	+ 3.7
5	ρ Scorpii	9	51 18.58	0.11	24.77	15 50 53.70	3.83	67 46 12.22	35.75	134.70	28 55 44.5	46.4	5.8
6	π Scorpii	9	53 23.89	−0.09	−24.77	15 52 59.03	− 3.73	64 40 44.02	7.30	116.60	−25 49 58.2	59.9	+ 4.8
7	δ Scorpii	9	55 0.74	−0.07	−24.77	15 54 35.90	− 3.63	61 11 39.65	2.05	100.40	−22 20 37.6	38.4	+ 3.6
8	r Herculis	9	57 17.53	+0.11	24.78	15 56 52.86	2.80	20 46 53.25	16.02	21.05	+18 5 27.9	26.9	− 6.9
9	β^1 Scorpii	9	0 12.67	−0.06	24.78	15 59 47.83	3.57	58 23 27.98	50.55	89.80	−19 32 15.4	16.3	+ 2.5
10	ω^2 Scorpii	9	2 7.82	0.06	24.78	16 1 42.98	3.62	59 27 26.30	48.98	93.65	−20 36 17.6	18.6	2.6
11	151 H^1. Cephei S. P.	9	6 11.91	−3.29	24.78	4 5 43.84	3.95	304 11 37.58	0.00	81.15	+85 17 33.2	33.9	+14.6
12	σ^2 Coronæ Borealis	9	11 27.77	+0.20	−**24.85**	16 11 3.19	− 2.62	4 46 2.05	24.72	4.66	+34 6 35.4	34.5	−10.9
13	ε Ophiuchi	9	13 36.17	+0.01	−**24.80**	16 13 11.39	− 3.28	43 19 0.60	23.38	52.24	− 4 27 10.5	11.6	− 2.6
14	σ Scorpii	9	15 42.46	−0.09	24.79	16 15 17.58	3.81	64 12 16.95	40.60	114.20	25 21 28.7	30.8	+ 2.4
15	ψ Ophiuchi	9	18 50.46	0.06	24.79	16 18 25.61	3.66	58 39 41.55	2.60	90.80	19 48 30.0	29.4	0.8
16	χ Ophiuchi	9	21 49.00	0.06	24.79	16 21 24.15	3.62	57 5 19.32	42.28	85.47	18 14 2.4	3.8	0.2
17	α Scorpii	9	23 52.63	0.09	24.79	16 23 27.75	3.88	65 3 36.75	0.30	118.65	26 12 53.0	54.9	− 1.7
18	φ Ophiuchi	9	26 0.10	−0.05	−24.80	16 25 35.25	− 3.59	55 15 18.60	41.30	79.76	−16 23 56.0	57.1	− 0.7
19	34 Herculis	9	27 51.46	+0.32	−24.80	16 27 26.98	− 2.52	349 42 10.62	32.68	10.02	+49 10 41.6	41.2	−13.5
20	τ Scorpii	9	30 15.64	−0.10	24.80	16 29 50.74	3.96	66 51 19.72	41.68	129.00	−28 0 46.3	46.7	− 1.5
21	ζ Ophiuchi	9	32 13.95	0.02	**24.77**	16 31 49.13	3.47	49 13 42.30	4.78	64.24	10 22 4.2	5.0	2.7
22	Bradley 2115	9	36 36.52	0.06	24.80	16 36 11.66	3.73	58 35 23.20	46.15	90.57	19 44 11.4	12.7	0.9
23	15 Ophiuchi	9	39 43.65	0.08	24.81	16 39 18.76	3.84	61 51 4.68	26.48	103.30	23 0 5.6	5.8	0.5
24	18 Ophiuchi	9	44 15.17	−0.08	−24.81	16 43 50.28	3.90	63 18 59.25	20.78	109.90	−24 28 6.7	6.7	− 0.6
25	49 Herculis	9	48 4.86	+0.09	−**24.76**	16 47 40.13	− 3.06	23 43 48.20	12.35	24.41	+15 8 29.6	27.2	− 9.0
26	24 Ophiuchi	9	51 22.06	−0.08	24.82	16 50 57.16	3.88	61 50 39.20	0.98	103.30	−22 59 40.1	40.3	1.6
27	κ Ophiuchi	9	53 29.61	+0.07	**24.78**	16 53 4.86	3.16	29 20 24.70	44.42	31.20	+ 9 31 46.3	48.4	8.2
28	ε Ursæ Minoris	8	56 25.01	+1.98	24.82	16 56 2.17	2.79	316 41 22.08	43.90	52.13	+82 12 12.3	11.6	15.3
29	31 Ophiuchi	9	59 10.59	−0.09	24.83	16 58 45.67	3.98	64 21 4.78	27.80	115.10	−25 30 17.6	18.9	1.9
30	η Ophiuchi	9	5 13.96	−0.04	−24.83	17 4 49.09	− 3.71	54 27 34.58	57.10	77.53	−15 36 9.8	10.6	− 4.5
31	A Ophiuchi	9	9 48.13	−0.10	−24.84	17 9 23.19	− 4.02	65 18 12.38	35.68	120.10	−26 27 30.0	31.8	− 2.3
32	π Herculis	9	12 5.58	+0.22	**24.92**	17 11 40.96	2.89	1 57 17.40	39.60	1.93	+36 55 22.7	22.4	13.0
33	ϑ Ophiuchi	9	16 28.28	−0.09	24.85	17 16 3.34	4.00	63 44 53.18	16.52	112.05	−24 54 2.8	4.6	3.8
34	b Ophiuchi	9	20 51.95	0.08	24.86	17 20 27.01	3.99	62 55 55.80	20.10	108.20	24 5 1.6	4.3	4.4
35	51 Ophiuchi	9	25 55.02	0.08	24.86	17 25 30.08	3.99	62 44 3.02	26.15	107.30	23 53 7.9	9.4	4.9
36	ξ Serpentis	9	32 27.04	−0.04	−**24.80**	17 32 2.13	3.75	54 11 32.10	54.98	76.79	−15 20 6.5	7.8	− 6.9

1902 JULY 11. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
37	σ Scorpii	9	15 42.42	−0.09	−**24.71**	16 15 17.62	− 3.81	64 12 16.48	39.28	115.30	−25 21 30.1	30.5	− 2.4
38	ρ Ophiuchi	9	20 10.99	0.08	**24.76**	16 19 46.20	3.76	62 4 17.42	39.52	105.20	23 13 21.0	20.8	1.5
39	τ Scorpii	9	30 15.54	0.10	**24.67**	16 29 50.73	3.96	66 51 19.50	41.32	130.30	28 0 48.0	47.8	− 1.6
40	Bradley 2115	9	36 36.43	0.06	24.71	16 36 11.66	3.72	58 35 22.38	45.80	91.50	19 44 12.2	13.6	− 0.9
41	15 Ophiuchi	9	39 43.52	0.08	24.71	16 39 18.73	3.83	61 51 3.70	25.10	104.35	23 0 6.3	5.7	0.5
42	O. A. 15982	9	43 42.63	−0.07	−24.71	16 43 17.85	− 3.76	59 8 7.52	27.68	93.52	−20 16 59.2	57.6	− 1.4
43	O. A. 16091	9	49 15.71	−0.07	−24.71	16 48 50.93	− 3.82	60 34 11.65	32.70	99.06	−21 43 8.9	8.1	1.7
44	24 Ophiuchi	9	51 21.97	0.08	24.71	16 50 57.18	3.87	61 50 37.38	59.05	104.40	22 59 39.9	39.8	1.6
45	Lal. 30869	9	55 7.81	0.07	24.71	16 54 43.03	3.83	60 9 48.52	9.12	97.48	21 18 44.2	43.1	2.4
46	Lal. 30946	9	57 55.10	0.08	24.71	16 57 30.31	3.89	61 51 34.90	56.60	104.50	23 0 37.6	37.6	2.3
47	Bradley 2162	9	0 49.26	0.07	24.71	17 0 24.48	3.85	60 16 46.58	6.78	97.97	21 25 42.7	41.2	2.9
48	O. A. 16358	9	3 6.83	−0.08	−24.71	17 2 42.04	− 3.91	61 56 47.20	8.90	104.90	−23 5 50.3	50.4	2.8
49	Lal. 31247	9	6 57.04	−0.08	−24.71	17 6 32.25	− 3.91	61 39 16.98	37.72	103.65	−22 48 18.7	17.9	3.2
50	O. A. 16586	9	13 28.64	0.08	24.71	17 13 3.85	3.92	61 27 8.32	29.32	102.80	22 36 9.2	8.7	3.9
51	ξ Ophiuchi	9	15 36.43	0.07	24.71	17 15 11.65	3.88	59 51 30.90	51.10	96.40	21 0 25.4	24.2	4.4
52	Lal. 31556	9	17 46.01	0.08	24.71	17 17 21.22	3.94	61 45 48.92	10.82	104.20	22 54 51.2	51.7	4.3
53	b Ophiuchi	9	20 51.88	0.08	24.71	17 20 27.09	3.98	62 55 55.70	17.68	109.40	24 5 3.2	3.7	4.4
54	O. A. 16823	9	23 15.42	−0.08	−24.71	17 22 50.63	− 3.94	61 20 54.65	16.75	102.40	−22 29 55.1	55.8	4.9

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
10 15 59	.....	....	22.2
16 34	75.89	23.5	22.1
17 1	.....	....	22.0
17 34	75.92	23.2	22.0
11 16 12	76.08	21.7	20.2
16 46	.....	....	19.8
17 11	76.06	21.0	19.4

Bisections are made at II and V, except as noted below.

11. Bisections at V, III.
19, 29. Bisections at III, V.
28. Bisections at IV, V.

Notes.

1–54. Seeing 3.
31. South star observed.

Adopted Zenith Point Corrections.

		A.	B.
	°	″	″
1–36, from nadir	+2	30.72	9.02
37–54, from stars		*	*

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
37	31.8	8.9
38	[26.8]	[4.6]
39	31.4	9.4

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0.	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	51 Ophiuchi	9	25 54.93	—0.08	—24.71	17 25 30.14	— 3.99	62 44 2.48	24.00	108.55	—23 53 9.1	9.3	— 4.9
2	52 Ophiuchi	9	29 53.46	0.08	24.71	17 29 28.67	3.94	60 49 38.30	58.55	100.25	21 58 36.6	35.6	5.6
3	C. P. D.—23° 6620	9	32 18.33	0.08	24.71	17 31 53.54	3.98	62 10 32.60	55.40	106.00	23 19 36.7	38.2	5.6
4	Piazzi XVII, 173	9	35 19.93	0.08	24.71	17 34 55.14	4.00	62 37 48.72	10.62	108.10	23 46 54.9	55.5	5.9
5	58 Ophiuchi	9	38 2.14	0.07	24.71	17 37 37.36	3.94	60 29 6.68	27.15	98.90	21 38 3.7	2.8	6.4
6	O. A. 17155	9	39 37.27	—0.08	—24.71	17 39 12.48	— 3.98	61 41 38.95	0.15	103.90	—22 50 40.9	40.8	— 6.4
7	O. A. 17263	9	45 14.05	—0.07	—24.71	17 44 49.27	— 3.96	60 45 1.18	22.88	100.00	—21 53 59.2	59.7	— 7.1
8	63 Ophiuchi	9	49 20.94	0.09	24.71	17 48 56.14	4.06	63 42 45.10	8.52	113.30	24 51 56.3	58.7	7.1
9	Lal. 32742	9	51 0.57	0.08	24.71	17 50 35.78	4.01	62 13 15.60	38.15	106.30	23 22 19.9	21.4	7.5
10	4 Sagittarii	9	54 17.33	0.08	24.71	17 53 52.54	4.03	62 39 13.10	33.98	108.25	23 48 19.3	19.2	7.7
11	Mayer 728	9	56 26.92	0.08	24.71	17 56 2.13	4.00	61 37 30.58	52.48	103.65	22 46 32.2	33.1	8.1
12	Piazzi XVII, 342	9	59 38.74	—0.08	—24.71	17 59 13.95	— 4.06	63 14 56.50	19.15	111.05	—24 24 5.5	7.2	— 8.2
13	Mayer 734	9	1 47.42	—0.07	—24.71	18 1 22.64	— 3.97	60 18 11.28	31.48	98.24	—21 27 7.5	6.7	— 8.7
14	Bradley 2276	9	6 13.37	0.08	24.71	18 5 48.58	4.04	62 34 1.32	23.28	107.90	23 43 7.2	8.1	8.9
15	μ Sagittarii	9	8 22.87	0.07	**24.70**	18 7 58.09	3.96	59 56 2.50	22.28	96.83	21 4 57.3	56.1	9.4
16	δ Sagittarii	9	15 12.30	0.11	**24.73**	18 14 47.48	4.25	68 42 20.02	40.70	143.30	29 52 1.2	1.1	9.2
17	λ Sagittarii	9	22 24.28	0.09	**24.73**	18 21 59.48	4.09	64 19 8.78	30.92	116.50	25 28 23.2	24.5	10.3
18	24 Sagittarii	9	28 23.14	—0.08	—24.71	18 27 58.35	— 4.06	62 57 1.70	23.85	109.80	—24 6 9.4	10.7	—11.0
19	Bradley 2332	9	32 31.09	—0.07	—24.71	18 32 6.31	— 3.98	60 19 37.38	57.35	98.47	—21 28 33.7	32.9	—11.5
20	26 Sagittarii	9	36 21.84	0.08	24.71	18 35 57.05	4.05	62 46 11.22	32.98	109.00	23 55 18.1	19.1	11.7
21	Piazzi XVIII, 155	9	39 17.02	0.09	24.71	18 38 52.22	4.08	63 57 9.35	31.40	114.70	25 6 21.9	23.3	11.9
22	O. A. 18667	9	42 27.66	0.08	24.71	18 42 2.87	4.03	62 12 31.45	53.18	106.45	23 21 35.8	36.8	12.3
23	Lal. 35010	9	46 20.51	0.09	24.71	18 45 55.71	4.07	63 36 46.40	8.10	113.05	24 45 57.3	58.3	12.6
24	ν^1 Sagittarii	9	48 44.00	—0.08	—24.71	18 48 19.21	— 4.01	61 42 40.02	2.45	104.30	—22 51 42.2	43.9	—12.9
25	C. P. D.—24° 6555	9	51 40.40	—0.08	—24.71	18 51 15.61	— 4.04	62 50 16.22	37.30	109.40	—23 59 23.5	23.8	—13.1
26	Mayer 779	9	56 2.13	0.08	24.71	18 55 47.34	4.00	61 40 44.90	6.58	104.20	22 49 47.0	47.9	13.5
27	o Sagittarii	9	59 17.48	0.07	24.72	18 58 52.69	3.98	60 43 54.85	16.72	100.30	21 52 53.0	54.1	13.8
28	O. A. 19141	9	4 6.62	0.08	24.72	19 3 41.82	3.99	61 22 45.92	8.82	103.05	22 31 46.8	48.9	14.2
29	Lal. 36016	9	8 45.54	0.08	24.72	19 8 20.74	3.97	61 4 23.70	44.40	101.80	22 13 23.4	23.3	14.6
30	ψ Sagittarii	7	10 0.76	—0.09	—**24.70**	19 9 35.95	— 4.05	64 16 2.92	.....	116.60	—25 25 17.5	....	—14.7
31	d Sagittarii	9	12 22.73	—0.06	—**24.69**	19 11 57.95	— 3.89	57 58 36.40	56.82	90.05	—19 7 24.3	23.9	—15.1
32	h Sagittarii	9	31 13.48	0.09	**24.73**	19 30 48.66	4.01	63 56 30.18	52.22	115.10	25 5 43.1	44.3	16.5
33	f Sagittarii	9	41 7.43	0.07	**24.74**	19 40 42.62	3.85	58 50 41.08	0.32	93.30	19 59 32.3	30.5	17.0
34	Lal. 37659	9	44 54.38	0.08	24.74	19 44 29.56	3.92	61 52 13.00	35.35	105.50	23 1 16.4	17.6	17.4
35	Lal. 38048	9	54 14.45	0.08	24.75	19 53 49.62	3.88	61 19 19.28	39.65	103.10	22 28 20.2	19.5	18.1
36	62 Sagittarii	9	57 6.87	—0.10	—**24.77**	19 56 42.01	— 4.00	66 49 8.20	30.02	131.40	—27 58 37.4	38.1	—18.7
37	4 Capricorni	9	12 44.65	—0.08	—**24.78**	20 12 19.80	— 3.81	60 57 28.45	49.18	101.60	—22 6 27.9	27.3	—19.3
38	π Capricorni	9	22 11.30	—0.06	—**24.77**	20 21 46.45	— 3.71	57 22 52.80	15.38	88.25	—18 31 39.0	39.9	—19.6
	UPDEGRAFF, OBSERVER.					1902 JULY 12.		CLAMP EAST.				HAMMOND, ASSISTANT.	
39	151 H^{1}. Cephei s.p.	9	6 11.28	—2.71	—24.69	4 5 43.88	— 4.41	304 11 38.42	59.65	81.25	+85 17 33.4	33.1	+14.9
40	σ Scorpii	9	15 42.35	0.07	**24.66**	16 15 17.59	3.81	64 12 17.82	40.18	114.40	—25 21 30.8	30.7	2.4
41	ρ Ophiuchi	9	20 10.94	0.06	**24.73**	16 19 46.19	3.76	62 4 18.40	40.02	104.40	23 13 21.3	20.6	1.5
42	τ Scorpii	9	30 15.52	0.08	**24.67**	16 29 50.75	3.96	66 51 20.25	42.30	129.30	28 0 47.7	47.7	+ 1.6
43	Bradley 2115	9	36 36.45	0.05	24.69	16 36 11.71	3.72	58 35 23.82	45.35	90.80	19 44 12.7	12.2	— 0.9
44	15 Ophiuchi	9	39 43.53	—0.06	—24.69	16 39 18.78	— 3.83	61 51 4.05	25.60	103.60	—23 0 5.6	5.3	— 0.5
45	O. A. 15982	9	43 42.71	—0.05	—24.69	16 43 17.97	— 3.76	59 8 8.10	28.02	92.81	—20 16 58.8	56.9	— 1.5
46	O. A. 16091	9	49 15.67	0.06	24.69	16 48 50.92	3.82	60 34 13.02	33.28	98.31	21 43 9.1	7.7	1.7
47	24 Ophiuchi	9	51 21.97	0.06	24.69	16 50 57.22	3.87	61 50 38.38	0.38	103.60	22 59 39.7	40.1	1.7
48	Lal. 30869	9	55 7.78	0.05	24.69	16 54 43.04	3.83	60 9 49.45	10.28	96.76	21 18 43.9	43.0	2.4
49	Lal. 30946	9	57 55.10	0.06	24.69	16 57 30.35	3.89	61 51 35.75	57.35	103.70	23 0 37.1	37.0	2.3
50	Bradley 2162	9	0 49.27	—0.05	—24.69	17 0 24.53	— 3.85	60 16 47.42	8.68	97.23	—21 25 42.2	41.9	— 2.9

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
11 17 53	.....	....	19.1
18 17	76.06	20.4	18.9
18 45	76.06	19.7	18.4
19 17	76.05	19.0	17.6
19 47	.....	....	17.1
20 18	76.01	18.4	16.9
12 16 5	75.83	23.1	21.8
16 38	.....	....	21.2

Bisections are made at II and V, except as noted below.

30. Bisection at IV.
39. Bisections at V, III.

Notes.

1–38. Seeing 3.
6. Second bisection poor.
25. Observed n. p. star; mag. 9.2.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1–38, from stars		*	*
39, from nadir	+2	30.18	8.67
40–50, from stars		*	*

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
15	29.2	9.3
16	32.5	11.6
17	31.6	9.3
30	31.6	....
31	30.6	10.1
32	31.7	9.5
33	30.3	11.0
36	31.8	9.8
37	29.8	8.9
38	31.4	8.8
40	31.3	8.9
41	[26.6]	[4.9]
42	31.6	9.4

NO.	NAME.		THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
									A.	B.		A.	B.	
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		O. A. 16358	9	3 6.79	−0.06	−24.68	17 2 42.05	− 3.91	61 56 48.68	10.30	104.15	−23 5 50.4	50.4	− 2.8
2		Lal. 31247	9	6 57.04	0.06	24.68	17 6 32.30	3.91	61 39 17.68	38.85	102.90	22 48 18.1	17.7	3.2
3		O. A. 16586	9	13 28.63	0.06	24.68	17 13 3.89	3.92	61 27 9.25	29.75	102.10	22 36 8.8	7.8	3.9
4	ξ	Ophiuchi	9	15 36.40	0.05	24.68	17 15 11.67	3.88	59 51 31.80	51.90	95.70	21 0 24.9	23.6	4.4
5		Lal. 31556	9	17 45.95	0.06	24.68	17 17 21.21	3.94	61 45 50.02	11.20	103.40	22 54 50.8	50.6	4.3
6	b	Ophiuchi	9	20 51.79	−0.06	−24.68	17 20 27.05	− 3.98	62 55 57.58	19.05	108.65	−24 5 3.6	3.7	− 4.4
7		O. A. 16823	9	23 15.38	−0.06	−24.68	17 22 50.64	− 3.94	61 20 55.88	16.85	101.70	−22 29 54.8	54.5	− 4.9
8	51	Ophiuchi	9	25 54.89	0.06	24.68	17 25 30.15	3.99	62 44 3.58	24.75	107.80	23 53 8.6	8.4	4.9
9	52	Ophiuchi	9	29 53.39	0.06	24.68	17 29 28.65	3.94	60 49 39.55	59.58	99.54	21 58 36.4	35.0	5.6
10		C. P. D. −23° 6620	9	32 18.32	0.06	24.68	17 31 53.58	3.98	62 10 34.72	55.88	105.25	23 19 37.1	37.0	5.7
11		Piazzi XVII, 173	9	35 19.92	0.06	24.68	17 34 55.18	4.00	62 37 50.62	12.58	107.30	23 46 55.1	55.7	5.9
12	58	Ophiuchi	9	38 2.10	−0.05	−24.68	17 37 37.37	− 3.94	60 29 7.60	28.02	98.22	−21 38 3.0	2.1	− 6.5
13		O. A. 17155	9	39 37.24	−0.06	−24.68	17 39 12.50	− 3.98	61 41 39.88	0.85	103.20	−22 50 40.2	39.9	− 6.4
14		O. A. 17263	9	45 14.07	0.06	24.68	17 44 49.33	3.96	60 45 2.15	23.68	99.31	21 53 58.5	58.9	7.1
15	63	Ophiuchi	9	49 20.96	0.07	24.68	17 48 56.21	4.06	63 42 46.12	8.75	112.50	24 51 55.7	57.1	7.1
16		Lal. 32742	9	51 0.59	0.06	24.68	17 50 35.85	4.02	62 13 17.15	39.78	105.55	23 22 19.7	21.2	7.5
17	4	Sagittarii	9	54 17.31	0.06	24.68	17 53 52.57	4.03	62 39 14.02	34.75	107.50	23 48 18.5	18.1	7.7
18		Mayer 728	9	56 26.89	−0.06	−24.68	17 56 2.15	4.00	61 37 32.18	53.30	102.95	−22 46 32.1	32.0	− 8.1
19		Piazzi XVII, 342	9	59 38.72	−0.07	−24.68	17 59 13.97	− 4.06	63 14 57.58	20.32	110.30	−24 24 4.7	6.4	− 8.2
20		Mayer 734	9	1 47.39	0.05	24.68	18 1 22.66	3.97	60 18 11.72	32.20	97.59	21 27 6.2	5.6	8.8
21		Bradley 2276	9	6 13.29	0.06	24.68	18 5 48.55	4.04	62 34 3.15	24.90	107.15	23 43 7.2	7.8	8.9
22	μ	Sagittarii	9	8 22.82	0.05	**24.67**	18 7 58.09	3.96	59 56 3.48	23.48	96.18	21 4 56.5	55.4	9.4
23	δ	Sagittarii	9	15 12.23	0.09	**24.68**	18 14 47.46	4.25	68 42 22.35	42.70	142.40	29 52 1.5	0.8	9.2
24	λ	Sagittarii	9	22 24.21	−0.07	**−24.67**	18 21 59.46	− 4.10	64 19 11.38	32.62	115.70	−25 28 23.8	24.1	−10.2
25	24	Sagittarii	9	28 23.07	−0.06	−24.68	18 27 58.33	− 4.06	62 57 3.82	25.00	109.00	−24 6 9.5	9.7	−11.0
26		Bradley 2332	9	32 31.10	0.05	24.68	18 32 6.37	3.99	60 19 38.20	58.25	97.79	21 28 32.7	31.7	11.8
27	26	Sagittarii	9	36 21.77	0.06	24.68	18 35 57.03	4.06	62 46 13.05	34.92	108.20	23 55 17.9	18.8	11.7
28		Piazzi XVIII, 155	9	39 16.94	0.07	24.68	18 38 52.19	4.09	63 57 11.82	32.95	113.90	25 6 22.4	22.5	11.9
29		O. A. 18667	9	42 27.68	0.06	24.68	18 42 2.94	4.04	62 12 32.68	55.35	105.70	23 21 35.0	36.7	12.3
30		Lal. 35010	9	46 20.41	−0.07	−24.68	18 45 55.66	− 4.08	63 36 49.25	9.92	112.25	−24 45 58.1	57.8	−12.6
31	ν^1	Sagittarii	9	48 43.93	−0.06	−24.68	18 48 19.19	− 4.02	61 42 42.35	4.50	103.55	−22 51 42.5	43.7	−12.9
32	ξ	Sagittarii	9	52 21.76	0.05	24.68	18 51 57.03	3.97	60 5 1.78	23.45	96.92	21 13 55.3	55.9	13.3
33		Mayer 779	9	56 12.05	0.06	24.68	18 55 47.31	4.01	61 40 46.90	8.30	103.40	22 49 46.9	47.3	13.6
34	o	Sagittarii	9	59 17.36	0.06	24.68	18 58 52.62	3.98	60 43 56.65	18.32	99.50	21 52 52.7	53.4	13.9
35		O. A. 19141	9	4 6.58	0.06	24.68	19 3 41.84	4.00	61 22 47.78	9.92	102.20	22 31 46.5	47.7	14.2
36		Lal. 36016	9	8 45.45	−0.06	−24.68	19 8 20.71	− 3.98	61 4 25.55	46.90	100.90	−22 13 22.9	23.4	−14.6
37	ψ	Sagittarii	9	10 0.73	−0.07	**−24.68**	19 9 35.98	− 4.06	64 16 6.22	28.08	115.60	−25 25 18.4	19.2	−14.7
38	d	Sagittarii	9	12 22.74	0.04	**24.71**	19 11 58.02	3.90	57 58 38.25	59.30	89.25	19 7 24.0	24.1	15.1
39	h	Sagittarii	9	31 13.46	0.07	**24.72**	19 30 48.71	4.02	63 56 33.42	55.65	114.00	25 5 43.9	45.1	16.5
40		C. P. D. −21° 7493	9	41 10.71	0.06	24.68	19 40 45.97	3.91	60 36 27.50	48.68	99.06	21 45 23.0	23.2	17.2
41		Lal. 37659	9	44 54.26	0.06	24.68	19 44 29.52	3.93	61 52 14.98	37.08	104.35	23 1 15.7	16.9	17.5
42		O. A. 20018	9	46 37.24	−0.05	−24.68	19 46 12.51	− 3.86	58 47 37.55	58.52	92.17	−19 56 26.1	26.1	−17.5
43		Lal. 38048	9	54 14.38	−0.06	−24.68	19 53 49.64	− 3.89	61 19 20.70	42.28	102.00	−22 28 19.1	19.6	−18.2
44		Lal. 38096	7	55 16.88	0.05	24.68	19 54 52.15	3.84	58 58 23.15	43.72	92.81	20 7 12.5	11.9	18.1
45	62	Sagittarii	9	57 6.74	0.08	**24.64**	19 56 41.98	4.02	66 49 10.68	31.58	130.05	27 58 37.1	37.0	18.6
46	4	Capricorni	9	12 44.58	0.06	**24.71**	20 12 19.84	3.83	60 57 30.70	51.22	100.55	22 6 27.6	27.1	19.4
47	π	Capricorni	9	22 11.16	−0.04	**−24.63**	20 21 46.44	− 3.73	57 22 55.38	16.70	87.30	−18 31 39.0	39.3	−19.7

1902 JULY 22. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
48	151	H^1. Cephei s. p.	9	6 15.36	−2.85	−25.29	4 5 47.22	− 7.05	304 11 36.70	59.00	81.15	+85 17 32.3	32.6	+16.3
49	σ	Scorpii	9	15 42.86	0.08	**25.24**	16 15 17.49	3.73	64 12 17.40	40.05	114.30	−25 21 31.1	30.9	2.5
50	ρ	Ophiuchi	9	20 11.45	0.07	**25.30**	16 19 46.08	3.69	62 4 17.35	40.25	104.30	23 13 21.0	21.1	1.4
51	τ	Scorpii	9	30 16.13	0.09	**25.35**	16 29 50.74	3.88	66 51 18.82	41.92	129.20	28 0 47.3	47.7	+ 1.7
52		Bradley 2115	9	36 36.96	0.06	25.30	16 36 11.60	3.66	58 35 22.10	44.85	90.76	19 44 12.3	12.3	− 1.0
53	15	Ophiuchi	9	39 44.04	−0.07	−25.31	16 39 18.66	− 3.77	61 51 2.85	25.70	103.50	−23 0 5.7	5.9	− 0.5

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
12 17 10	75.83	22.0	20.7
17 47	.....	....	20.3
18 10	75.83	21.1	20.0
18 44	.....	....	19.6
19 14	75.82	20.5	19.4
19 48	.....	....	19.2
20 20	75.80	20.1	19.0
22 15 59	75.74	23.3	21.9
16 38	.....	....	21.2

Bisections are made at II and V, except as noted below.

37. Bisections at III, V.
44. Bisections at IV, V.
48. Bisections at V, III.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–47, from stars		*	*
48, from nadir	+2	30.75	8.75
49–53, from stars	+2	32.5	*

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
22	28.9	8.8
23	31.0	10.6
24	29.9	8.5
37	29.3	7.5
38	29.5	8.4
39	29.5	7.2
45	30.7	9.7
46	28.5	7.9
47	29.7	8.3
49	31.9	9.2
50	[27.7]	[4.7]
51	33.3	10.0

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		O. A. 15999	9	44 33.74	—0.07	—25.31	16 44 8.36	— 3.80	62 7 35.95	58.98	104.75	—23 16 40.1	40.4	— 0.9
2		O. A. 16091	9	49 16.24	0.07	25.31	16 48 50.86	3.77	60 34 10.62	32.70	98.29	21 43 8.3	7.7	1.7
3	24	Ophiuchi	9	51 22.50	0.07	25.31	16 50 57.12	3.82	61 50 37.88	0.00	103.60	22 59 40.9	40.3	1.6
4		Lal. 30869	9	55 8.40	0.06	25.31	16 54 43.03	3.78	60 9 48.30	9.70	96.74	21 18 44.4	43.2	2.4
5		Lal. 30946	9	57 55.63	0.07	25.32	16 57 30.24	3.84	61 51 34.70	57.38	103.70	23 0 37.8	37.8	2.2
6		Bradley 2162	9	0 49.82	—0.06	—25.32	17 0 24.44	— 3.81	60 16 45.70	6.90	97.23	21 25 42.3	40.9	— 2.9
7		O. A. 16358	9	3 7.38	—0.07	—25.32	17 2 41.99	— 3.87	61 56 47.00	9.52	104.15	—23 5 50.5	50.4	— 2.7
8		Lal. 31247	9	6 57.61	0.07	25.32	17 6 32.22	3.87	61 39 15.40	37.50	102.90	22 48 17.7	17.2	3.2
9		O. A. 16586	7	13 29.28	0.07	25.32	17 13 3.89	3.89	61 27 6.98	28.22	102.10	22 36 8.5	7.2	3.9
10	ξ	Ophiuchi	9	15 37.04	0.06	25.32	17 15 11.66	3.85	59 51 29.72	50.22	95.72	21 0 24.8	22.8	4.4
11		Lal. 31556	9	17 46.60	0.07	25.32	17 17 21.21	3.91	61 45 47.15	10.22	103.45	22 54 50.0	50.5	4.2
12	b	Ophiuchi	9	20 52.43	—0.08	—25.33	17 20 27.02	— 3.96	62 55 55.38	18.50	108.70	—24 5 3.4	4.1	— 4.3
13		O. A. 16823	9	23 16.05	—0.07	—25.33	17 22 50.65	— 3.92	61 20 53.32	15.25	101.70	—22 29 54.4	53.8	— 4.8
14	51	Ophiuchi	9	25 55.51	0.08	25.33	17 25 30.10	3.97	62 44 1.82	24.15	107.80	23 53 9.0	8.8	4.8
15	52	Ophiuchi	9	29 54.05	0.07	25.33	17 29 28.65	3.92	60 49 36.90	58.55	99.61	21 58 35.9	35.1	5.6
16		C.P.D.—23° 6620	9	32 18.95	0.07	25.33	17 31 53.55	3.97	62 10 33.25	55.95	105.35	23 19 38.0	38.3	5.6
17		Piazzi XVII, 173	9	35 20.52	0.07	25.33	17 34 55.12	3.99	62 37 47.68	10.12	107.40	23 46 54.4	54.5	5.8
18	58	Ophiuchi	9	38 2.76	—0.07	—25.34	17 37 37.35	— 3.93	60 29 5.48	26.68	98.31	—21 38 3.2	2.0	— 6.5
19		O. A. 17155	9	39 37.87	—0.07	—25.34	17 39 12.46	— 3.97	61 41 37.62	59.42	103.30	—22 50 40.3	39.7	— 6.4
20		O. A. 17263	9	45 14.63	0.07	25.34	17 44 49.22	3.96	60 45 0.42	22.18	99.47	21 53 59.3	58.6	7.1
21	63	Ophiuchi	9	49 21.54	0.08	25.34	17 48 56.12	4.06	63 42 44.82	6.72	112.70	24 51 56.9	56.4	6.9
22		Lal. 32742	9	51 1.24	0.07	25.34	17 50 35.83	4.02	62 13 14.92	37.70	105.75	23 22 20.0	20.5	7.4
23	4	Sagittarii	9	54 17.96	0.07	25.34	17 53 52.55	4.04	62 39 10.92	33.45	107.75	23 48 18.0	18.3	7.6
24		Mayer 728	9	56 27.58	—0.07	—25.34	17 56 2.17	— 4.01	61 37 30.68	52.18	103.25	—22 46 33.3	32.5	— 8.0
25		Piazzi XVII, 342	9	59 39.39	—0.08	—25.35	17 59 13.96	— 4.06	63 14 56.10	19.25	110.60	—24 24 6.1	6.9	— 8.0
26		Mayer 734	9	1 48.09	0.06	25.35	18 1 22.68	3.98	60 18 8.90	31.02	97.86	21 27 6.1	5.9	8.8
27		Bradley 2276	9	6 13.99	0.07	25.35	18 5 48.57	4.06	62 34 0.52	22.98	107.45	23 43 7.3	7.5	8.8
28	μ	Sagittarii	9	8 23.48	0.06	**25.31**	18 7 58.07	3.97	59 56 1.40	22.38	96.45	21 4 57.2	56.0	9.5
29	δ	Sagittarii	9	15 12.92	0.10	**25.34**	18 14 47.47	4.27	68 42 19.45	42.80	142.80	29 52 1.6	2.8	8.7
30	λ	Sagittarii	9	22 24.98	—0.08	**—25.41**	18 21 59.54	— 4.12	64 19 8.28	30.25	116.10	—25 28 23.7	23.5	—10.0

1902 JULY 27. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
31	151	H^1. Cephei S. P.	9	6 17.00	—2.61	**[—25.75]**	4 6	....	304 11 35.22	55.45	79.65	+85 17 31.6	30.6	+16.9
32	β	Herculis	9	26 28.64	+0.11	**[—25.68]**	16 26	....	17 8	.....	.....	+21 42	....	....

1902 JULY 31. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
33	151	H^1. Cephei S. P.	9	6 19.28	—3.22	—26.29	4 5 49.77	— 9.57	304 11 34.90	56.98	80.56	+85 17 31.0	31.0	+17.3
34	σ	Scorpii	9	15 43.82	0.09	**26.30**	16 15 17.44	3.62	64 12 17.50	40.38	113.40	—25 21 30.7	30.7	2.5
35	ρ	Ophiuchi	9	20 12.40	0.08	**26.34**	16 19 46.03	3.59	62 4 18.28	40.60	103.50	23 13 21.7	21.0	1.3
36	τ	Scorpii	9	30 16.94	0.10	**26.24**	16 29 50.55	3.79	66 51 19.92	42.80	128.20	28 0 47.9	48.2	+ 1.8
37		O. A. 15868	9	37 42.44	0.07	26.29	16 37 16.08	3.62	60 0 28.10	49.38	95.24	21 9 23.1	21.8	— 1.0
38		Lal. 30551	9	44 14.26	—0.07	—26.29	16 43 47.90	— 3.67	60 31 52.40	13.65	97.30	—21 40 49.4	48.2	— 1.4
39		Lal. 31255	9	7 17.71	—0.07	—26.30	17 6 51.34	— 3.76	60 20 15.40	37.32	96.63	—21 29 11.6	11.3	— 3.7
40		Lac. 7225	9	12 38.18	0.08	26.30	17 12 11.80	3.86	62 48 44.32	6.50	107.10	23 57 51.0	51.0	3.5
41		Mayer 701	9	19 20.46	0.07	26.30	17 18 54.09	3.81	60 12 1.35	22.95	96.12	21 20 57.0	56.4	4.9
42		Piazzi XVII, 142	9	30 4.10	0.08	26.30	17 29 37.72	3.94	63 24 25.98	47.85	109.90	24 33 35.3	35.2	5.1
43		Bradley 2219	9	33 21.68	0.07	26.30	17 32 55.31	3.87	60 42 13.92	35.82	98.13	21 51 11.4	11.4	6.1
44		C. P. D. —24° 5939	9	39 23.41	—0.08	—26.30	17 38 57.03	— 3.98	63 29 12.22	33.52	110.30	—24 38 21.9	21.3	— 6.0
45		Lal. 32491	9	44 28.19	—0.08	—26.30	17 44 1.81	— 3.98	63 1 16.65	38.10	108.10	—24 10 24.1	23.7	— 6.6
46		Mayer 717	9	45 41.21	0.07	26.30	17 45 14.84	3.94	61 44 18.75	40.68	102.40	22 53 20.5	20.4	7.0
47		Mayer 723	9	50 57.63	0.07	26.30	17 50 31.26	3.93	60 47 17.48	38.92	98.49	21 56 15.2	14.8	7.7
48		O. A. 17449	9	54 27.94	0.08	26.30	17 54 1.56	4.04	63 55 26.40	50.00	112.40	25 4 38.0	39.8	7.3
49		C. Z. XVIII. 11	9	2 18.68	—0.08	—26.30	18 1 52.30	— 4.00	61 57 47.35	9.85	103.40	—23 6 50.0	50.6	— 8.5

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
22 17 12	75.83	22.1	20.6
17 35	.....	....	20.2
17 58	75.86	21.2	19.4
18 19	75.88	21.0	19.2
27 16 0	75.82	28.5	27.3
31 16 1	75.86	25.6	24.3
16 34	....	....	23.8
16 58	75.89	24.8	23.5
17 32	.....	....	23.2
17 56	75.88	24.0	23.1

Bisections are made at II and V, except as noted below.

31, 33. Bisections at V, III.
35. Bisections at III, VI.

Notes.

33–49. Seeing 4.
35. Through clouds; poor.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–30, from stars	+2	32.5	*
31, from nadir	2	30.02	8.76
33, from nadir	+2	30.64	8.52
34–49, from stars		*	*

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
28	30.6	9.5
29	34.0	10.5
30	32.8	10.7
34	32.7	9.8
35	[27.3]	[5.1]
36	33.2	10.2

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	μ	Sagittarii........	9	8 24.46	—0.07	**—26.30**	18 7 58.09	— 3.95	59 56 2.32	23.75	95.21	—21 4 56.8	56.3	— 9.5
2	δ	Sagittarii........	9	15 13.86	0.11	**26.29**	18 14 47.45	4.25	68 42 22.20	44.20	140.90	29 52 2.2	2.4	8.3
3	λ	Sagittarii........	9	22 25.88	0.09	**26.31**	18 21 59.49	4.11	64 19 10.40	32.55	114.50	25 28 24.1	24.3	9.8
4	24	Sagittarii........	9	28 24.74	0.08	26.30	18 27 58.36	4.08	62 57 1.98	24.40	107.90	24 6 8.9	9.6	10.8
5		Bradley 2332.....	9	32 32.74	0.07	26.30	18 32 6.37	4.01	60 19 37.82	58.20	96.78	21 28 33.7	32.2	11.7
6	26	Sagittarii........	9	36 23.52	—0.08	—26.30	18 35 57.14	— 4.09	62 46 11.95	34.72	107.10	—23 55 18.1	19.0	—11.6
7		Piazzi XVIII, 155.	9	39 18.67	—0.08	—26.30	18 38 52.29	— 4.13	63 57 10.75	32.90	112.70	—25 6 22.5	22.8	—11.6
8		O. A. 18667......	9	42 29.42	0.08	26.31	18 42 3.03	4.08	62 12 32.60	54.55	104.60	23 21 36.3	36.3	12.2
9		Lal. 35010......	9	46 22.19	0.08	26.31	18 45 55.80	4.13	63 36 47.88	10.08	111.10	24 45 58.0	58.3	12.4
10	ν^1	Sagittarii........	9	48 45.67	0.07	26.31	18 48 19.29	4.07	61 42 40.70	3.80	102.45	22 51 42.2	43.3	12.9
11	ξ	Sagittarii........	9	52 23.44	0.07	26.31	18 51 57.06	4.03	60 5 0.30	22.12	95.90	21 13 55.3	55.1	13.5
12	ο	Sagittarii........	9	59 19.12	—0.07	—26.31	18 58 52.74	— 4.06	60 43 54.42	17.25	98.45	—21 52 51.9	52.7	—14.0
13	π	Sagittarii........	9	4 26.58	—0.07	**—26.30**	19 4 0.20	— 4.04	60 1 37.22	58.88	95.70	—21 10 32.1	31.6	—14.4
14		Lal. 36016.......	9	8 47.19	0.07	26.31	19 8 20.81	4.07	61 4 24.85	45.18	99.86	22 13 23.9	22.0	14.7
15	ψ	Sagittarii........	9	10 2.49	0.09	**26.32**	19 9 36.09	4.16	64 16 4.55	28.18	114.40	25 25 18.2	19.5	14.3
16	d	Sagittarii........	9	12 24.47	0.06	**26.33**	19 11 58.10	3.99	57 58 36.42	58.38	88.31	19 7 23.9	23.6	15.4
17	h	Sagittarii........	9	31 15.19	0.08	**26.31**	19 30 48.80	4.15	63 56 32.15	55.22	112.80	25 5 44.3	44.7	16.2
18		C. P. D.—21° 7493	9	41 12.57	—0.07	—26.31	19 40 46.19	— 4.06	60 36 26.60	47.85	98.04	—21 45 24.1	22.5	—17.4
19		Lal. 37659.......	9	44 56.10	—0.08	—26.31	19 44 29.71	— 4.09	61 52 13.72	37.48	103.30	—23 1 16.6	17.4	—17.6
20		O. A. 20018......	9	46 39.06	0.06	26.31	19 46 12.69	4.02	58 47 36.10	57.82	91.22	19 56 27.1	25.6	18.0
21		Lal. 38048.......	9	54 16.28	0.07	26.31	19 53 49.90	4.07	61 19 18.92	40.40	100.95	22 28 19.7	17.8	18.4
22		Lal. 38096.......	9	55 18.73	0.06	26.31	19 54 52.36	4.01	58 58 22.02	43.58	91.88	20 7 13.9	11.9	18.6
23	62	Sagittarii........	9	57 8.59	—0.10	**—26.29**	19 56 42.18	— 4.20	66 49 9.85	32.52	128.70	—27 58 38.6	37.7	—18.1

1902 AUGUST 2. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
24	151	H¹. Cephei S. P...	9	6 20.26	—3.36	—26.49	4 5 50.41	—10.18	304 11 32.72	56.30	79.85	+85 17 29.4	31.2	+17.3
25	σ	Scorpii..........	9	15 43.99	0.07	**26.51**	16 15 17.42	3.60	64 12 18.68	41.82	112.40	25 21 30.2	30.6	2.5
26	ρ	Ophiuchi........	9	20 12.53	0.06	**26.52**	16 19 45.97	3.56	62 4 19.15	40.80	102.60	23 13 21.0	19.7	1.3
27	τ	Scorpii..........	9	30 17.13	0.08	**26.47**	16 29 50.55	3.77	66 51 22.30	44.62	127.10	28 0 48.4	48.1	+ 1.8
28		O. A. 15868......	9	37 42.69	0.05	26.51	16 37 16.13	3.60	60 0 30.82	51.40	94.41	21 9 24.2	22.1	— 1.0
29		O. A. 15999......	9	44 34.86	—0.06	—26.51	16 44 8.29	— 3.69	62 7 38.92	0.90	103.00	—23 16 40.8	40.1	— 1.0
30		Lal. 31255.......	9	7 17.93	—0.05	—26.52	17 6 51.36	— 3.74	60 20 17.90	38.98	95.83	—21 29 12.4	10.9	— 3.6
31		Lac. 7225........	9	12 38.37	0.06	26.53	17 12 11.78	3.84	62 48 46.82	8.52	106.20	23 57 51.6	50.7	3.4
32		Mayer 701.......	9	19 20.64	0.05	26.53	17 18 54.06	3.79	60 12 2.62	24.60	95.34	21 20 56.4	55.9	4.8
33		Piazzi XVII, 142..	9	30 4.32	0.06	26.54	17 29 37.72	3.93	63 24 28.65	51.65	109.00	24 33 36.0	36.5	5.0
34		Bradley 2219....	9	33 21.89	0.05	26.54	17 32 55.30	3.86	60 42 16.68	38.22	97.34	21 51 12.4	11.4	6.0
35		C. P. D.—24° 5939	9	39 23.61	—0.06	—26.54	17 38 57.01	— 3.96	63 29 13.95	34.72	109.40	—24 38 21.6	20.0	— 5.9
36		Lal. 32491.......	9	44 28.42	—0.06	—26.54	17 44 1.82	— 3.96	63 1 18.70	40.98	107.25	—24 10 24.2	24.0	— 6.5
37		Mayer 717.......	9	45 41.42	0.06	26.55	17 45 14.81	3.93	61 44 21.12	43.05	101.60	22 53 20.9	20.4	6.9
38		Mayer 723.......	9	50 57.88	0.05	26.55	17 50 31.28	3.92	60 47 20.25	41.45	97.70	21 56 16.1	14.9	7.7
39	μ	Sagittarii........	9	8 24.71	0.05	**26.58**	18 7 58.10	3.94	59 56 4.30	26.62	94.41	21 4 56.7	56.4	9.5
40	δ	Sagittarii........	9	15 14.07	0.09	**26.53**	18 14 47.42	4.24	68 42 25.40	47.15	139.65	29 52 2.9	2.4	8.2
41	λ	Sagittarii........	8	22 26.12	—0.07	**—26.58**	18 21 59.48	— 4.10	64 19 12.32	35.25	113.50	—25 28 23.6	24.3	— 9.8

1902 AUGUST 3. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
42	151	H¹. Cephei S. P...	9	6 20.67	—3.28	[—**26.62**]	4 6	.....	304 11 33.25	54.80	79.29	+85 17 30.6	30.4	—17.3
43	ρ	Ophiuchi........	9	20 12.70	—0.04	[—**26.72**]	16 20	.....	62 4	.....	.....	—23 13	....	....

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
31 18 30	.....	....	22.8
19 1	75.86	23.6	22.6
19 34	.....	....	22.4
19 59	.....	....	22.2
20 15	75.85	23.1	22.2
2 16 5	75.68	27.5	26.0
16 40	.....	....	25.5
17 9	75.70	26.5	25.1
17 36	.....	....	24.8
18 3	75.74	26.0	24.9
18 40	75.72	25.8	24.8
3 16 5	75.46	28.5	27.2

Bisections are made at II and V, except as noted below.

15, 20, 22, 23. Bisections at III, V.
24, 42. Bisections at V, III.
39. Bisections at II, VII.

Notes.

1–41. Seeing 4.
9, 41. Through clouds.
20. Faint; poor.
43. Clouds.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–23, from stars.....		*	*
24, from nadir....	+2	30.44	8.72
25–41, from stars.....		*	*
42, from nadir....	+2	30.55	8.82

* Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
1	30.9	9.4
2	33.6	11.5
3	32.4	10.2
13	32.2	10.4
15	32.6	9.0
16	32.0	9.9
17	32.3	9.1
23	33.3	10.6
25	32.6	9.3
26	[27.4]	[5.8]
27	32.0	9.5
39	29.7	7.5
40	31.7	9.8
41	31.5	8.5

1902 AUGUST 4. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	151 H^{1}. Cephei s. p.	9	6 21.64	−3.84	−26.89	4 5 50.91	−10.73	304 11 33.25	54.65	79.58	+85 17 31.0	30.0	+17.4
2	σ Scorpii	9	15 44.37	0.12	**26.87**	16 15 17.36	3.57	64 12 18.68	42.65	112.00	−25 21 30.6	31.1	2.4
3	ρ Ophiuchi	9	20 12.96	0.10	**26.93**	16 19 45.96	3.54	62 4 19.30	41.78	102.25	23 13 21.4	20.5	1.3
4	τ Scorpii	9	30 17.58	0.13	**26.90**	16 29 50.54	3.74	66 51 21.72	44.68	126.60	28 0 48.1	47.7	+ 1.9
5	O. A. 15868	9	37 43.05	0.09	26.91	16 37 16.05	3.57	60 0 28.45	50.12	94.08	21 9 22.2	20.7	− 0.9
6	Lal. 30551	9	44 14.89	−0.10	−26.92	16 43 47.87	− 3.62	60 31 52.82	14.75	96.10	−21 40 48.5	47.3	− 1.4
7	O. A. 16358	9	3 8.92	−0.10	−26.93	17 2 41.89	− 3.75	61 56 48.70	11.65	101.95	−23 5 49.9	50.1	− 2.7
8	Lal. 31255	9	7 18.35	0.10	26.93	17 6 51.32	3.72	60 20 16.55	38.55	95.48	21 29 11.3	10.5	3.6
9	Lac. 7225	9	12 38.81	0.11	26.94	17 12 11.76	3.82	62 48 44.90	7.68	105.80	23 57 49.9	49.9	3.4
10	Lal. 31556	9	17 48.07	0.10	26.94	17 17 21.03	3.81	61 45 48.60	11.10	101.25	22 54 49.0	48.8	4.2
11	Mayer 701	9	19 21.09	0.10	26.94	17 18 54.05	3.77	60 12 0.90	23.92	94.97	21 20 55.0	55.4	4.8
12	O. A. 16823	9	23 17.54	−0.10	−26.94	17 22 50.50	− 3.82	61 20 55.85	17.65	99.54	−22 29 54.5	53.7	− 4.8
13	Piazzi XVII, 142	9	30 4.69	−0.11	−26.95	17 29 37.63	3.91	63 24 26.75	49.60	108.60	−24 33 34.3	34.7	− 4.9
14	Bradley 2219	9	33 22.34	0.10	26.95	17 32 55.29	3.84	60 42 15.35	37.22	96.96	21 51 11.3	10.7	5.9
15	C.P.D.—24° 5939	9	39 24.05	0.11	26.95	17 38 56.99	3.95	63 29 13.35	35.10	109.00	24 38 21.2	20.6	5.8
16	Lal. 32491	9	44 28.91	0.11	26.96	17 44 1.84	3.95	63 1 19.12	41.32	106.85	24 10 24.8	24.6	6.4
17	Mayer 717	9	45 41.84	0.10	26.96	17 45 14.78	3.91	61 44 20.45	42.85	101.25	22 53 20.6	20.6	6.8
18	Mayer 723	9	50 58.33	−0.10	−26.96	17 50 31.27	− 3.90	60 47 19.05	40.38	97.39	−21 56 15.3	14.2	− 7.6
19	O. A. 17449	9	54 28.61	−0.12	−26.96	17 54 1.53	− 4.01	63 55 29.45	51.62	111.20	−25 4 39.4	39.3	− 7.2
20	Piazzi XVII, 342	9	59 40.96	0.11	26.96	17 59 13.89	4.00	63 14 58.72	22.50	108.00	24 24 5.5	7.0	7.8
21	C. Z. XVIII. 11	9	2 19.38	0.10	26.96	18 1 52.32	3.97	61 57 49.40	11.95	102.30	23 6 50.4	50.7	8.4
22	Bradley 2276	9	6 15.54	0.11	26.96	18 5 48.47	4.00	62 34 4.30	26.25	104.95	23 43 7.9	7.7	8.6
23	μ Sagittarii	9	8 25.17	0.09	**27.01**	18 7 58.12	3.93	59 56 3.82	25.70	94.21	21 4 56.7	56.4	9.5
24	δ Sagittarii	9	15 14.52	−0.15	**−26.93**	18 14 47.40	− 4.23	68 42 24.35	45.10	139.45	−29 52 2.4	1.0	− 8.2
25	λ Sagittarii	9	22 26.54	−0.12	**−26.96**	18 21 59.45	− 4.09	64 19 12.02	34.75	113.40	−25 28 24.0	24.6	− 9.7
26	24 Sagittarii	9	28 25.40	0.11	26.97	18 27 58.32	4.07	62 57 3.18	24.68	106.90	24 6 8.6	8.0	10.6
27	O. A. 18413	9	29 57.63	0.10	26.97	18 29 30.56	4.01	61 0 54.70	17.52	98.63	22 9 51.9	52.6	11.2
28	Bradley 2333	9	33 4.26	0.11	26.97	18 32 37.18	4.06	62 26 3.98	27.42	104.65	23 35 7.2	8.5	11.2
29	26 Sagittarii	9	36 24.19	0.11	26.97	18 35 57.11	4.08	62 46 13.25	35.88	106.15	23 55 18.0	18.5	11.4
30	O. A. 18582	9	37 56.77	−0.10	−26.97	18 37 29.70	− 4.04	61 21 11.90	34.45	100.05	−22 30 10.6	11.0	−11.8
31	28 Sagittarii	9	40 57.12	−0.10	−26.97	18 40 30.05	− 4.04	61 20 30.90	52.88	100.05	−22 29 29.4	29.4	−12.1
32	30 Sagittarii	9	45 28.16	0.10	**27.01**	18 45 1.09	4.04	61 7 17.80	40.72	99.13	22 16 15.4	16.3	12.5
33	ν^1 Sagittarii	9	48 46.33	0.10	26.97	18 48 19.26	4.07	61 42 42.10	5.78	101.60	22 51 42.2	43.9	12.7
34	ξ Sagittarii	9	52 24.08	0.09	26.97	18 51 57.02	4.03	60 5 1.32	24.58	95.08	21 13 54.9	56.1	13.4
35	Mayer 779	9	56 14.41	0.10	26.97	18 55 47.34	4.08	61 40 46.78	9.35	101.45	22 49 46.7	47.3	13.4
36	Lal. 35745	9	3 20.38	−0.11	−26.97	19 2 53.30	− 4.10	62 11 23.40	45.68	103.70	−23 20 25.6	25.9	−14.0
37	π Sagittarii	9	4 27.25	−0.09	**−26.95**	19 4 0.19	− 4.04	60 1 39.15	0.08	94.89	−21 10 32.5	31.4	−14.3
38	ψ Sagittarii	9	10 3.17	0.12	**26.97**	19 9 36.08	4.16	64 16 7.18	29.62	113.40	25 25 19.0	19.5	14.1
39	d Sagittarii	9	12 25.13	0.08	**26.97**	19 11 58.08	3.99	57 58 37.15	0.38	87.56	19 7 23.2	24.4	15.4
40	h Sagittarii	9	31 15.91	0.12	**26.99**	19 30 48.82	4.15	63 56 33.40	56.28	111.80	25 5 43.7	44.5	16.0
41	C.P.D.—21° 7493	9	41 13.26	0.10	26.96	19 40 46.20	4.07	60 36 26.92	48.80	97.21	21 45 22.8	22.5	17.3
42	Lal. 37659	9	44 56.79	−0.10	−26.96	19 44 29.73	− 4.10	61 52 15.78	38.12	102.45	−23 1 16.9	17.0	−17.5
43	O. A. 20018	9	46 39.72	−0.09	−26.96	19 46 12.67	− 4.03	58 47 37.72	59.05	90.53	−19 56 26.9	26.1	−17.9
44	Lal. 38048	9	54 16.86	0.10	26.96	19 53 49.80	4.09	61 19 20.70	42.15	100.30	22 28 19.8	18.9	18.3
45	Lal. 38096	9	55 19.39	0.09	26.96	19 54 52.34	4.03	58 58 21.90	41.25	91.26	20 7 12.0	9.0	18.6
46	62 Sagittarii	9	57 9.26	0.13	**26.91**	19 56 42.18	4.22	66 49 11.62	33.48	127.85	27 58 38.2	37.8	18.0
47	4 Capricorni	8	12 47.15	0.10	**27.01**	20 12 20.11	4.06	60 57 30.52	52.12	99.06	22 6 28.5	27.7	19.6
48	π Capricorni	9	22 13.70	−0.08	**−26.88**	20 21 46.69	− 3.98	57 22 51.78	15.70	86.12	−18 31 37.2	38.3	−20.5

1902 AUGUST 7. CLAMP EAST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
49	151 H^{1}. Cephei s. p.	9	6 22.76	−3.24	−27.39	4 5 52.13	−11.54	304 11 33.70	56.40	80.50	+85 17 30.0	30.2	+17.5
50	σ Scorpii	9	15 44.74	−0.06	**−27.34**	16 15 17.28	− 3.53	64 12 17.25	41.50	113.30	−25 21 30.0	30.2	+ 2.4

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
4 16 6	75.50	27.5	26.3
16 35	.....	....	26.0
17 9	75.53	26.4	25.5
17 35	.....	....	25.4
18 10	75.57	25.7	24.8
18 40	.....	....	24.1
19 7	75.60	25.0	24.0
19 39	.....	....	23.8
20 20	75.61	24.0	22.1
7 16 6	75.30	24.0	22.3

Bisections are made at II and V, except as noted below.

1, 49.	Bisections at V, III.
11, 30, 45.	Bisections at III, V.

Notes.

1–23, 49, 50.	Seeing 3.
19.	First bisection doubtful.
24.	Unsteady; blurred.
24–48.	Seeing 2.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1, from nadir	+2	31.32	8.86
2–48, from stars		*	9.5
49, from nadir	+2	30.80	8.24
50, from stars		*	*

* Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
2	32.9	8.8
3	[27.7]	[5.1]
4	33.1	10.1
23	30.4	8.4
24	33.0	12.1
25	32.0	9.2
32	31.3	8.3
37	31.2	10.2
38	31.3	8.7
39	32.0	8.7
40	32.3	9.3
46	32.6	10.6
47	30.0	8.2
48	33.7	9.7
50	33.0	8.6

NO.		NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n\tan\delta$.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	ρ	Ophiuchi	9	20 13.37	−0.05	**−27.44**	16 19 45.92	− 3.49	62 4 18.70	41.92	103.45	−23 13 21.5	20.7	+ 1.2
2	τ	Scorpii	9	30 18.01	0.07	**27.43**	16 29 50.53	3.70	66 51 21.40	44.88	128.10	28 0 48.6	48.4	+ 1.9
3		Bradley 2115.....	9	36 38.88	0.04	27.41	16 36 11.43	3.49	58 35 23.88	46.62	89.97	19 44 12.9	12.1	− 1.3
4	15	Ophiuchi	9	39 46.00	0.05	27.41	16 39 18.54	3.60	61 51 4.48	27.72	102.60	23 0 6.1	5.8	0.6
5		Lal. 30551	9	44 15.32	0.05	27.42	16 43 47.85	3.58	60 31 52.68	15.58	97.21	21 40 48.8	48.3	1.4
6		O. A. 16091	9	49 18.18	−0.05	−27.42	16 48 50.71	− 3.61	60 34 13.25	35.78	97.39	−21 43 9.4	8.6	− 1.8
7	24	Ophiuchi	9	51 24.46	−0.05	−27.42	16 50 56.99	− 3.66	61 50 39.08	1.80	102.60	−22 59 40.5	39.9	− 1.6
8		Lal. 30869	9	55 10.29	0.04	27.43	16 54 42.82	3.63	60 9 50.28	11.55	95.83	21 18 44.8	42.9	2.5
9		Lal. 30946	9	57 57.62	0.05	27.43	16 57 30.14	3.69	61 51 36.35	59.88	102.70	23 0 37.6	38.1	2.2
10		Bradley 2162.....	9	0 51.77	0.04	27.43	17 0 24.30	3.66	60 16 48.12	9.38	96.29	21 25 43.0	41.1	3.0
11		Lal. 31255	9	7 18.77	0.04	27.43	17 6 51.30	3.69	60 20 16.75	38.62	96.54	21 29 11.8	10.6	3.6
12		O. A. 16586	9	13 31.20	−0.05	−27.44	17 13 3.71	− 3.75	61 27 9.75	33.02	101.05	−22 36 9.1	9.5	− 3.8
13	ξ	Ophiuchi	9	15 38.92	−0.04	−27.44	17 15 11.44	− 3.71	59 51 32.18	54.30	94.75	−21 0 25.2	24.5	− 4.5
14		Mayer 701	9	19 21.52	0.04	27.44	17 18 54.04	3.74	60 12 1.90	24.78	96.05	21 20 56.1	56.3	4.8
15	b	Ophiuchi	9	20 54.36	0.06	27.44	17 20 26.86	3.82	62 55 58.58	22.12	107.55	24 5 4.3	5.1	4.1
16		O. A. 16823	9	23 17.94	0.05	27.44	17 22 50.45	3.79	61 20 56.98	18.92	100.65	22 29 55.8	55.0	4.8
17	51	Ophiuchi	9	25 57.45	0.06	27.44	17 25 29.95	3.84	62 44 4.58	27.50	106.70	23 53 9.3	9.7	4.6
18		Piazzi XVII, 142..	9	30 5.13	−0.06	−27.45	17 29 37.62	− 3.88	63 24 27.38	50.82	109.85	−24 33 35.2	36.1	− 4.8
19		Bradley 2219.....	9	33 22.77	−0.05	−27.45	17 32 55.27	− 3.81	60 42 15.30	37.82	98.08	−21 51 11.3	11.4	− 5.9
20		Piazzi XVII, 173..	9	35 22.52	0.06	27.45	17 34 55.01	3.87	62 37 50.78	14.05	106.25	23 46 55.0	55.8	5.6
21	58	Ophiuchi	9	38 4.71	0.05	27.45	17 37 37.21	3.82	60 29 7.05	28.72	97.25	21 38 2.2	1.4	6.4
22		O. A. 17155	9	39 39.88	0.05	27.45	17 39 12.38	3.86	61 41 39.52	2.08	102.20	22 50 39.6	39.7	6.2
23		Lal. 32491	9	44 29.24	0.06	27.45	17 44 1.73	3.92	63 1 18.12	40.68	108.10	24 10 24.0	24.1	6.4
24		Mayer 717	9	45 42.28	−0.05	−27.45	17 45 14.78	− 3.88	61 44 19.40	42.50	102.40	−22 53 19.6	20.3	− 6.8
25	63	Ophiuchi	9	49 23.52	−0.06	−27.46	17 48 56.00	− 3.96	63 42 47.32	10.75	111.40	−24 51 56.4	57.5	− 6.6
26		Lal. 32742	9	51 3.22	0.05	27.46	17 50 35.71	3.92	62 13 17.80	41.30	104.50	23 22 20.0	21.2	7.2
27		O. A. 17449	9	54 28.96	0.06	27.46	17 54 1.44	3.98	63 55 27.05	51.45	112.50	25 4 37.1	39.3	7.1
28		Mayer 728	9	56 29.56	0.05	27.46	17 56 2.05	3.92	61 37 33.02	55.68	102.00	22 46 32.6	33.0	7.8
29		Piazzi XVII, 342..	9	59 41.38	0.06	27.46	17 59 13.86	3.98	63 14 58.75	22.00	109.25	24 24 5.6	6.5	7.7
30		C. Z. XVIII. 11 ..	9	2 19.77	−0.05	−27.46	18 1 52.26	− 3.95	61 57 48.95	11.78	103.45	−23 6 49.9	50.5	− 8.3
31		Bradley 2276	9	6 16.02	−0.05	−27.46	18 5 48.51	− 3.98	62 34 3.88	26.85	106.15	−23 43 7.5	8.3	− 8.5
32	μ	Sagittarii	9	8 25.58	0.04	**27.49**	18 7 58.07	3.91	59 56 3.82	25.95	95.28	21 4 56.5	56.4	9.5
33	δ	Sagittarii	9	15 14.95	0.08	**27.45**	18 14 47.40	4.21	68 42 24.65	46.68	140.95	29 52 2.9	2.8	8.0
34	λ	Sagittarii	9	22 26.96	0.06	**27.46**	18 21 59.43	4.07	64 19 12.20	34.48	114.60	25 28 24.0	24.1	9.6
35		O. A. 18413	9	29 58.04	0.05	27.47	18 29 30.52	4.00	61 0 56.05	17.75	99.59	22 9 52.8	52.2	11.1
36		Bradley 2333.....	9	33 4.69	−0.05	−27.47	18 32 37.17	− 4.04	62 26 5.20	28.65	105.65	−23 35 8.0	9.2	−11.1
37		O. A. 18582	9	37 57.26	−0.05	−27.48	18 37 29.73	− 4.02	61 21 12.75	35.10	100.95	−22 30 10.8	10.8	−11.7
38	28	Sagittarii	9	40 57.57	0.05	27.48	18 40 30.04	4.03	61 20 32.55	54.08	100.90	22 29 30.5	29.7	12.0
39	30	Sagittarii	9	45 28.60	0.05	**27.51**	18 45 1.07	4.03	61 7 18.82	41.90	100.00	22 16 15.8	16.5	12.4
40		Lal. 35745	9	3 20.86	0.05	27.48	19 2 53.33	4.09	62 11 23.10	46.60	104.60	23 20 24.5	25.4	13.8
41	π	Sagittarii	6	4 27.74	0.04	**27.50**	19 4 0.22	4.03	60 1 39.85	1.62	95.72	21 10 32.6	31.4	14.3
42	ψ	Sagittarii	9	10 3.61	−0.06	**−27.48**	19 9 36.07	− 4.15	64 16 6.75	30.72	114.40	−25 25 18.0	19.0	−14.1
43	d	Sagittarii	9	12 25.57	−0.04	**−27.46**	19 11 58.05	− 3.98	57 58 38.42	0.90	88.33	−19 7 23.6	23.0	−15.4
44	h	Sagittarii	9	31 16.34	−0.06	**−27.47**	19 30 48.80	− 4.16	63 56 35.00	57.58	112.85	−25 5 44.6	43.4	−16.0

1902 AUGUST 8. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n\tan\delta$.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
45	σ	Scorpii	9	15 44.73	+0.01	**−27.41**	16 15 17.35	− 3.52	64 12 19.32	43.70	112.45	−25 21 30.4	31.0	+ 2.4
46	ρ	Ophiuchi	9	20 13.28	+0.01	**27.42**	16 19 45.89	3.48	62 4 19.15	42.52	102.55	23 13 20.3	20.3	1.2
47	τ	Scorpii	9	30 17.86	0.00	**27.36**	16 29 50.46	3.69	66 51 23.05	45.28	126.80	28 0 48.3	47.6	+ 1.9
48		Bradley 2115	9	36 38.78	+0.02	27.40	16 36 11.40	3.48	58 35 25.32	47.72	88.94	19 44 12.8	12.3	− 1.4
49	15	Ophiuchi	9	39 45.87	0.01	27.40	16 39 18.48	3.58	61 51 5.95	29.12	101.40	23 0 5.8	6.3	0.6
50		Lal. 30551........	9	44 15.16	+0.02	−27.41	16 43 47.77	− 3.57	60 31 54.10	16.25	96.01	−21 40 48.6	48.0	− 1.4
51		O. A. 16091	9	49 18.12	+0.02	−27.41	16 48 50.73	− 3.60	60 34 14.70	36.00	96.14	−21 43 9.3	8.0	− 1.9
52	24	Ophiuchi	9	51 24.32	0.01	27.41	16 50 56.92	3.64	61 50 39.60	3.20	101.30	22 59 39.4	40.5	1.7
53		Lal. 30869........	9	55 10.13	0.02	27.41	16 54 42.74	3.61	60 9 51.68	12.90	94.60	21 18 44.7	43.5	2.6
54		Lal. 30946........	9	57 57.47	+0.01	−27.41	16 57 30.07	− 3.68	61 51 37.42	59.55	101.40	−23 0 37.2	37.0	− 2.3

Time.			Barom.	Att. Ther.	Ext. Ther.
d	h	m	cm.	°	°
7	16	41	.....	....	21.7
	17	3	75.29	22.8	21.5
	17	37	.....	....	21.0
	18	10	75.29	21.7	20.6
	18	35	.....	....	20.5
	19	8	.....	....	20.3
	19	27	75.27	21.0	20.1
8	16	18	75.45	27.6	25.0
	16	47	.....	....	26.0

Bisections are made at II and V, except as noted below.

41. Bisections at IV, V.
45. Bisections at III, VI.

Notes.

1–44. Seeing 3.
15. Circle A read on 56′ division.
33. Unsteady, blurred.
45–54. Seeing not good.

Adopted Zenith Point Corrections.

	A.	B.
′	″	″
1–44, from stars	*	*
45–54, from stars	*	*

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
1	[27.0]	[3.7]
2	32.0	8.4
32	29.3	7.1
33	31.4	9.2
34	30.8	8.4
39	29.5	6.3
41	29.5	7.8
42	30.7	6.6
43	30.0	7.4
44	29.6	6.9
45	31.7	7.4
46	[27.4]	[4.0]
47	31.6	9.3

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0
									A.	B.		A.	B.	
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		Bradley 2162	9	0 51.66	+ 0.02	—27.41	17 0 24.27	— 3.64	60 16 48.32	10.78	95.06	—21 25 41.8	41.9	— 3.0
2		Lal. 31247	9	6 59.42	0.01	27.42	17 6 32.01	3.71	61 39 19.50	41.20	100.55	22 48 18.4	17.9	3.2
3		Lac. 7225	9	12 39.10	0.01	27.42	17 12 11.69	3.77	62 48 47.05	8.65	105.60	23 57 51.0	50.5	3.4
4	ξ	Ophiuchi	9	15 38.84	0.02	27.42	17 15 11.44	3.70	59 51 33.45	54.50	93.50	21 0 25.3	24.3	4.5
5		Mayer 701	9	19 21.42	0.02	27.42	17 18 54.02	3.72	60 12 2.60	24.58	94.78	21 20 55.8	55.6	4.8
6	51	Ophiuchi	9	25 57.32	+ 0.01	—27.42	17 25 29.91	— 3.83	62 44 6.12	27.85	105.20	—23 53 9.6	9.4	— 4.7
7	52	Ophiuchi	9	29 55.93	+ 0.02	—27.42	17 29 28.53	— 3.79	60 49 40.45	2.35	97.18	—21 58 35.9	35.9	— 5.6
8		C. P. D. —23° 6620	9	32 20.79	0.01	27.43	17 31 53.37	3.84	62 10 36.65	58.80	102.75	23 19 37.7	37.9	5.4
9		Piazzi XVII, 173	8	35 22.43	0.01	27.43	17 34 55.01	3.86	62 37 52.40	15.02	104.75	23 46 55.4	56.1	5.6
10		C. P. D. —24° 5939	9	39 24.36	0.01	27.43	17 38 56.94	3.90	63 29 14.90	36.70	108.70	24 38 21.9	21.8	5.8
11		O. A. 17263	9	45 16.56	0.02	27.43	17 44 49.15	3.84	60 45 4.28	27.30	96.96	21 53 59.5	60.5	7.1
12		Mayer 723	9	50 58.63	+ 0.02	—27.43	17 50 31.22	— 3.87	60 47 20.15	41.48	97.16	—21 56 15.5	15.0	— 7.6
13	4	Sagittarii	9	54 19.88	+ 0.01	—27.43	17 53 52.46	— 3.93	62 39 15.92	37.88	105.05	—23 48 19.1	19.3	— 7.4
14		Mayer 728	9	56 29.51	0.01	27.44	17 56 2.08	3.91	61 37 34.52	56.18	100.60	22 46 33.3	33.2	7.9
15		Mayer 734	9	1 49.96	+ 0.02	27.44	18 1 22.54	3.89	60 18 12.88	34.55	95.39	21 27 6.5	6.3	8.7
16	μ	Sagittarii	.	.. ..	....	.....	18 8	....	59 56 4.30	25.75	94.06	21 4 56.5	56.2	9.5
17	δ	Sagittarii	.	.. ..	....	.....	18 15	....	68 42 25.15	47.28	139.25	29 52 2.4	2.9	8.0
18	λ	Sagittarii	9	22 26.82	0.00	—**27.39**	18 21 59.37	— 4.06	64 19 12.68	34.82	113.25	—25 28 24.0	24.3	— 9.6
19		O. A. 18413	9	29 58.00	+ 0.01	—27.45	18 29 30.56	— 3.99	61 0 55.95	18.72	98.49	—22 9 52.5	53.4	—11.1
20		Bradley 2333	9	33 4.59	0.01	27.45	18 32 37.15	4.04	62 26 6.20	29.32	104.50	23 35 8.8	9.9	11.1
21		O. A. 18582	9	37 57.22	0.01	27.45	18 37 29.78	4.02	61 21 13.10	35.22	99.95	22 30 11.1	11.2	11.8
22	28	Sagittarii	9	40 57.49	0.01	27.45	18 40 30.05	4.02	61 20 31.25	53.80	99.93	22 29 29.2	29.7	12.0
23	30	Sagittarii	9	45 28.54	0.01	**27.52**	18 45 1.09	4.02	61 7 18.75	40.85	99.06	22 16 15.8	15.8	12.4
24		Lal. 35745	9	3 20.76	+ 0.01	—27.46	19 2 53.31	— 4.08	62 11 24.58	46.45	103.70	—23 20 26.3	25.6	—13.8
25	π	Sagittarii	9	4 27.64	+ 0.02	—**27.46**	19 4 0.20	— 4.03	60 1 39.80	0.78	94.91	—21 10 32.8	31.2	—14.3
26	ψ	Sagittarii	9	10 3.52	0.01	**27.46**	19 9 36.06	4.15	64 16 7.32	29.85	113.50	25 25 18.7	18.6	14.0
27	d	Sagittarii	5	12 25.57	0.02	**27.52**	19 11 58.12	3.98	57 58 38.80	0.95	87.62	19 7 24.3	23.8	15.4
28	h	Sagittarii	5	31 16.22	+ 0.01	—**27.42**	19 30 48.76	— 4.16	63 56 33.38	58.32	112.05	—25 5 43.3	44.7	—15.9

1902 AUGUST 11. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

NO.	NAME.		THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING A.	CIRCLE READING B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
29	λ	Ursæ Minoris	7	20 45.36	+16.86	—27.57	19 20 34.65	—22.69	309 53 57.60	19.74	66.62	+88 59 51.0	51.3	—21.7
30	62	Sagittarii	9	57 9.84	— 0.12	**27.49**	19 56 42.15	4.23	66 49 10.15	32.92	130.40	—27 58 37.5	37.3	17.6
31	4	Capricorni	9	12 47.77	0.08	**27.63**	20 12 20.12	4.08	60 57 29.20	52.05	100.90	22 6 27.4	27.1	19.5
32	β	Capricorni	9	16 1.97	0.05	**27.59**	20 15 34.35	3.94	53 56 33.50	57.55	77.09	15 5 8.0	8.8	20.5
33	ο	Capricorni	9	24 48.48	0.07	27.57	20 24 20.84	4.01	57 45 19.28	.....	88.94	18 54 5.8	....	20.6
34		Lal. 39577	9	29 21.26	— 0.07	—27.57	20 28 53.62	— 4.02	58 34 45.90	8.62	91.85	—19 43 35.4	34.8	—20.9
35		Mayer 871	9	31 17.98	— 0.08	—27.57	20 30 50.33	— 4.04	59 46 11.62	34.42	96.25	—20 55 5.7	5.1	—20.9
36	υ	Capricorni	9	34 59.94	0.07	**27.56**	20 34 32.30	3.99	57 19 54.92	17.98	87.52	18 28 40.3	40.0	21.4
37		Lal. 39981	9	38 50.37	0.07	27.57	20 38 22.73	4.01	58 32 33.52	56.50	91.69	19 41 23.2	22.8	21.4
38		B. D. —17° 6081	9	41 34.28	0.06	27.57	20 41 6.65	3.97	56 22 3.68	26.78	84.35	17 30 46.0	45.7	21.8
39		B. D. —21° 5840	9	44 6.97	0.08	27.57	20 43 39.32	4.03	59 50 0.20	22.30	96.45	20 58 54.7	53.4	21.7
40		Lal. 40257	9	47 11.52	— 0.08	—27.57	20 46 43.87	— 4.01	58 51 26.65	48.38	92.79	—20 0 17.5	15.8	—21.9
41	19	Capricorni	9	49 47.28	— 0.07	—27.57	20 49 19.64	— 3.97	57 8 33.02	56.02	86.86	—18 17 18.1	17.7	—22.2
42	21	Capricorni	9	55 52.48	0.06	27.57	20 55 24.85	3.96	56 45 39.48	4.10	85.59	17 54 23.4	24.5	22.5
43	θ	Capricorni	9	0 57.99	0.06	**27.62**	21 0 30.36	3.95	56 28 15.15	38.68	84.63	17 36 58.3	58.2	22.7
44		Piazzi XX, 487	9	5 13.19	0.05	27.57	21 4 45.57	3.92	54 56 58.50	21.92	79.96	16 5 37.0	36.9	23.0
45		Lal. 41191	9	10 9.29	0.06	27.57	21 9 41.66	3.94	56 35 55.40	19.62	85.02	17 44 39.1	39.7	23.2
46	ι	Capricorni	9	17 19.00	— 0.06	—**27.54**	21 16 51.37	— 3.92	56 6 1.18	24.85	83.44	—17 14 43.4	43.5	—23.5
47	γ	Capricorni	9	35 11.25	— 0.06	—**27.55**	21 34 43.62	— 3.88	55 57 12.35	36.18	82.97	—17 5 54.5	54.5	—24.3
48	κ	Capricorni	9	37 42.79	0.07	**27.60**	21 37 15.15	3.90	58 9 32.72	56.02	90.22	19 18 22.2	21.7	24.5
49	δ	Capricorni	9	42 9.48	— 0.06	—**27.58**	21 41 41.85	— 3.86	55 25 14.60	39.32	81.34	—16 33 55.3	56.1	—24.3

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
8 17 10	75.48	26.9	25.8
17 38	.....	....	25.9
18 10	75.52	26.0	25.0
18 40	.....	....	24.2
19 7	.....	....	23.7
19 26	75.59	24.7	23.3
11 19 26	75.79	20.8	19.2
20 5	.....	....	18.1
20 27	75.79	19.9	17.6
21 7	.....	....	18.0
21 40	75.76	19.2	18.1

Bisections are made at II and V, except as noted below.

11. Bisections at II, VI.
25. Bisections at III, V.
28. Bisections at II, VII.
29. Bisections at c_1, c_2, c_4, c_5.
33. Bisection at II.

Notes.

1–28.	Seeing improving.
8, 11.	Very faint.
27.	Clouds; second bisection doubtful.
28.	Clouds.
29.	Circle A read on 54′ division.
29–49.	Seeing 2–3.
33.	Double; observed n. f.
47, 48.	Unsteady.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–28, from stars		*	*
29, from nadir......	+2	30.84	8.02
30–49, from stars		*	*

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
16	30.1	8.5
17	32.6	10.3
18	31.6	9.4
23	30.5	8.3
25	30.4	9.4
26	31.1	8.5
27	30.3	8.1
28	32.1	7.4
30	31.9	9.0
31	29.5	6.6
32	29.7	5.6
36	30.8	7.6
43	31.6	8.0
46	32.3	8.5
47	31.7	7.8
48	32.8	9.4
49	32.5	7.7

1902 AUGUST 12. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

No.		Name.	Thds.	Mean Thread.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T + m$.	Apparent. R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	λ	Ursæ Minoris	5	20 48.14	+16.92	−27.69	19 20 37.37	−21.85	309 53 56.92	19.92	66.99	+88 59 51.6	51.0	−22.0
2	62	Sagittarii	9	57 10.01	− 0.10	**27.68**	19 56 42.21	4.23	66 49 9.20	31.65	130.90	−27 58 38.3	37.8	17.6
3	4	Capricorni	9	12 47.88	0.07	**27.75**	20 12 20.11	4.08	60 57 27.85	50.12	101.30	22 6 27.5	26.7	19.5
4	β	Capricorni	9	16 2.01	0.03	**27.64**	20 15 34.28	3.95	53 56 31.60	55.72	77.39	15 5 7.3	8.5	20.5
5	ο	Capricorni	9	24 48.66	0.05	27.70	20 24 20.91	4.01	57 45 18.32	42.62	89.27	18 54 5.9	7.4	20.6
6		Lal. 39577	9	29 21.41	− 0.06	−27.70	20 28 53.65	− 4.02	58 34 45.48	8.62	92.19	−19 43 36.0	36.3	−20.9
7		Mayer 871	9	31 18.06	− 0.06	−27.70	20 30 50.30	− 4.04	59 46 12.18	34.20	96.65	−20 55 7.2	6.3	−20.9
8	υ	Capricorni	9	35 0.10	0.05	**27.74**	20 34 32.34	3.99	57 19 54.38	17.12	87.88	18 28 40.7	40.5	21.4
9		Lal. 39981	9	38 50.37	0.06	27.71	20 38 22.60	4.01	58 32 31.10	54.48	92.11	19 41 21.6	22.2	21.4
10		B. D. −17° 6081	9	41 34.38	0.04	27.71	20 41 6.63	3.97	56 22 2.40	25.42	84.76	17 30 45.6	45.8	21.8
11		B. D. −21° 5840	9	44 7.06	0.06	27.71	20 43 39.29	4.03	59 49 59.52	21.00	96.94	20 58 54.8	53.5	21.7
12		Lal. 40257	9	47 11.71	− 0.06	−27.71	20 46 43.94	− 4.01	58 51 25.98	47.95	93.26	−20 0 17.6	16.8	−21.9
13	19	Capricorni	9	49 47.39	− 0.05	−27.71	20 49 19.63	− 3.97	57 8 33.08	55.78	87.34	−18 17 18.8	18.7	−22.2
14	21	Capricorni	9	55 52.58	0.05	27.71	20 55 24.82	3.96	56 45 39.20	3.55	86.10	17 54 23.7	25.2	22.5
15	θ	Capricorni	9	0 58.04	0.04	**27.68**	21 0 30.29	3.96	56 28 14.05	37.12	85.19	17 36 57.7	57.9	22.7
16		Piazzi XX, 487	9	5 13.26	0.04	27.71	21 4 45.51	3.92	54 56 56.55	19.80	80.52	16 5 35.5	36.0	23.0
17		Lal. 41191	9	10 9.44	0.04	27.71	21 9 41.69	3.94	56 35 54.62	17.72	85.64	17 44 38.8	39.0	23.2
18	ι	Capricorni	9	17 19.14	− 0.04	**−27.70**	21 16 51.39	− 3.92	56 6 0.75	24.32	84.08	−17 14 43.3	44.1	−23.5
19	γ	Capricorni	9	35 11.41	− 0.04	**−27.72**	21 34 43.65	− 3.89	55 57 11.72	34.80	83.73	−17 5 54.0	54.3	−24.4
20	κ	Capricorni	9	37 42.94	0.05	**27.76**	21 37 15.17	3.91	58 9 32.95	55.20	91.08	19 18 22.5	22.0	24.5
21	δ	Capricorni	9	42 9.61	− 0.04	**−27.72**	21 41 41.85	3.87	55 25 15.00	37.12	82.13	−16 33 55.6	55.0	−24.4

1902 AUGUST 16. CLAMP EAST.

HAMMOND, OBSERVER. NO ASSISTANT.

No.		Name.	Thds.	Mean Thread.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T + m$.	Apparent. R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
22	ε	Virginis	9	57 47.48	+ 0.10	[**−28.12**]	12 57	....	27 23	.....	.....	+11 30	....	....
23	α	Ursæ Minoris S. P.	9	25 20.22	−13.75	[**27.75**]	1 25	....	307 40 52.84	14.74	71.14	88 46 59.6	59.2	+ 4.3
24	η	Bootis	9	50 30.69	+ 0.14	[**−28.09**	13 50	....	19 59	.....	.....	+18 54	....	....

1902 AUGUST 19. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

No.		Name.	Thds.	Mean Thread.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T + m$.	Apparent. R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
25	51	H. Cephei S. P.	9	55 17.49	− 5.09	[**−27.63**]	6 55	....	306 5 44.98	7.68	74.27	+87 11 48.8	49.7	+23.7
26	λ	Ursæ Minoris	6	20 42.73	+14.24	[**28.41**]	19 20	....	309 53 51.48	14.65	64.94	+88 59 54.4	53.4	−23.9
27	62	Sagittarii	9	57 10.19	− 0.07	**27.90**	19 56 42.19	− 4.22	66 49 13.42	35.62	126.95	−27 58 38.5	38.3	17.1
28	4	Capricorni	9	12 48.07	0.04	**27.98**	20 12 20.09	4.07	60 57 31.22	53.15	98.22	22 6 27.7	27.1	19.2
29	β	Capricorni	9	16 2.27	0.02	**27.92**	20 15 34.31	3.94	53 56 34.20	57.78	75.02	15 5 7.5	8.6	20.6
30	ο	Capricorni	9	24 48.84	− 0.03	−27.94	20 24 20.87	− 4.00	57 45 22.75	45.15	86.56	−18 54 7.7	7.5	−20.5
31		Lal. 39577	9	29 21.64	− 0.04	−27.94	20 28 53.66	− 4.02	58 34 49.40	11.00	89.39	−19 43 37.2	36.2	−20.6
32		Mayer 871	9	31 18.31	0.04	27.94	20 30 50.33	4.04	59 46 15.75	36.08	93.69	20 55 7.8	5.5	20.6
33	υ	Capricorni	9	35 0.30	0.03	**27.95**	20 34 32.32	4.00	57 19 56.28	18.42	85.21	18 28 39.9	39.4	21.2
34		Lal. 39981	9	38 50.67	0.04	27.95	20 38 22.68	4.02	58 32 34.28	56.50	89.29	19 41 22.0	21.6	21.2
35		B. D. −17° 6081	9	41 34.58	0.03	27.95	20 41 6.60	3.98	56 22 6.00	27.60	82.17	17 30 46.6	45.6	21.7
36		B. D. −21° 5840	9	44 7.31	0.04	−27.95	20 43 39.32	− 4.04	59 50 4.32	25.00	93.97	−20 58 56.7	54.7	−21.5
37		Lal. 40257	9	47 11.94	− 0.04	−27.95	20 46 43.95	− 4.03	58 51 29.58	51.15	90.43	−20 0 18.4	17.4	−21.7
38	19	Capricorni	9	49 47.67	0.03	27.95	20 49 19.69	3.99	57 8 35.95	57.78	84.64	18 17 18.9	18.2	22.0
39	21	Capricorni	9	55 52.88	0.03	27.95	20 55 24.90	3.98	56 45 44.18	6.15	83.41	17 54 25.9	25.3	22.4
40	θ	Capricorni	9	0 58.32	0.03	**27.95**	21 0 30.34	3.98	56 28 17.55	39.50	82.49	17 36 58.4	57.8	22.8
41		O. A. 21183	9	5 33.16	0.03	27.96	21 5 5.17	3.99	57 34 37.30	58.78	86.02	18 43 21.5	20.6	22.8
42		Lal. 41191	9	10 9.68	− 0.03	−27.96	21 9 41.69	− 3.97	56 35 57.65	20.22	82.87	−17 44 38.7	38.9	−23.2

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
12 19 27	76.10	20.0	18.8
20 10	.....	...	18.0
20 22	76.08	19.3	17.8
20 52	.....	....	17.5
21 40	76.10	18.2	16.6
16 13 20	75.40	23.4	21.6
13 30	.....	....	21.6
19 18 57	75.43	26.8	25.7
19 40	.....	....	24.8
20 6	75.42	25.5	24.2
20 32	.....	....	24.0
20 49	.....	....	23.8
20 54	75.43	24.8	....

Bisections are made at II and V, except as noted below.

1. Bisections at c_4, c_5.
3. Bisections at III, VI.
23. Bisections at c_5, c_4, c_2, c_1.
25. Bisections at V, III.
26. Bisections at c_1, c_2, c_4, c_5.

Notes.

1–21. Seeing 2; stars unsteady.
1. Circle A read on 54′ division.
1. Clouds.
3. Circle A, microscopes hurried.
11. Circle A read on 50′ division.
22. Very unsteady.
25–42. Seeing 2–3.
31. Unsteady.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1, from nadir......	+2	31.34	8.51
2–21, from stars......		*	*
23, from nadir......	2	31.35	8.68
25, 26, from nadir......	+2	31.49	9.70
27–42, from stars......		*	8.8

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
2	32.4	9.8
3	30.4	8.2
4	31.3	7.1
8	30.9	8.1
15	32.1	9.0
18	32.1	8.4
19	31.4	8.3
20	31.7	9.4
21	31.2	9.0
27	32.6	10.3
28	30.5	8.5
29	31.0	7.3
33	31.9	9.7
40	31.2	9.2

No.	Name.		Thds.	Mean Thread.	c_0' sec δ + n tan δ.	$\Delta T + m$.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	ι	Capricorni.......	9	17 19.42	− 0.02	**−27.96**	21 16 51.44	− 3.96	56 6 4.42	27.22	81.30	−17 14 43.9	44.3	−23.6
2	γ	Capricorni.......	9	35 11.66	0.02	**27.94**	21 34 43.67	3.94	55 57 15.92	37.80	80.85	17 5 54.6	54.4	24.4
3	κ	Capricorni.......	9	37 43.23	0.03	**28.02**	21 37 15.23	3.96	58 9 37.10	57.85	87.94	19 18 22.7	21.6	24.3
4	δ	Capricorni.......	9	42 9.87	− 0.02	**−27.95**	21 41 41.88	− 3.92	55 25 17.48	40.50	79.27	−16 33 54.4	55.6	−24.5

1902 AUGUST 20. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

No.	Name.		Thds.	Mean Thread.	c_0' sec δ + n tan δ.	$\Delta T + m$.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
5	λ	Ursæ Minoris....	5	20 39.34	+16.42	**[−28.06]**	19 20	....	309 53 53.08	15.30	65.96	+88 59 53.9	54.1	−24.1
6	3	H. Ursæ Majoris s. p.	9	3 33.41	− 0.75	**[27.69]**	8 3	....	287 40	.....	.....	+68 46	....	....
7	β	Capricorni.......	9	16 2.11	− 0.02	**[−27.76]**	20 16	....	53 56	.....	.....	−15 6	....	....

1902 AUGUST 21. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

No.	Name.		Thds.	Mean Thread.	c_0' sec δ + n tan δ.	$\Delta T + m$.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
8	λ	Ursæ Minoris....	2	20 38.10	+14.64	**[−25.90]**	19 20	....	309 53 50.85	.....	65.66	+88 59 55.7	....	−24.4
9	β	Cygni..........	9	27 16.74	+ 0.15	**[27.45]**	19 27	....	11 6	.....	.....	+27 45	....	....
10	62	Sagittarii........	9	57 9.72	− 0.08	**27.43**	19 56 42.22	− 4.21	66 49 12.02	35.48	128.00	−27 58 38.3	38.7	17.0
11	4	Capricorni.......	9	12 47.58	0.06	**27.48**	20 12 20.10	4.06	60 57 30.70	52.98	98.99	22 6 28.1	27.2	19.1
12	β	Capricorni.......	9	16 1.70	0.03	**27.35**	20 15 34.25	3.93	53 56 33.52	57.55	75.60	15 5 7.5	8.4	20.6
13		B. D.−21° 5752..	9	28 16.46	− 0.05	−27.42	20 27 48.99	− 4.05	60 4 36.10	58.02	95.59	−21 13 30.1	28.9	−20.4
14		O. A. 20628......	9	30 21.22	− 0.04	−27.43	20 29 53.75	− 3.99	56 58 22.65	45.98	84.68	−18 7 5.7	5.9	−20.9
15		O. A. 20696......	3	34 26.74	0.05	27.43	20 33 59.26	4.03	58 51	9.60	91.12	20 0 ...	36.0	21.0
16		O. A. 20754......	7	36 56.86	0.06	27.43	20 36 29.37	4.06	60 28	33.75	97.14	21 37 ...	6.2	20.9
17		B. D.−19° 5925..	9	42 19.66	0.04	27.43	20 41 52.19	4.01	57 49 38.30	1.28	87.54	18 58 24.2	24.1	21.5
18		Mayer 881.......	9	44 18.57	0.04	27.43	20 43 51.10	4.00	57 14 44.70	8.88	85.64	18 23 28.7	29.8	21.7
19		Lal. 40311.......	9	48 28.67	− 0.05	−27.43	20 48 1.19	− 4.02	58 19 52.95	14.32	89.29	−19 28 40.6	38.9	−21.8
20	20	Capricorni.......	9	54 33.61	− 0.05	−27.43	20 54 6.13	− 4.01	58 15 45.70	8.10	89.10	−19 24 33.2	32.5	−22.2
21		B. D.−18° 5849..	9	59 1.42	0.04	27.43	20 58 33.95	4.00	57 20 50.02	12.90	86.00	18 29 34.4	34.2	22.5
22		Piazzi XX, 462...	9	2 28.23	0.05	27.43	21 2 0.75	4.01	58 19 39.90	1.88	89.33	19 28 27.6	26.5	22.6
23	ι	Capricorni.......	9	17 18.90	0.04	**27.41**	21 16 51.42	3.97	56 6 3.38	26.75	82.09	17 14 43.9	44.1	23.6
24	γ	Capricorni.......	9	35 11.15	0.04	**27.41**	21 34 43.67	3.94	55 57 14.50	36.55	81.66	17 5 54.6	53.5	24.4
25	κ	Capricorni.......	9	37 42.71	0.05	**27.47**	21 37 15.22	3.97	58 9 35.10	57.70	88.84	19 18 22.3	21.8	24.3
26	δ	Capricorni.......	9	42 9.42	− 0.04	**−27.47**	21 41 41.94	− 3.93	55 25 16.50	40.28	80.08	−16 33 55.0	55.6	−24.4

1902 AUGUST 22. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

No.	Name.		Thds.	Mean Thread.	c_0' sec δ + n tan δ.	$\Delta T + m$.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
27	λ	Ursæ Minoris....	7	20 37.26	+16.99	**[−28.27]**	19 20	....	309 53 51.26	15.78	66.62	+88 59 55.6	54.6	−24.6
28	62	Sagittarii........	9	57 9.54	− 0.10	**27.24**	19 56 42.22	− 4.20	66 49 9.52	31.88	130.10	−27 58 38.5	37.8	17.0
29	4	Capricorni.......	9	12 47.36	0.06	**27.26**	20 12 20.08	4.06	60 57 27.58	50.80	100.70	22 6 27.2	27.2	19.1
30	β	Capricorni	9	16 1.52	0.03	**27.17**	20 15 34.27	3.93	53 56 32.40	56.15	76.93	15 5 8.1	8.8	20.6
31		B. D.−21° 5752..	9	28 16.27	0.05	27.23	20 27 48.99	4.05	60 4 33.48	54.95	97.23	21 13 29.4	27.7	20.4
32		O. A. 20628......	9	30 21.06	− 0.04	−27.23	20 29 53.79	− 3.99	56 58 20.75	43.85	86.18	−18 7 5.6	5.5	−20.9
33		O. A. 20696......	9	34 26.54	− 0.05	−27.23	20 33 59.26	− 4.03	58 51 45.65	8.70	92.68	−20 0 37.0	36.8	−21.0
34		O. A. 20754......	9	36 56.68	0.06	27.23	20 36 29.39	4.06	60 28 9.35	31.70	98.83	21 37 6.8	5.9	20.9
35		B. D.−19° 5925..	9	42 19.51	0.05	27.23	20 41 52.23	4.01	57 49 36.35	59.52	89.06	18 58 24.0	23.9	21.5
36		Mayer 881.......	9	44 18.39	0.05	27.23	20 43 51.11	4.00	57 14 43.98	7.28	87.14	18 23 29.7	29.7	21.7
37		Lal. 40311.......	9	48 28.51	0.05	27.23	20 48 1.23	4.02	58 19 49.42	12.28	90.84	19 28 38.8	38.3	21.8
38	20	Capricorni.....	9	54 33.42	− 0.05	−27.23	20 54 6.14	− 4.01	58 15 44.00	7.48	90.64	−19 24 33.1	33.2	−22.2
39		B. D.−18° 5849..	9	59 1.20	− 0.05	−27.23	20 58 33.92	− 4.00	57 20 47.50	11.18	87.48	−18 29 33.4	33.7	−22.5
40		Piazzi XX, 462...	9	2 28.03	0.05	27.23	21 2 0.75	4.01	58 19 37.98	59.52	90.85	19 28 27.2	25.3	22.6
41		Lal. 41000.......	9	5 24.92	− 0.04	−27.23	21 4 57.65	− 3.98	56 12 15.75	39.25	83.77	−17 20 57.9	58.0	−23.0

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
19 21 20	.....	....	24.0
21 44	75.43	24.5	24.0
20 19 25	75.70	23.5	21.8
20 18	75.68	22.7	21.0
21 19 28	75.49	23.5	22.4
20 2	.....	....	22.3
20 30	75.46	23.0	21.9
21 2	75.46	22.6	21.5
21 40	75.45	22.5	21.2
22 19 8	75.63	20.0	18.9
19 45	.....	....	18.7
20 20	75.64	19.1	17.9
20 46	.....	....	17.6

Bisections are made at II and V, except as noted below.

1, 4. Bisections at III, V.
5. Bisections at c_4, c_5.
8. Bisection at c_1.
15, 16. Bisection at V.
27. Bisections at c_1, c_2, c_4, c_5.

Notes.

1–4. Seeing 2–3.
5, 8. Clouds.
15. Poor observation.
27–41. Seeing 3.
28. Very unsteady.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1–4, from stars		*	8.8
5, from nadir......	+2	31.87	8.98
8, from nadir......	2	31.52	....
10–26, from stars	2	31.5	8.3
27, from nadir......	+2	32.16	9.13
28–41, from stars		*	*

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
1	31.0	8.2
2	30.1	8.2
3	30.9	10.0
4	31.5	8.4
10	33.1	9.5
11	30.3	: 8.0
12	31.1	7.0
23	31.3	7.9
24	30.7	8.6
25	32.0	9.3
26	31.7	7.9
28	33.5	11.0
29	31.7	8.4
30	30.9	7.0

NO.	NAME.		THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T + \dot{m}$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING.		REFR.	APPARENT DECL.		RED. TO 1902.0.
									A.	B.		A.	B.	
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	ι	Capricorni......	9	17 18.76	− 0.04	**−27.27**	21 16 51.48	− 3.97	56 6 2.32	24.88	83.46	−17 14 44.1	43.1	−23.6
2	γ	Capricorni......	9	35 10.92	0.04	**27.17**	21 34 43.64	3.95	55 57 12.92	36.68	83.04	17 5 54.1	54.3	24.4
3	κ	Capricorni......	9	37 42.51	0.05	**27.27**	21 37 15.22	3.97	58 9 34.08	57.38	90.32	19 18 22.5	22.2	24.3
4	δ	Capricorni......	9	42 9.21	− 0.04	**−27.25**	21 41 41.93	− 3.94	55 25 15.55	39.98	81.41	16 33 55.0	55.9	−24.4

1902 AUGUST 23. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

5	λ	Ursæ Minoris...	6	20 36.97	+13.84	[**−25.73**]	19 20	....	309 53 52.02	15.44	66.68	+88 59 54.9	54.5	−24.9
6	β	Aquilæ.........	9	51 0.46	+ 0.06	[**−26.97**]	19 51	....	32 42	.....	.....	+ 6 9	....	....

1902 AUGUST 24. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

7	λ	Ursæ Minoris...	7	20 36.77	+14.24	[**−26.90**]	19 20	....	309 53 51.59	15.90	66.94	+88 59 55.4	54.1	−25.2
8	62	Sagittarii.......	9	57 8.91	− 0.07	**26.65**	19 56 42.21	− 4.19	66 49 8.15	30.95	130.85	−27 58 38.4	38.4	16.9
9	4	Capricorni......	9	12 46.74	0.04	**26.67**	20 12 20.08	4.05	60 57 27.32	49.25	101.25	22 6 28.0	27.2	19.0
10	β	Capricorni......	9	16 0.89	0.02	**26.56**	20 15 34.25	3.92	53 56 30.90	54.38	77.36	15 5 7.8	8.5	20.6
11		B. D.−21° 5752.	9	28 15.57	0.04	26.62	20 27 48.91	4.04	60 4 31.92	54.95	97.77	21 13 29.2	29.6	20.3
12		O. A. 20628.....	9	30 20.44	− 0.03	−26.61	20 29 53.80	− 3.98	56 58 20.05	42.62	86.64	−18 7 6.2	6.1	−20.9
13		O. A. 20696.....	9	34 25.98	− 0.04	−26 61	20 33 59.33	− 4.02	58 51 45.18	7.22	93.20	−20 0 37.9	37.4	−20.9
14		O. A. 20754.....	9	36 56.01	0.04	26.61	20 36 29.36	4.05	60 28 7.65	29.70	99.34	21 37 6.5	6.0	20.8
15		B. D.−19° 5925.	8	42 18.82	0.03	26.61	20 41 52.18	4.00	57 49 35.38	57.88	89.52	18 58 24.4	24.5	21.5
16		Mayer 881......	9	44 17.72	0.03	26.60	20 43 51.09	3.99	57 14 41.00	6.02	87.56	18 23 28.1	30.7	21.7
17		Lal. 40311......	9	48 27.84	0.04	26.60	20 48 1.20	4.01	58 19 49.60	11.42	91.28	19 28 40.4	39.8	21.8
18	20	Capricorni......	9	54 32.76	− 0.03	−26.60	20 54 6.13	− 4.01	58 15 43.78	6.58	91.05	−19 24 34.3	34.8	−22.1
19		B. D.−18° 5849.	9	59 0.53	− 0.03	−26.60	20 58 33.90	− 4.00	57 20 47.65	9.95	87.90	−18 29 35.0	35.0	−22.5
20		Piazzi XX, 462..	9	2 27.38	0.04	26.59	21 2 0.75	4.01	58 19 37.78	58.65	91.31	19 28 28.6	27.2	22.5
21		O. A. 21183.....	9	5 31.83	0.03	26.59	21 5 5.21	4.00	57 34 34.20	56.48	88.72	18 43 22.4	22.5	22.8
22	ι	Capricorni......	9	17 18.10	0.02	**26.63**	21 16 51.50	3.97	56 5 59.45	22.20	83.91	17 14 42.9	43.5	23.6
23	γ	Capricorni......	9	35 10.25	0.02	**26.52**	21 34 43.66	3.95	55 57 11.30	33.58	83.50	17 5 54.3	54.7	24.4
24	κ	Capricorni......	9	37 41.83	0.03	**26.60**	21 37 15.23	3.98	58 9 32.48	52.78	90.82	19 18 22.8	21.3	24.3
25	δ	Capricorni......	9	42 8.49	− 0.02	**−26.55**	21 41 41.90	− 3.94	55 25 13.70	36.32	81.88	−16 33 55.1	55.9	−24.4

1902 AUGUST 25. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

26	λ	Ursæ Minoris...	7	20 34.87	+14.53	[**−26.33**]	19 20	....	309 53 51.05	14.69	66.47	+88 59 55.6	55.0	−25.5
27	62	Sagittarii.......	9	57 8.60	− 0.08	**26.34**	19 56 42.16	− 4.18	66 49 9.22	33.02	129.95	−27 58 38.6	38.4	16.8
28	4	Capricorni......	9	12 46.46	0.05	**26.39**	20 12 20.06	4.04	60 57 28.68	51.32	100.48	22 6 28.5	27.4	19.0
29	β	Capricorni.....	9	16 0.66	0.02	**26.34**	20 15 34.29	3.91	53 56 31.12	55.90	76.77	15 5 7.3	8.4	20.6
30		B. D.−21° 5752.	9	28 15.33	0.04	26.35	20 27 48.94	4.04	60 4 33.15	54.82	97.01	21 13 29.4	27.5	20.3
31		O. A. 20628.....	9	30 20.10	− 0.04	−26.35	20 29 53.71	− 3.98	56 58 21.02	44.12	85.94	−18 7 6.3	5.7	−20.9
32		O. A. 20696.....	9	34 25.69	− 0.04	−26.34	20 33 59.31	− 4.02	58 51 45.92	8.42	92.45	−20 0 37.7	36.6	−20.9
33		O. A. 20754.....	9	36 55.76	0.05	26.34	20 36 29.37	4.05	60 28 7.82	30.52	98.58	21 37 5.7	4.9	20.8
34		B. D.−19° 5925.	9	42 18.57	0.04	26.34	20 41 52.19	4.00	57 49 36.22	58.10	88.82	18 58 24.3	22.7	21.5
35		Mayer 881......	9	44 17.46	0.04	26.34	20 43 51.08	3.99	57 14 43.35	6.40	86.88	18 23 29.5	29.1	21.7
36		Lal. 40311......	9	48 27.59	0.04	26.34	20 48 1.21	4.01	58 19 51.05	12.70	90.57	19 28 40.8	39.0	21.8
37	20	Capricorni......	9	54 32.47	0.04	26.33	20 54 6.10	4.01	58 15 44.02	6.90	90.36	19 24 33.6	33.1	22.1
38		B. D.−18° 5849.	9	59 0.28	− 0.04	−26.33	20 58 33.91	− 4.00	57 20 47.80	11.15	87.22	−18 29 34.2	34.3	−22.5

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
22 21 40	75.65	18.0	17.4
23 19 24	75.75	20.4	19.0
20 0	.....	....	19.4
24 19 25	75.92	20.0	18.4
19 59	.....	....	17.8
20 20	75.91	19.0	17.3
20 52	.....	....	17.3
21 8	75.92	18.5	....
21 37	75.92	18.0	16.9
25 19 19	75.84	22.0	20.3
20 1	.....	....	19.5
20 19	75.86	21.0	....

Bisections are made at II and V, except as noted below.

5, 7, 26.	Bisections at c_1, c_2, c_4, c_5.
16.	Bisections at III, V.

Notes.

1–4.	Seeing 3.
7–25.	Seeing 1–2; not good.
16.	First bisection doubtful.
22.	Circle A read on 6′ division.
24.	Very unsteady and poor.
26–38.	Seeing 4; improving to 5 at end.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1– 4, from stars		*	*
5, from nadir......	+2	32.25	9.64
7, from nadir......	2	32.36	9.76
8–25, from stars	2	32.6	*
26, from nadir......	+2	32.28	9.68
27–38, from stars		*	*

* Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
1	31.0	8.4
2	30.9	7.1
3	31.5	8.1
4	31.3	6.8
8	34.2	11.2
9	31.6	9.5
10	31.9	8.4
22	33.4	10.6
23	32.1	9.7
24	32.6	12.2
25	32.7	10.0
27	34.1	10.2
28	31.0	8.2
29	32.3	7.4

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	Piazzi XX, 462	9	2 27.11	—0.04	26.33	21 2 0.74	— 4.01	58 19 37.32	59.15	90.59	—19 28 27.1	25.6	—22.5
2	Lal. 41000	9	5 24.02	0.03	26.33	21 4 57.66	3.98	56 12 15.70	38.35	83.56	17 20 58.4	57.9	23.0
3	ι Capricorni	9	17 17.80	0.03	**26.32**	21 16 51.45	3.97	56 6 1.35	24.90	83.23	17 14 43.7	44.1	23.6
4	γ Capricorni	9	35 10.03	0.03	**26.28**	21 34 43.69	3.96	55 57 12.32	35.38	82.81	17 5 54.1	54.3	24.4
5	κ Capricorni	9	37 41.59	0.04	**26.34**	21 37 15.24	3.99	58 9 34.02	55.48	90.07	19 18 23.1	21.6	24.2
6	δ Capricorni	9	42 8.28	—0.03	**26.32**	21 41 41.94	— 3.95	55 25 14.55	38.20	81.21	—16 33 54.8	55.5	—24.4

1902 AUGUST 28. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

7	μ Sagittarii	9	8 23.44	—0.14	**—25.50**	18 7 57.78	— 3.66	299 59 1.15	23.85	96.05	—21 4 55.3	56.3	— 9.3
8	λ Sagittarii	9	22 24.86	0.16	**25.49**	18 21 59.19	3.84	295 35 49.38	14.78	115.55	25 28 26.3	24.5	9.0
9	24 Sagittarii	9	28 23.74	0.15	25.51	18 27 58.08	3.82	296 57 59.30	22.12	108.85	24 6 9.6	10.3	10.2
10	Bradley 2332	9	32 31.76	0.14	25.51	18 32 6.11	3.77	299 35 24.78	47.62	97.63	21 28 32.8	33.5	11.3
11	26 Sagittarii	9	36 22.55	0.15	25.51	18 35 56.89	3.85	297 8 49.45	12.65	108.00	23 55 18.4	18.8	10.9
12	Piazzi XVIII, 155	9	39 17.71	—0.16	—25.51	18 38 52.04	— 3.89	295 57 50.68	13.82	113.70	—25 6 22.9	23.2	—10.8
13	O. A. 18667	9	42 28.45	—0.15	—25.50	18 42 2.80	— 3.85	297 42 27.05	50.52	105.55	—23 21 38.4	38.4	—11.6
14	30 Sagittarii	9	45 26.52	0.14	**25.54**	18 45 0.88	3.83	298 47 45.80	7.78	100.90	22 16 15.0	16.4	12.1
15	ν¹ Sagittarii	9	48 44.68	0.15	25.50	18 48 19.03	3.86	298 12 18.92	41.20	103.40	22 51 44.3	45.5	12.3
16	ξ Sagittarii	9	52 22.52	0.14	25.50	18 51 56.88	3.83	299 50 2.02	24.00	96.80	21 13 54.6	56.0	13.1
17	Mayer 779	9	56 12.84	0.15	25.50	18 55 47.19	3.88	298 14 15.92	37.28	103.30	22 49 47.0	49.2	12.9
18	ο Sagittarii	9	59 18.17	—0.14	—25.50	18 58 52.53	— 3.87	299 11 6.30	28.02	99.40	—21 52 52.8	54.5	—13.5
19	Lal. 35745	9	3 18.77	—0.15	—25.50	19 2 53.12	— 3.92	297 43 38.15	1.68	105.60	—23 20 27.1	26.9	—13.4
20	π Sagittarii	7	4 25.70	0.14	**25.52**	19 4 0.06	3.87	299 53 23.90	46.85	96.65	21 10 32.5	32.8	13.9
21	ψ Sagittarii	9	10 1.58	0.16	**25.51**	19 9 35.93	3.99	295 38 55.95	18.80	115.55	25 25 19.1	19.7	13.2
22	d Sagittarii	9	12 23.52	—0.13	**25.46**	19 11 57.90	3.84	301 56 26.10	49.42	89.21	—19 7 22.7	22.7	15.2
23	λ Ursæ Minoris	5	20 36.64	+7.84	25.49	19 20 18.99	6.13	50 1 9.45	32.38	66.66	+88 59 56.2	56.2	26.3
24	h Sagittarii	9	31 14.33	—0.16	**—25.48**	19 30 48.69	— 4.04	295 58 27.68	51.25	114.05	—25 5 45.8	45.5	—15.1
25	f Sagittarii	9	41 8.29	—0.13	**—25.47**	19 40 42.68	— 3.92	301 4 20.60	43.62	92.43	—19 59 31.3	31.4	—17.2
26	Lal. 37659	9	44 55.26	0.14	25.48	19 44 29.64	4.01	298 2 45.58	8.32	104.45	23 1 18.3	18.7	16.8
27	O. A. 20018	7	46 38.20	0.13	25.48	19 46 12.59	3.94	301 7	49.15	92.30	19 56	25.7	17.7
28	Lal. 38048	9	54 15.41	0.14	25.47	19 53 49.80	4.01	298 35 43.10	4.80	102.15	22 28 18.5	19.9	17.6
29	62 Sagittarii	9	57 7.78	0.17	**25.45**	19 56 42.14	4.16	293 5 48.92	13.82	130.25	27 58 40.8	39.0	16.6
30	4 Capricorni	9	12 45.69	—0.14	**—25.54**	20 12 20.09	— 4.03	298 57 34.52	55.55	100.65	—22 6 25.7	27.7	—18.9
31	β Capricorni	9	15 59.82	—0.11	**—25.42**	20 15 34.25	— 3.90	305 58 29.48	52.60	76.88	—15 5 7.0	6.9	—20.6
32	π Capricorni	9	22 12.31	0.12	**25.46**	20 21 46.73	3.97	302 32 7.50	30.00	87.42	18 31 39.5	40.0	20.3
33	ο Capricorni	9	24 46.44	0.12	25.46	20 24 20.86	3.98	302 9 40.82	3.75	88.70	18 54 7.6	7.5	20.5
34	B. D. —21° 5752	9	28 14.54	0.13	25.46	20 27 48.95	4.03	299 50 28.32	50.18	97.16	21 13 28.5	29.6	20.2
35	O. A. 20628	9	30 19.30	0.12	25.46	20 29 53.72	3.97	302 56 40.28	2.60	86.08	18 7 5.5	6.1	20.8
36	O. A. 20696	9	34 24.93	—0.13	—25.45	20 33 59.35	— 4.01	301 3 15.20	37.80	92.62	—20 0 37.1	37.4	—20.8
37	O. A. 20754	9	36 54.94	—0.13	—25.45	20 36 29.36	— 4.04	299 26 54.12	15.90	98.74	—21 37 4.4	5.4	—20.7
38	Lal. 39981	9	38 48.22	0.12	25.45	20 38 22.65	4.00	301 22 27.40	51.05	91.47	19 41 23.9	23.0	21.2
39	B. D. —17° 6081	9	41 32.13	0.12	25.45	20 41 6.56	3.96	303 32 57.25	20.92	84.18	17 30 46.8	45.8	21.6
40	B. D. —21° 5840	9	44 4.89	0.13	25.45	20 43 39.31	4.03	300 5 2.45	23.70	96.27	20 58 53.7	55.2	21.3
41	Lal. 40257	9	47 9.49	0.12	25.45	20 46 43.92	4.01	301 3 34.35	57.12	92.62	20 0 18.2	18.2	21.6
42	19 Capricorni	9	49 45.18	—0.12	—25.45	20 49 19.61	— 3.98	302 46 27.65	51.10	86.70	—18 17 19.1	18.3	—21.9
43	21 Capricorni	9	55 50.42	—0.12	—25.44	20 55 24.86	— 3.98	303 9 21.50	43.12	85.47	—17 54 24.1	25.1	—22.4
44	B. D. —18° 5849	9	58 59.46	0.12	25.44	20 58 33.90	3.99	302 34 12.65	34.48	87.38	18 29 34.8	35.7	22.4
45	θ Capricorni	9	0 55.89	0.11	**25.45**	21 0 30.34	3.97	303 26 47.38	9.75	84.55	17 36 57.4	57.7	22.6
46	Lal. 41000	9	5 23.19	0.11	25.44	21 4 57.64	3.98	303 42 44.50	7.12	83.70	17 20 59.5	59.5	22.9
47	Lal. 41191	9	10 7.22	0.11	25.43	21 9 41.68	3.98	303 19 5.55	28.15	84.98	17 44 39.8	39.8	23.1
48	ι Capricorni	9	17 16.98	—0.11	**—25.42**	21 16 51.44	3.97	303 49 0.60	22.08	83.41	17 14 43.4	44.4	—23.5
49	γ Capricorni	9	35 9.23	—0.11	**—25.40**	21 34 43.70	— 3.96	303 57 50.20	12.12	83.02	—17 5 53.9	54.3	—24.3
50	κ Capricorni	9	37 40.76	0.11	**25.43**	21 37 15.23	4.00	301 45 28.48	52.10	90.32	19 18 23.0	21.7	24.2
51	δ Capricorni	9	42 7.46	—0.10	**—25.42**	21 41 41.94	— 3.96	304 29 46.82	8.85	81.41	—16 33 56.1	56.1	—24.4

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
25 21 7	.....	....	19.0
21 40	75.84	19.7	18.8
28 18 6	76.16	23.0	21.6
18 35	.....	....	21.4
19 14	76.15	22.0	20.7
19 51	.....	....	20.1
20 19	76.16	21.0	20.0
21 3	76.16	20.5	19.7
21 40	76.16	20.0	19.2

Bisections are made at II and V, except as noted below.

20. Bisections at III, V.
23. Bisections at c_1, c_5.

Notes.

1–6. Seeing 5.
7–51. Seeing 4.
13. Faint.
33. First bisection doubtful.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1– 6, from stars . .		*	*
7–22, 24–51, from stars . .		*	*
23, from nadir . .	+2	25.64	2.76

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
3	32.2	8.6
4	31.8	8.6
5	31.9	10.4
6	32.5	8.8
7	24.3	1.7
8	26.0	0.7
14	24.5	2.6
20	25.2	2.3
21	24.8	2.1
22	24.2	1.0
24	26.0	2.6
25	25.3	2.4
29	25.9	1.1
30	23.9	3.0
31	25.2	2.2
32	26.1	3.7
45	23.7	1.4
48	23.9	2.5
49	23.8	2.0
50	23.8	0.3
51	24.3	2.3

1902 AUGUST 29. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	c_0'SEC δ + nTAN δ.	ΔT+m.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	μ	Sagittarii........	9	8 23.06	−0.14	**−25.14**	18 7 57.79	−3.64	299 58 59.95	22.05	95.63	−21 4 55.8	56.7	−9.3
2	λ	Sagittarii........	9	22 24.46	0.16	**25.11**	18 21 59.18	3.82	295 35 49.40	14.28	115.05	25 28 25.5	23.8	9.0
3	24	Sagittarii........	9	28 23.36	0.15	25.12	18 27 58.09	3.81	296 57 58.42	22.05	108.40	24 6 9.7	9.3	10.1
4		O. A. 18413......	9	29 55.53	0.14	25.12	18 29 30.27	3.76	298 54 6.68	28.70	100.00	22 9 53.1	54.3	10.8
5		Bradley 2332.....	9	32 31.35	0.14	25.11	18 32 6.10	3.75	299 35 24.20	47.45	97.23	21 28 32.8	32.8	11.3
6	26	Sagittarii........	9	36 22.08	−0.15	−25.11	18 35 56.82	−3.83	297 8 48.78	11.48	107.60	−23 55 18.5	19.1	−10.9
7		Piazzi XVIII, 155.	9	39 17.27	−0.15	−25.11	18 38 52.01	−3.88	295 57 49.60	13.55	113.25	−25 6 23.3	22.7	−10.8
8		O. A. 18667......	9	42 27.98	0.14	25.11	18 42 2.73	3.84	297 42 26.68	49.40	105.10	23 21 38.1	38.7	11.6
9	30	Sagittarii........	9	45 26.06	0.14	**25.10**	18 45 0.82	3.81	298 47 44.92	7.50	100.45	22 16 15.1	15.8	12.1
10	ν^1	Sagittarii........	9	48 44.24	0.14	25.10	18 48 19.00	3.85	298 12 18.30	40.58	102.95	22 51 44.2	45.2	12.2
11	ξ	Sagittarii........	9	52 22.11	0.13	25.10	18 51 56.88	3.82	299 50 1.35	23.72	96.38	21 13 54.6	55.5	13.0
12		Mayer 779.......	9	56 12.42	−0.14	−25.10	18 55 47.18	−3.87	298 14 13.98	36.80	102.85	−22 49 48.3	48.9	−12.9
13	o	Sagittarii........	9	59 17.76	−0.14	−25.10	18 58 52.52	−3.86	299 11 4.78	27.62	98.95	−21 52 53.6	54.2	−13.4
14		Lal. 35745.......	9	3 18.36	0.14	25.09	19 2 53.13	3.91	297 43 37.60	0.95	105.10	23 20 27.0	27.0	13.3
15	π	Sagittarii........	9	4 25.26	0.13	**25.10**	19 4 0.04	3.86	299 53 22.72	45.88	96.20	21 10 33.0	33.2	13.9
16	ψ	Sagittarii........	9	10 1.18	0.15	**25.13**	19 9 35.94	3.98	295 38 54.82	18.42	115.00	25 25 19.5	19.3	13.2
17	d	Sagittarii........	9	12 23.09	−0.12	**25.05**	19 11 57.88	3.83	301 56 25.58	48.42	88.78	−19 7 22.6	23.1	15.2
18	λ	Ursæ Minoris....	5	20 34.94	+8.64	−25.08	19 20 18.50	−4.88	50 1 10.82	32.95	66.33	+88 59 57.5	56.3	−26.5
19	h	Sagittarii........	9	31 13.93	−0.15	**−25.10**	19 30 48.70	−4.03	295 58 27.10	51.02	113.40	−25 5 45.6	45.1	−15.1
20	f	Sagittarii........	9	41 7.88	0.12	**25.08**	19 40 42.69	3.91	301 4 20.25	42.98	91.90	19 59 30.9	31.7	17.1
21		Lal. 37659........	9	44 54.82	0.14	25.07	19 44 29.61	4.00	298 2 45.35	8.85	103.85	23 1 17.8	17.8	16.8
22		O. A. 20018......	9	46 37.77	0.12	25.07	19 46 12.58	3.93	301 7 26.15	48.20	91.75	19 56 24.9	26.3	17.6
23		Lal. 38048.......	9	54 14.99	0.13	25.07	19 53 49.79	4.00	298 35 41.90	5.12	101.55	22 28 19.0	19.2	17.6
24	62	Sagittarii........	9	57 7.39	−0.16	**−25.08**	19 56 42.17	−4.15	293 5 47.48	13.05	129.40	−27 58 41.3	39.1	−16.5
25	4	Capricorni.......	.	.. ..	....	.....	20 12	....	298 57 33.20	54.78	100.20	−22 6 26.5	28.2	−18.9
26	β	Capricorni.......	9	15 59.42	−0.10	**−25.04**	20 15 34.26	−3.89	305 58 29.75	52.88	76.52	15 5 6.3	6.5	20.6
27	π	Capricorni.......	9	22 11.86	0.12	**25.02**	20 21 46.68	3.96	302 32 6.82	30.55	87.06	18 31 39.8	39.4	20.3
28	ο	Capricorni.......	9	24 46.01	0.12	25.06	20 24 20.83	3.97	302 9 40.78	4.42	88.33	18 54 7.1	6.8	20.4
29		B. D. −21° 5752..	9	28 14.12	0.12	25.05	20 27 48.95	4.02	299 50 28.60	50.02	96.78	21 13 27.9	29.6	20.2
30		O. A. 20628......	9	30 18.88	−0.11	−25.05	20 29 53.72	−3.96	302 56 40.75	3.55	85.78	−18 7 4.7	5.1	−20.8
31		O. A. 20696......	9	34 24.41	−0.12	−25.05	20 33 59.24	−4.00	301 3 14.62	38.32	92.30	−20 0 37.4	37.0	−20.8
32		O. A. 20754......	9	36 54.54	0.13	25.05	20 36 29.36	4.03	299 26 54.18	15.80	98.42	21 37 4.0	5.6	20.7
33		Lal. 39981.......	9	38 47.79	0.12	25.05	20 38 22.62	4.00	301 22 27.95	51.00	91.20	19 41 23.1	23.2	21.1
34		B. D. −17° 6081..	9	41 31.74	0.11	25.05	20 41 6.58	3.96	303 32 57.52	20.45	83.93	17 30 46.3	46.5	21.6
35		B. D. −21° 5840..	9	44 4.47	0.12	25.05	20 43 39.30	4.03	300 5 1.75	24.10	96.01	20 58 54.1	54.9	21.3
36		Lal. 40257.......	9	47 9.06	−0.12	−25.05	20 46 43.89	−4.01	301 3 34.68	57.55	92.38	−20 0 17.6	17.8	−21.6
37	19	Capricorni.......	9	49 44.78	−0.11	−25.05	20 49 19.62	−3.98	302 46 29.02	51.72	86.52	−18 17 17.5	17.9	−21.9
38	21	Capricorni.......	9	55 49.95	0.11	25.05	20 55 24.79	3.98	303 9 21.12	43.60	85.33	17 54 24.3	24.9	22.4
39		B. D. 18° 5849..	9	58 59.07	0.11	25.05	20 58 33.91	3.99	302 34 14.32	36.10	87.28	18 29 33.2	34.4	22.4
40	θ	Capricorni.......	9	0 55.48	0.11	**25.04**	21 0 30.32	3.97	303 26 48.00	10.75	84.45	17 36 56.8	56.9	22.6
41		Lal. 41000.......	9	5 22.80	0.11	25.05	21 4 57.64	3.98	303 42 45.05	8.65	83.64	17 20 58.9	58.3	22.9
42		Lal. 41191.......	9	10 6.78	−0.11	−25.05	21 9 41.62	−3.98	303 19 6.75	28.85	84.96	−17 44 38.7	39.5	−23.1
43	ι	Capricorni.......	9	17 16.57	−0.11	**−25.01**	21 16 51.41	−3.97	303 49 0.75	22.52	83.43	−17 14 43.4	44.4	−23.5
44	γ	Capricorni.......	9	35 8.88	0.10	**25.06**	21 34 43.73	3.96	303 57 50.10	12.08	82.87	17 5 54.3	54.7	24.3
45	κ	Capricorni.......	9	37 40.39	0.11	**25.06**	21 37 15.23	4.00	301 45 28.20	51.40	90.12	19 18 23.5	22.7	24.2
46	δ	Capricorni.......	9	42 7.12	−0.10	**−25.08**	21 41 41.97	−3.96	304 29 46.38	9.75	81.23	−16 33 56.7	55.6	−24.4

1902 AUGUST 30. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

47	μ	Sagittarii........	9	8 22.57	−0.14	**−24.66**	18 7 57.72	−3.63	299 59 0.78	21.45	95.54	−21 4 55.3	56.9	−9.3
48	λ	Sagittarii........	9	22 24.03	0.16	**24.69**	18 21 59.16	3.81	295 35 49.42	13.90	115.00	25 28 25.9	23.7	9.0
49	24	Sagittarii........	9	28 22.91	0.15	24.71	18 27 58.05	3.79	296 57 58.85	21.72	108.40	24 6 9.8	9.1	10.1
50		O. A. 18413.....	9	29 55.15	0.14	24.71	18 29 30.30	3.75	298 54 7.58	28.38	100.00	22 9 52.7	54.1	10.8
51		Bradley 2332.....	9	32 30.96	0.14	24.71	18 32 6.11	3.74	299 35 25.25	46.98	97.28	21 28 32.3	32.8	11.2
52	26	Sagittarii........	9	36 21.69	−0.15	−24.71	18 35 56.83	−3.82	297 8 49.28	12.50	107.65	−23 55 18.6	17.6	−10.8

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
29 18 6	76.27	24.5	23.2
18 38	....	....	22.9
19 17	76.29	23.7	22.6
20 2	.....	....	22.2
20 51	76.30	22.3	20.9
21 15	.....	....	19.9
21 40	76.27	21.4	20.2
30 18 7	76.19	25.2	23.2

Bisections are made at II and V, except as noted below.

15, 33. Bisections at III, V.
18. Bisections at c_1, c_5.

Notes.

1–46. Seeing 4.
28. Double, observed n. f.
47–52. Seeing 3.

Adopted Zenith Point Corrections.

	A.	B.
	″	″
1–17, 19–46, from stars	*	*
18, from nadir	2 25.88	2.54
47–52, from stars	*	*

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
1	25.1	3.1
2	25.5	0.7
9	24.9	2.4
15	25.9	2.8
16	25.4	1.9
17	24.3	1.5
19	26.0	2.1
20	25.0	2.4
24	26.4	0.9
25	24.8	3.3
26	24.6	1.5
27	26.4	2.8
40	23.0	0.3
43	23.8	2.1
44	23.8	1.9
45	23.9	0.8
46	24.6	1.3
47	24.1	3.6
48	25.4	1.1

NO.		NAME.	THDS.	MEAN THREAD.	$c_0' \sec \delta + n \tan \delta$.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		Piazzi XVIII, 155.	9	39 16.87	−0.15	−24.71	18 38 52.01	− 3.86	295 57 50.00	13.30	113.30	−25 6 23.5	22.4	−10.7
2		O. A. 18667......	9	42 27.61	0.15	24.71	18 42 2.75	3.83	297 42 26.75	48.95	105.15	23 21 38.6	38.6	11.5
3	30	Sagittarii........	9	45 25.73	0.14	**24.78**	18 45 0.88	3.80	298 47 45.75	7.32	100.55	22 16 15.0	15.6	12.0
4	ν¹	Sagittarii........	9	48 43.87	0.14	24.71	18 48 19.02	3.84	298 12 18.85	40.78	103.10	22 51 44.4	44.6	12.2
5	ξ	Sagittarii........	9	52 21.66	0.14	24.71	18 51 56.81	3.80	299 50 2.05	22.42	96.49	21 13 54.5	56.3	13.0
6		Mayer 779......	9	56 11.96	−0.14	−24.71	18 55 47.11	− 3.86	298 14 15.22	36.42	103.00	−22 49 47.8	48.9	−12.8
7	ο	Sagittarii........	9	59 17.31	−0.14	−24.71	18 58 52.46	− 3.84	299 11 5.68	28.00	99.08	−21 52 53.5	53.3	13.4
8		Lal. 35745......	9	3 17.97	0.14	24.71	19 2 53.12	3.90	297 43 37.60	0.02	105.25	23 20 27.7	27.4	13.3
9	ψ	Sagittarii........	9	10 0.72	0.15	**24.69**	19 9 35.86	3.96	295 38 55.48	17.98	115.20	25 25 19.8	19.4	13.2
10	d	Sagittarii........	9	12 22.76	−0.13	**24.72**	19 11 57.92	3.82	301 56 25.10	47.95	88.94	19 7 23.8	23.2	15.2
11	λ	Ursæ Minoris....	5	20 34.34	+5.66	24.70	19 20 15.30	3.65	50 1 10.08	31.00	66.45	+88 59 56.8	55.4	26.7
12	h	Sagittarii........	9	31 13.59	−0.15	**−24.77**	19 30 48.74	− 4.02	295 58 28.40	49.82	113.65	−25 5 45.2	45.9	−15.0
13	f	Sagittarii........	9	41 7.50	−0.13	**−24.70**	19 40 42.67	− 3.90	301 4 21.35	42.12	92.07	−19 59 30.7	31.9	17.1
14		Lal. 37659......	9	44 54.40	0.14	24.70	19 44 29.56	3.99	298 2 45.50	7.48	104.05	23 1 18.5	18.5	16.7
15		O. A. 20018......	5	46 37.39	0.13	24.70	19 46 12.56	3.92	301 7 26.10	46.90	91.92	19 56 25.8	27.0	17.6
16		Lal. 38048......	9	54 14.54	0.14	24.70	19 53 49.70	4.00	298 35 42.15	4.18	101.75	22 28 19.6	19.5	17.5
17	62	Sagittarii	9	57 6.98	0.16	**24.68**	19 56 42.12	4.14	293 5 48.95	12.00	129.70	27 58 40.7	39.7	16.5
18	4	Capricorni.......	9	12 44.86	−0.13	**−24.73**	20 12 20.04	4.02	298 57 33.45	55.40	100.30	−22 6 26.9	26.8	−18.8
19	β	Capricorni.......	9	15 59.01	−0.11	**24.63**	20 15 34.21	3.88	305 58 29.28	50.98	76.60	−15 5 7.4	7.5	−20.6
20	π	Capricorni.......	9	22 11.50	0.12	**24.66**	20 21 46.69	3.96	302 32 7.58	29.40	87.12	18 31 39.6	39.6	20.2
21	ο	Capricorni.......	9	24 45.69	0.12	24.68	20 24 20.89	3.97	302 9 41.60	2.75	88.39	18 54 6.9	7.5	20.4
22		B. D.−21° 5752..	9	28 13.81	0.13	24.68	20 27 49.00	4.02	299 50 27.62	48.80	96.83	21 13 29.3	29.9	20.1
23		O. A. 20628......	9	30 18.62	0.12	24.68	20 29 53.82	3.96	302 56 41.10	1.38	85.80	18 7 4.8	6.3	20.8
24		O. A. 20696......	9	34 24.06	−0.12	−24.68	20 33 59.26	− 4.00	301 3 14.72	35.82	92.30	−20 0 37.8	38.3	−20.7
25		Lal. 39981......	9	38 47.44	−0.12	−24.68	20 38 22.64	4.00	301 22 27.35	49.40	91.16	−19 41 24.0	23.6	−21.1
26		B. D.−17° 6081..	9	41 31.38	0.12	24.67	20 41 6.59	3.95	303 32 56.18	18.25	83.89	17 30 47.9	47.5	21.6
27		B. D.−21° 5840..	8	44 4.17	0.13	24.67	20 43 39.37	4.02	300 5 0.60	22.35	95.94	20 58 55.5	55.5	21.2
28		Lal. 40257......	9	47 8.71	0.12	24.67	20 46 43.92	4.00	301 3 33.18	55.68	92.30	20 0 19.3	18.5	21.5
29	19	Capricorni.......	9	49 44.48	0.12	24.67	20 49 19.69	3.97	302 46 28.20	50.15	86.40	18 17 18.5	18.0	21.9
30	21	Capricorni.......	9	55 49.67	0.12	−24.67	20 55 24.88	3.97	303 9 19.82	41.82	85.15	−17 54 25.6	25.1	22.4
31		B. D. −18° 5849..	9	58 58.74	−0.12	−24.66	20 58 33.96	3.98	302 34 12.30	33.98	87.08	−18 29 35.1	34.9	−22.4
32	θ	Capricorni.......	9	0 55.07	0.12	**24.62**	21 0 30.29	3.97	303 26 46.42	8.25	84.24	17 36 58.1	57.8	22.6
33		Piazzi XX, 487...	9	5 10.31	0.11	24.66	21 4 45.54	3.95	304 58 4.20	25.85	79.60	16 5 35.8	35.5	23.1
34		Lal. 41191......	9	10 6.44	0.12	24.66	21 9 41.66	3.97	303 19 6.38	27.00	84.64	17 44 38.7	39.4	23.1
35	ι	Capricorni.......	9	17 16.19	0.11	**24.63**	21 16 51.43	3.97	303 48 59.78	20.80	83.08	17 14 43.8	44.1	23.5
36	γ	Capricorni.......	9	35 8.49	−0.11	**−24.66**	21 34 43.75	− 3.96	303 57 49.15	9.88	82.66	−17 5 54.1	54.7	−24.2
37	κ	Capricorni.......	9	37 40.02	0.12	**−24.68**	21 37 15.27	4.00	301 45 27.55	49.65	89.93	−19 18 23.1	22.1	−24.2
38	δ	Capricorni.......	9	42 6.67	−0.11	**−24.62**	21 41 41.93	− 3.96	304 29 46.52	7.58	81.06	−16 33 55.2	55.4	−24.4

1902 AUGUST 31. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	$c_0' \sec \delta + n \tan \delta$.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
39	μ	Sagittarii........	9	8 22.21	−0.12	**−24.34**	18 7 57.77	− 3.61	299 58 58.82	20.92	94.69	−21 4 55.6	56.3	− 9.3
40	λ	Sagittarii........	9	22 23.62	0.14	**24.32**	18 21 59.15	3.79	295 35 48.55	12.15	114.00	25 28 25.1	24.3	8.9
41		O. A. 18413......	9	29 54.78	0.12	24.34	18 29 30.32	3.73	298 54 7.15	27.28	99.15	22 9 51.7	54.3	10.8
42		Bradley 2333.....	9	33 1.39	0.13	24.34	18 32 36.92	3.78	297 28 56.15	18.88	105.20	23 35 8.7	8.7	10.6
43		O. A. 18582......	9	37 53.96	0.12	24.34	18 37 29.50	3.77	298 33 48.52	10.20	100.60	22 30 11.8	12.8	11.4
44	28	Sagittarii........	9	40 54.30	−0.12	−24.34	18 40 29.84	− 3.78	298 34 30.25	51.95	100.60	−22 29 30.0	31.0	−11.6
45		Lal. 35010.	9	46 19.97	−0.13	−24.34	18 45 55.50	− 3.86	296 18 11.18	34.18	110.75	−24 45 59.2	58.9	−11.4
46		O. A. 19141......	9	4 6.21	0.12	24.35	19 3 41.74	3.86	298 32 12.82	34.02	100.90	22 31 47.8	49.2	13.5
47		Lal. 36016......	9	8 45.08	0.12	24.35	19 8 20.61	3.87	298 50 36.15	56.92	99.65	22 13 23.3	25.0	14.0
48	ψ	Sagittarii........	9	10 0.36	0.13	**24.36**	19 9 35.88	3.95	295 38 54.58	17.00	114.15	25 25 19.4	19.4	13.1
49	d	Sagittarii........	9	12 22.37	−0.11	**24.37**	19 11 57.91	3.80	301 56 24.50	46.55	88.15	−19 7 23.4	23.9	15.2
50	λ	Ursæ Minoris....	5	20 33.04	+7.10	−24.35	19 20 15.79	− 2.45	50 1 10.85	32.42	65.86	+88 59 56.6	56.4	−26.9

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
30 18 41	.....	....	22.4
19 15	76.22	23.5	21.7
20 5	.....	....	21.2
20 32	76.20	22.4	20.9
21 7	.....	....	20.7
21 40	76.15	21.6	20.4
31 18 11	75.97	26.5	24.8
18 40	.....	....	24.0
19 17	75.98	25.0	23.4

Bisections are made at II and V, except as noted below.

11, 50. Bisections at c_1, c_5.
48. Bisections at III, V.

Notes.

1–38. Seeing 3.
2, 22. Faint.
24. Very faint.
27. Faint; poor observation.
31. Second bisection poor.

Adopted Zenith Point Corrections.

		A.	B.
	′	″	″
1–10, 12–38, from stars.......		*	*
11, from nadir......	+2	25.85	3.46
39–49, from stars		*	*
50, from nadir......	+2	25.40	3.70

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
3	24.1	2.6
9	25.0	2.6
10	24.9	2.2
12	24.8	3.5
13	24.1	3.4
17	25.2	2.3
18	24.5	2.7
19	25.1	3.5
20	25.6	3.9
32	24.3	2.6
35	24.4	3.5
36	24.4	3.8
37	24.4	2.3
38	24.2	3.3
39	25.3	3.2
40	25.2	1.7
48	24.8	2.4
49	24.7	2.8

NO.		NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T - m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	*h*	Sagittarii........	9	31 13.14	— 0.13	**—24.35**	19 30 48.66	- 4.01	295 58 26.98	48.82	112.65	-25 5 45.5	46.0	-15.0
2		C. P. D.—21° 7493	9	41 10.60	0.12	24.35	19 40 46.13	3.94	299 18 35.52	56.25	97.93	21 45 22.3	23.8	16.7
3		O. A. 20018......	9	46 37.13	0.11	24.35	19 46 12.67	3.91	301 7 24.55	46.32	91.16	19 56 26.5	27.0	17.5
4		Lal. 38096.......	9	55 16.69	0.11	24.35	19 54 52.23	3.94	300 56 40.32	1.12	91.83	20 7 11.5	12.9	18.1
5	62	Sagittarii........	9	57 6.61	0.14	**24.34**	19 56 42.12	4.13	293 5 47.68	10.95	128.60	27 58 40.9	39.8	16.4
6	4	Capricorni.......	9	12 44.48	0.12	**—24.37**	20 12 20.01	— 4.01	298 57 32.65	53.68	99.52	—22 6 26.9	27.9	—18.8
7	*β*	Capricorni.......	9	15 58.72	- 0.09	**—24.36**	20 15 34.28	— 3.88	305 58 29.10	51.50	76.02	—15 5 7.0	6.6	—20.6
8	*π*	Capricorni.......	9	22 11.16	0.10	**24.35**	20 21 46.71	3.95	302 32 6.18	29.52	86.48	18 31 40.4	39.0	20.2
9		Lal. 39577.......	9	29 18.03	0.11	24.35	20 28 53.57	3.98	301 20 14.55	35.35	90.62	19 43 36.2	37.2	20.5
10		Mayer 871.......	9	31 14.68	0.11	24.34	20 30 50.23	4.00	300 8 49.45	9.50	94.97	20 55 5.7	7.4	20.4
11	*υ*	Capricorni.......	9	34 56.69	0.10	**24.30**	20 34 32.25	3.97	302 35 6.20	28.20	86.38	18 28 40.4	40.2	21.1
12		O. A. 20754......	9	36 53.83	- 0.11	—24.34	20 36 29.38	— 4.02	299 26 52.92	13.38	97.70	-21 37 4.9	6.3	—20.6
13		B. D.—19° 5925..	9	42 16.62	— 0.10	-24.34	20 41 52.18	— 3.98	302 5 24.10	46.55	88.02	-18 58 24.1	23.4	—21.4
14		Mayer 881.......	9	44 15.48	0.10	24.34	20 43 51.04	3.97	302 40 16.80	38.65	86.10	18 23 29.6	29.4	21.6
15		Lal. 40311.......	9	48 25.60	0.11	24.34	20 48 1.15	3.99	301 35 10.28	33.35	89.76	19 28 39.8	38.4	21.7
16	20	Capricorni.......	9	54 30.51	0.11	24.34	20 54 6.06	4.00	301 39 16.85	38.08	89.54	19 24 33.0	33.4	22.0
17		Piazzi XX, 462...	9	2 25.14	0.11	24.33	21 2 0.70	4.00	301 35 23.25	45.02	89.74	19 28 26.9	26.7	22.4
18		Piazzi XX, 487...	9	5 9.96	— 0.09	—24.33	21 4 45.54	— 3.95	304 58 2.82	25.02	79.00	-16 5 36.6	35.9	—23.1
19	*ι*	Capricorni.......	9	17 15.86	— 0.10	**-24.31**	21 16 51.43	— 3.97	303 48 59.72	20.80	82.43	—17 14 43.2	43.5	-23.5
20	*γ*	Capricorni.......	9	35 8.12	0.10	**24.30**	21 34 43.70	3.96	303 57 48.75	9.88	82.02	17 5 53.9	54.0	24.2
21	*κ*	Capricorni.......	9	37 39.67	0.10	**24.35**	21 37 15.25	4.00	301 45 26.75	48.58	89.23	19 18 23.1	22.4	24.2
22	*δ*	Capricorni......	9	42 6.37	— 0.10	**24.33**	21 41 41.95	- 3.96	304 29 45.52	6.80	80.43	-16 33 55.5	55.4	-24.4

1902 SEPTEMBER 1. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T - m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
23	*μ*	Sagittarii........	9	8 21.86	— 0.14	**—23.98**	18 7 57.73	— 3.60	299 58 58.10	19.18	93.84	—21 4 54.8	56.4	— 9.3
24	*λ*	Sagittarii........	9	22 23.28	0.16	**23.97**	18 21 59.13	3.78	295 35 46.38	10.58	112.90	25 28 25.8	24.2	8.9
25		Bradley 2333.....	9	33 1.03	0.15	23.99	18 32 36.89	3.77	297 28 54.72	17.00	104.15	23 35 8.8	9.1	10.5
26		O. A. 18582......	9	37 53.62	0.14	23.99	18 37 29.49	3.76	298 33 46.88	9.15	99.56	22 30 12.2	12.4	11.3
27	28	Sagittarii........	9	40 53.98	0.14	23.99	18 40 29.85	3.77	298 34 29.18	49.32	99.54	22 29 29.8	32.2	11.5
28		O. A. 19141......	9	4 5.81	— 0.14	23.99	19 3 41.68	— 3.85	298 32 10.58	32.52	99.77	-22 31 49.0	49.4	—13.5
29		Lal. 36016.......	9	8 44.75	— 0.14	-23.99	19 8 20.62	- 3.86	298 50 34.75	55.45	98.54	22 13 23.7	25.3	-13.9
30	*ψ*	Sagittarii........	9	10 0.01	0.15	**24.00**	19 9 35.87	3.94	295 38 52.22	14.92	112.85	25 25 20.5	20.1	13.1
31	*d*	Sagittarii.......	9	12 22.01	- 0.13	**—24.00**	19 11 57.89	- 3.79	301 56 24.02	45.88	87.16	—19 7 23.0	23.4	-15.1

1902 SEPTEMBER 4. CLAMP WEST.

UPDEGRAFF, OBSERVER. HAMMOND, ASSISTANT.

NO.		NAME.	THDS.	MEAN THREAD.	$c_0' \sec\delta + n \tan\delta$.	$\Delta T - m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
32	*ψ*	Sagittarii........	9	9 59.02	— 0.17	**—23.03**	19 9 35.83	— 3.90	295 38 55.58	19.12	115.95	—25 25 20.8	21.1	-12.9
33	*d*	Sagittarii........	9	12 21.01	— 0.14	**23.03**	19 11 57.85	— 3.75	301 56 26.28	49.68	89.50	-19 7 23.6	24.1	15.1
34	*λ*	Ursæ Minoris....	5	20 24.14	- 10.30	23.02	19 20 11.42	+ 1.85	50 1 11.62	33.65	66.82	+88 59 59.1	57.3	27.7
35	*h*	Sagittarii........	9	31 11.79	— 0.17	**23.01**	19 30 48.60	— 3.96	295 58 29.35	53.22	114.20	—25 5 44.8	44.7	14.8
36		C. P. D.—21° 7493	9	41 9.22	0.15	23.02	19 40 46.05	3.90	299 18 37.45	58.48	99.22	21 45 21.6	24.3	16.5
37		Lal. 38096.......	9	55 15.27	-- 0.14	—23.02	19 54 52.11	— 3.89	300 56 42.58	5.42	92.98	-20 7 10.1	10.9	—17.9
38	62	Sagittarii........	9	57 5.31	— 0.18	**—23.04**	19 56 42.11	- 4.09	293 5 47.85	12.92	130.25	—27 58 41.9	40.7	— 16.1
39	4	Capricorni.......	9	12 43.17	0.15	**23.07**	20 12 20.01	3.97	298 57 33.08	55.10	100.75	22 6 27.1	28.8	18.6
40	*β*	Capricorni.......	9	15 57.34	0.12	**22.99**	20 15 34.21	3.84	305 58 30.35	53.80	76.98	15 5 6.2	6.4	20.5
41	*π*	Capricorni.......	9	22 9.79	0.13	**22.98**	20 21 46.65	3.92	302 32 8.05	31.30	87.56	18 31 39.0	39.3	20.1
42		Lal. 39577.......	9	29 16.72	0.13	23.01	20 28 53.58	3.95	301 20 14.80	37.30	91.75	19 43 36.4	37.4	20.1
43		Mayer 871.......	9	31 13.38	— 0.14	—23.01	20 30 50.23	— 3.97	300 8 50.50	12.38	96.16	-20 55 5.1	6.8	-20.3
44	*υ*	Capricorni.......	9	34 55.38	- 0.13	**—22.99**	20 34 32.24	— 3.94	302 35 6.42	30.45	87.50	—18 28 40.6	40.0	—21.0
45		B. D. —19° 5925..	9	42 15.22	0.13	23.00	20 41 52.09	3.95	302 5 26.15	49.25	89.21	18 58 22.6	22.9	21.3
46		Mayer 881.......	9	44 14.17	0.13	23.00	20 43 51.04	3.95	302 40 17.62	38.60	87.28	18 23 29.3	31.7	21.5
47		Lal. 40311.......	9	48 24.23	0.13	23.00	20 48 1.10	3.97	301 35 11.30	35.35	90.99	19 28 39.3	38.5	21.6
48	20	Capricorni.......	9	54 29.19	0.13	23.00	20 54 6.06	3.98	301 39 19.12	41.12	90.82	19 24 31.3	32.6	21.9
49		Piazzi XX, 462...	9	2 23.77	— 0.13	—22.99	21 2 0.65	— 3.98	301 35 24.95	48.52	91.10	-19 28 25.8	25.5	-22.3

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
31 20 1	.....	....	22.7
20 33	75.97	23.5	22.1
21 14	.....	....	22.0
21 40	75.93	23.0	21.7
1 18 11	75.70	27.9	26.4
18 43	.....	....	26.0
19 15	75.74	26.9	25.7
4 19 5	75.73	20.0	18.2
19 30	.....	....	18.5
20 1	75.75	19.4	18.5
20 33	.....	....	17.9
21 4	75.79	18.5	17.[illegible]

Bisections are made at II and V, except as noted below.

34. Bisections at c_1, c_5.
45. Bisections at III, V.

Notes.

1–22. Seeing 4.
3. Very faint; poor.
34. Very unsteady.
32–49. Seeing 2–3.

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1–22, from stars	*	*
23–31, from stars	*	*
32, 33, 35–49, from stars	*	*
34, from nadir......	+2 26.23	2.36

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
1	25.2	3.5
5	25.3	2.1
6	24.5	3.6
7	24.7	2.4
8	26.4	3.1
11	24.7	2.8
19	23.8	2.8
20	24.2	3.1
21	24.5	2.7
22	24.6	3.4
23	25.1	4.1
24	26.3	2.2
30	25.8	3.2
31	24.1	2.3
32	25.3	1.9
33	24.2	0.3
35	24.2	0.4
38	25.4	1.5
39	25.1	3.2
40	24.4	1.0
41	25.5	2.3
44	25.5	1.5

NO.		NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0.	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. b.	RED. TO 1902.0
				m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1		O. A. 21183	9	5 28.29	-0.12	-22.99	21 5 5.18	-3.97	302 20 26.02	49.52	88.53	-18 43 22.2	21.9	-22.6
2	ι	Capricorni	9	17 14.49	0.12	**22.93**	21 16 51.38	3.96	303 49 0.55	23.08	83.77	17 14 43.0	43.6	23.3
3	γ	Capricorni	9	35 6.76	0.11	**22.93**	21 34 43.68	3.96	303 57 49.40	11.92	83.43	17 5 54.1	54.3	24.1
4	κ	Capricorni	9	37 38.32	0.12	**22.99**	21 37 15.23	3.99	301 45 27.88	51.28	90.76	19 18 23.0	22.2	24.0
5	δ	Capricorni	9	42 5.09	-0.11	**-23.04**	21 41 42.01	-3.96	304 29 45.82	8.28	81.85	-16 33 56.2	56.4	-24.2
		UPDEGRAFF, OBSERVER.			1902 SEPTEMBER 5.				CLAMP WEST.				HAMMOND, ASSISTANT.	
6	μ	Sagittarii	9	8 20.47	-0.14	**-22.67**	18 7 57.70	-3.52	299 59 0.60	23.75	97.52	-21 4 55.0	56.4	-9.3
7	λ	Sagittarii	9	22 21.81	0.16	**22.58**	18 21 59.02	3.70	295 35 49.42	15.62	117.40	25 28 25.7	24.3	8.8
8		Bradley 2333	9	32 59.59	0.15	22.62	18 32 36.82	3.70	297 28 57.85	21.55	108.25	23 35 8.0	9.1	10.5
9		O. A. 18582	9	37 52.18	0.14	22.62	18 37 29.42	3.69	298 33 49.95	14.32	103.50	22 30 11.0	11.5	11.2
10	28	Sagittarii	9	40 52.55	0.14	22.62	18 40 29.79	3.70	298 34 30.50	54.58	103.50	22 29 30.5	31.2	11.5
11		Lal. 35010	9	46 18.20	-0.15	-22.62	18 45 55.43	-3.78	296 18 11.82	36.82	114.00	-24 45 59.5	59.4	-11.2
12		O. A. 19141	9	4 4.41	-0.14	-22.62	19 3 41.65	-3.79	298 32 13.40	37.08	104.00	-22 31 47.7	49.1	13.4
13		Lal. 36016	9	8 43.36	0.13	22.62	19 8 20.61	3.80	298 50 36.35	59.28	102.80	22 13 23.5	25.6	13.8
14	ψ	Sagittarii	9	9 58.64	0.15	**22.69**	19 9 35.87	3.88	295 38 54.58	19.80	117.75	25 25 20.2	21.0	12.9
15	d	Sagittarii	9	12 20.59	-0.12	**22.64**	19 11 57.85	-3.74	301 56 23.92	48.38	90.95	-19 7 24.1	24.6	15.0
16	λ	Ursæ Minoris	5	20 24.84	+7.90	22.62	19 20 10.12	-2.89	50 1 8.40	31.82	67.94	+88 59 58.9	57.4	27.9
17	h	Sagittarii	9	31 11.34	-0.14	**-22.60**	19 30 48.58	-3.95	295 58 27.75	52.35	116.10	-25 5 45.3	45.8	-14.8
18		C. P. D.-21° 7493	9	41 8.73	-0.13	-22.61	19 40 45.99	-3.88	299 18 36.18	59.08	100.90	-21 45 21.7	23.9	-16.4
19		Lal. 38096	9	55 14.83	0.12	22.61	19 54 52.10	3.88	300 56 40.90	4.70	94.52	20 7 10.6	11.9	17.9
20	62	Sagittarii	9	57 4.83	0.15	**22.61**	19 56 42.07	4.07	293 5 47.62	14.22	132.40	27 58 41.7	40.2	16.0
21	4	Capricorni	9	12 42.70	0.12	**22.64**	20 12 19.97	3.96	298 57 33.88	58.48	102.40	22 6 25.6	26.0	18.6
22	β	Capricorni	9	15 56.90	0.10	**22.57**	20 15 34.19	3.84	305 58 28.18	52.38	78.24	15 5 7.3	8.0	20.5
23	π	Capricorni	9	22 9.29	0.11	**22.51**	20 21 46.57	3.91	302 32 6.90	32.15	88.98	-18 31 39.4	39.0	-20.1
24		Lal. 39577	9	29 16.27	-0.11	-22.61	20 28 53.55	3.94	301 20 14.65	37.98	93.26	-19 43 36.0	37.4	-20.3
25		Mayer 871	9	31 12.94	0.12	22.61	20 30 50.21	3.96	300 8 51.00	12.88	97.77	20 55 4.2	7.1	20.2
26	υ	Capricorni	9	34 54.92	0.11	**22.56**	20 34 32.20	3.93	302 35 5.42	31.32	88.94	18 28 41.0	39.8	21.0
27		B. D.-19° 5925	9	42 14.79	0.11	22.61	20 41 52.07	3.95	302 5 23.90	49.58	90.70	18 58 24.4	23.4	21.3
28		Mayer 881	9	44 13.68	0.11	22.61	20 43 50.96	3.94	302 40 17.95	41.48	88.72	18 23 28.6	29.5	21.5
29		Lal. 40311	9	48 23.82	0.11	-22.61	20 48 1.10	-3.96	301 35 11.38	36.45	92.53	-19 28 38.9	38.4	-21.5
30	20	Capricorni	9	54 28.77	-0.11	-22.60	20 54 6.06	-3.97	301 39 18.70	41.62	92.36	-19 24 31.6	33.1	-21.8
31		Piazzi XX, 462	9	2 23.38	0.11	22.60	21 2 0.67	3.98	301 35 24.45	48.82	92.64	19 28 26.3	26.3	22.2
32		O. A. 21183	9	5 27.85	0.10	22.60	21 5 5.15	3.97	302 20 25.60	48.82	90.03	18 43 22.6	23.7	22.6
33	ι	Capricorni	9	17 14.06	0.10	**22.53**	21 16 51.36	3.95	303 49 0.25	23.38	85.21	17 14 43.5	44.4	23.3
34	γ	Capricorni	9	35 6.38	0.10	**22.57**	21 34 43.68	3.95	303 57 50.08	13.48	84.86	17 5 53.9	54.2	24.1
35	κ	Capricorni	9	37 37.97	0.10	**22.66**	21 37 15.27	3.99	301 45 28.20	53.02	92.32	19 18 23.3	22.2	24.0
36	δ	Capricorni	9	42 4.66	-0.09	**-22.63**	21 41 41.97	3.96	304 29 47.00	10.20	83.25	-16 33 55.6	55.9	-24.2
		HAMMOND, OBSERVER.			1902 SEPTEMBER 18.				CLAMP WEST.				MORGAN, ASSISTANT.	
37	λ	Aquarii	9	47 58.56	-0.06	**-24.46**	22 47 34.04	-3.90	312 57 40.80	6.42	61.14	-8 5 38.0	37.7	-26.6
38	β	Piscium	9	59 21.79	0.02	**24.44**	22 58 57.31	3.93	324 20 58.90	23.75	40.88	-3 17 60.2	59.9	27.2
39	φ	Aquarii	9	9 43.27	0.06	**24.47**	23 9 18.75	3.90	314 29 3.52	28.90	58.01	6 34 12.3	12.2	26.4
40	96	Aquarii	9	14 47.57	0.05	24.46	23 14 23.06	3.91	315 24 4.70	30.18	56.18	5 39 9.3	9.1	26.5
41		Schjellerup 9616	9	16 39.01	0.06	24.46	23 16 14.49	3.90	313 30 7.58	33.52	60.03	7 33 10.3	9.7	26.4
42		Lal. 45877	9	21 58.73	-0.06	-24.46	23 21 34.21	-3.90	313 54 58.10	23.82	59.18	-7 8 19.0	18.6	-26.4
43		Mayer 997	9	24 56.53	-0.05	-24.46	23 24 32.02	-3.91	315 59 40.08	4.68	55.07	-5 3 33.0	33.6	-26.4
44		Lal. 46137	9	28 54.24	0.05	24.46	23 28 29.73	3.91	316 7 7.38	32.52	54.83	4 56 5.4	5.5	26.4
45	λ	Piscium	9	37 31.18	0.03	**24.46**	23 37 6.69	3.94	322 17 55.78	20.70	44.10	+1 14 53.6	53.3	26.1
46	25	Piscium	9	48 32.05	0.03	**24.48**	23 48 7.56	3.95	322 36 12.48	38.70	43.63	-1 33 10.6	11.8	25.9
47	27	Piscium	9	54 7.78	0.05	**24.47**	23 53 43.27	3.90	316 57 38.48	3.02	53.30	-4 5 33.0	33.7	25.9
48	30	Piscium	9	57 24.45	-0.06	**-24.45**	23 56 59.93	-3.88	314 30 9.80	34.85	58.06	-6 33 6.5	6.6	-25.8

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
4 21 40	75.83	18.0	16.7
5 18 7	76.24	19.4	17.6
18 43	.....	....	17.0
19 15	76.28	18.0	15.7
20 0	.....	....	16.0
20 24	76.30	17.0	15.6
21 4	.....	....	14.5
21 40	76.32	15.7	13.7
18 22 46	76.07	15.1	14.5
23 27	.....	....	14.2
0 0	76.07	14.0	13.8

Bisections are made at II and V, except as noted below.

16. Bisections at c_1, c_5.
28. Bisections at III, V.

Notes.

1–5. Seeing 2–3.
6–36. Seeing 3; improving to 4.
37–48. Seeing 4.
45. Circle A read on 18′ division.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1– 5, from stars...		*	*
6–15, 17–36, from stars...		*	*
16, from nadir..	+2	28.08	3.23
37–48, from stars...		*	*

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
2	24.1	1.7
3	24.8	2.4
4	24.7	1.3
5	25.5	3.2
6	26.3	3.2
7	27.6	1.5
14	28.1	3.0
15	27.9	3.5
17	27.7	3.2
20	28.7	2.2
21	26.0	1.5
22	27.8	3.6
23	28.1	2.9
26	27.9	2.1
33	25.9	2.8
34	25.6	2.3
35	25.9	1.2
36	25.8	2.6
37	27.7	2.1
38	26.7	1.8
39	27.2	1.9
45	25.8	0.9
46	26.8	0.5
47	27.0	2.5
48	27.7	2.7

1902 SEPTEMBER 22. CLAMP WEST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	λ Aquarii	9	47 59.99	−0.08	**−25.88**	22 47 34.06	− 3.89	312 57 42.48	6.35	59.94	− 8 5 37.1	37.9	−26.5
2	β Piscium	9	59 23.16	0.03	**25.81**	22 58 57.26	3.92	324 20 59.82	24.28	40.07	+ 3 17 59.9	59.9	27.5
3	φ Aquarii	9	9 44.72	0.07	**25.91**	23 9 18.78	3.90	314 29 4.12	29.10	56.87	− 6 34 12.6	12.1	26.4
4	96 Aquarii	9	14 49.03	0.07	25.87	23 14 23.09	3.91	315 24 5.18	30.18	55.09	5 39 9.8	9.2	26.5
5	Schjellerup 9616	9	16 40.44	0.08	25.87	23 16 14.49	3.91	313 30 8.75	33.48	58.86	7 33 10.0	9.7	26.4
6	Lal. 45877	9	22 0.23	−0.08	−25.88	23 21 34.27	− 3.91	313 54 58.18	23.30	58.02	− 7 8 19.7	19.0	−26.4
7	Mayer 997	9	24 57.99	−0.07	−25.88	23 24 32.04	− 3.92	315 59 40.08	4.45	53.99	− 5 3 33.8	33.8	−26.4
8	Lal. 46137	9	28 55.72	0.06	25.88	23 28 29.78	3.92	316 7 7.90	32.35	53.75	− 4 56 5.8	5.7	26.4
9	λ Piscium	9	37 32.61	0.04	**25.87**	23 37 6.68	3.95	322 17 56.20	20.52	43.22	+ 1 14 53.0	53.0	26.3
10	25 Piscium	9	48 33.47	0.04	**25.88**	23 48 7.54	3.96	322 36 14.10	38.52	42.77	+ 1 33 11.2	11.4	26.2
11	27 Piscium	9	54 9.23	0.06	**25.89**	23 53 43.28	3.92	316 57 39.40	3.50	52.24	− 4 5 32.9	33.0	25.9
12	30 Piscium	9	57 25.95	0.07	**25.92**	23 56 59.99	− 3.90	314 30 10.90	35.00	56.91	− 6 33 6.1	6.2	−25.7
13	6 B. Ursæ Minoris S. P.	9	13 58.40	−6.21	−25.90	12 13 26.29	+57.25	52 46 46.40	11.35	73.84	+88 14 19.8	18.5	+15.4

1902 SEPTEMBER 23. CLAMP WEST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

14	λ Aquarii	9	48 0.35	−0.08	**−26.24**	22 47 34.03	− 3.89	312 57 41.15	5.65	59.76	− 8 5 37.6	37.6	−26.5
15	β Piscium	9	59 23.58	0.03	**26.23**	22 58 57.30	3.92	324 20 58.75	23.20	39.95	+ 3 17 59.7	59.7	27.5
16	φ Aquarii	9	9 45.10	0.07	**26.29**	23 9 18.77	3.90	314 29 3.75	28.00	56.69	− 6 34 12.1	12.2	26.4
17	96 Aquarii	9	14 49.43	0.07	26.26	23 14 23.10	3.91	315 24 3.85	29.18	54.92	5 39 10.2	9.2	26.6
18	Lal. 45698	9	16 8.00	0.07	26.26	23 15 41.67	3.91	314 37	31.30	56.43	6 26	8.6	26.5
19	Mayer 997	9	24 58.43	−0.06	−26.27	23 24 32.10	− 3.92	315 59 39.58	4.18	53.82	− 5 3 33.6	33.1	−26.5
20	Lal. 46137	9	28 56.09	−0.06	−26.27	23 28 29.76	3.92	316 7 7.60	31.40	53.58	− 4 56 5.4	5.7	−26.4
21	λ Piscium	9	37 33.05	0.04	**26.30**	23 37 6.73	3.96	322 17 55.82	20.28	43.08	+ 1 14 53.2	53.7	26.4
22	25 Piscium	9	48 33.88	0.04	**26.28**	23 48 7.55	3.97	322 36 13.52	38.02	42.62	+ 1 33 11.3	11.9	26.2
23	27 Piscium	9	54 9.65	0.06	**26.30**	23 53 43.30	3.93	316 57 38.78	1.98	52.05	− 4 5 32.8	33.6	25.9
24	30 Piscium	9	57 26.32	0.07	**26.28**	23 56 59.95	− 3.91	314 30 10.08	34.02	56.70	− 6 33 6.3	6.2	−25.7
25	6 B. Ursæ Minoris S. P.	9	13 59.28	−6.47	−26.31	12 13 26.50	+57.35	52 46 46.80	11.30	73.52	+88 14 19.0	17.8	+15.8

1902 SEPTEMBER 29. CLAMP WEST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

26	λ Aquarii	9	48 6.21	−0.08	**−32.12**	22 47 34.03	− 3.87	312 57 41.45	6.88	59.37	− 8 5 37.6	37.3	−26.3
27	β Piscium	9	59 29.42	0.02	**32.09**	22 58 57.30	3.91	324 20 59.75	24.80	39.67	+ 3 18 0.2	0.1	27.8
28	φ Aquarii	9	9 50.89	0.08	**32.08**	23 9 18.71	3.89	314 29 3.90	28.75	56.29	− 6 34 12.5	12.7	26.3
29	Lal. 45698	9	16 13.90	0.07	32.10	23 15 41.73	3.91	314 37 7.15	32.85	56.04	6 26 9.1	8.5	26.4
30	B. D. −5° 5985	9	20 20.90	0.07	32.10	23 19 48.73	3.91	315 28 37.45	3.12	54.42	5 34 37.2	36.6	26.5
31	Lal. 45880	9	22 11.82	−0.07	−32.10	23 21 39.65	− 3.92	315 17 23.60	49.05	54.79	− 5 45 51.5	51.0	−26.4
32	Lal. 46034	9	26 34.06	−0.08	−32.10	23 26 1.88	− 3.92	314 14 3.35	28.30	56.88	− 6 49 13.9	14.0	−26.3
33	λ Piscium	9	37 38.85	0.03	**32.10**	23 37 6.72	3.97	322 17 56.95	22.40	42.88	+ 1 14 53.4	53.9	26.6
34	25 Piscium	9	48 39.73	0.03	**32.13**	23 48 7.60	3.98	322 36 14.62	40.88	42.46	+ 1 33 11.3	12.6	26.5
35	27 Piscium	9	54 15.47	0.06	**32.11**	23 53 43.31	3.94	316 57 40.10	4.52	51.88	− 4 5 32.8	33.3	25.9
36	30 Piscium	9	57 32.15	0.08	**32.08**	23 56 59.97	− 3.93	314 30 11.50	34.88	56.53	− 6 33 6.0	7.5	−25.7
37	6 B. Ursæ Minoris S. P.	9	14 6.12	−8.52	32.10	12 13 25.50	+57.13	52 46 50.32	16.10	73.38	+88 14 16.8	15.2	+18.1

1902 OCTOBER 1. CLAMP WEST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

38	λ Aquarii	9	48 5.86	−0.07	**−31.79**	22 47 33.99	− 3.86	312 57 41.88	7.65	60.05	− 8 5 37.4	37.4	−26.3
39	β Piscium	9	59 29.08	−0.02	**−31.76**	22 58 57.26	− 3.90	324 20 59.80	24.95	40.16	+ 3 17 60.3	59.9	−27.9

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
22 22 43	75.72	19.5	18.8
23 18	.....	....	18.5
23 42	.....	....	18.3
0 8	75.70	17.9	18.0
23 22 43	75.64	20.5	19.3
23 18	.....	....	19.0
23 42	.....	....	18.8
0 12	75.63	19.2	18.8
29 22 44	75.37	20.4	20.0
23 12	.....	....	20.1
23 43	.....	....	19.0
0 10	75.36	19.3	18.4
1 22 43	75.50	18.5	17.4

Bisections are made at II and V, except as noted below.

13, 25, 37.	Bisections at c_5, c_1.
18.	Bisection at V.

Notes.

1–13.	Seeing 2.
9, 21, 33.	Division read on Circle A doubtful.
14–25.	Seeing 3; thick haze.
18.	Microscopes hurried.
19.	Faint.
25.	Unsteady.
26–36, 38, 39.	Seeing 2.
37.	Seeing poor.

Adopted Zenith Point Corrections.

	A.		B.
	′	″	″
1–12, from stars		*	0.7
13, from nadir......	+2	24.60	1.02
14–24, from stars		*	1.5
25, from nadir......	2	25.35	2.11
26–36, from stars		*	*
37, from nadir......	2	24.20	0.03
38, 39, from stars	+2	25.7	*

* Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
1	24.7	0.9
2	25.3	0.8
3	25.5	0.6
9	24.7	0.4
10	24.6	0.2
11	25.0	0.9
12	25.4	1.3
14	25.9	1.4
15	26.2	1.8
16	25.7	1.5
21	25.1	0.6
22	25.0	0.5
23	25.4	2.3
24	26.0	2.1
26	25.0	59.6
27	25.2	0.2
28	25.1	0.2
33	23.9	58.5
34	24.0	57.8
35	24.0	59.6
36	24.4	1.0
38	25.2	59.5
39	25.8	0.6

No.	Name.	Thds.	Mean Thread.	c_0' sec δ + n tan δ.	ΔT+m.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	φ Aquarii	9	9 50.64	− 0.06	**−31.85**	23 9 18.78	− 3.89	314 29 3.92	29.38	57.02	− 6 34 12.4	12.4	−26.3
2	Lal. 45680	9	15 46.82	0.05	31.80	23 15 14.97	3.91	316 36 29.32	55.10	52.95	4 26 42.9	42.6	26.6
3	B. D.−5° 5985	9	20 20.59	0.06	31.80	23 19 48.73	3.91	315 28 37.65	2.95	55.11	5 34 36.7	37.0	26.4
4	Lal. 45880	9	22 11.50	0.06	31.80	23 21 39.64	3.91	315 17 23.25	48.45	55.48	5 45 51.5	51.8	26.4
5	Lal. 46034	9	26 33.76	0.06	31.80	23 26 1.90	3.91	314 14 2.70	28.15	57.57	− 6 49 14.1	14.2	26.2
6	λ Piscium	9	37 38.60	− 0.02	**−31.86**	23 37 6.78	− 3.97	322 17 56.20	21.70	43.37	+ 1 14 53.5	53.6	−26.7
7	25 Piscium	9	48 39.38	− 0.02	**−31.78**	23 48 7.56	3.99	322 36 13.90	39.80	42.90	+ 1 33 11.7	12.3	− 26.6
8	27 Piscium	9	54 15.18	0.05	**31.82**	23 53 43.33	3.95	316 57 38.22	3.35	52.40	− 4 5 33.5	33.6	25.9
9	30 Piscium	9	57 31.82	0.06	**31.77**	23 56 59.96	− 3.93	314 30 10.08	35.40	57.10	− 6 33 6.3	6.3	−25.6
10	6 B. Ursæ Minoris s. p.	9	14 5.89	− 8.06	−31.80	12 13 26.03	+57.11	52 46 49.15	15.08	74.04	+88 14 15.8	14.7	+18.8

1902 OCTOBER 2. CLAMP WEST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

No.	Name.	Thds.	Mean Thread.	c_0' sec δ + n tan δ.	ΔT+m.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
11	λ Aquarii	9	48 5.62	0.08	**−31.55**	22 47 33.99	− 3.85	312 57 42.02	8.22	60.88	− 8 5 37.7	37.6	−26.3
12	β Piscium	9	59 28.82	0.02	**31.50**	22 58 57.25	3.90	324 20 59.25	26.02	40.71	+ 3 17 59.6	60.3	28.0
13	φ Aquarii	9	9 50.41	0.07	**31.61**	23 9 18.78	3.89	314 29 4.92	30.00	57.78	− 6 34 11.7	12.8	26.3
14	Lal. 45680	9	15 46.58	0.06	31.56	23 15 14.96	3.90	316 36 29.58	55.92	53.65	4 26 42.9	42.7	26.6
15	B. D.−5° 5985	9	20 20.39	0.07	31.56	23 19 48.76	3.91	315 28 37.20	3.02	55.83	5 34 37.5	37.8	26.4
16	Lal. 45880	9	22 11.27	− 0.07	−31.56	23 21 39.64	− 3.91	315 17 23.55	49.52	56.20	− 5 45 51.5	51.7	−26.3
17	Lal. 46034	9	26 33.51	− 0.07	−31.56	23 26 1.88	− 3.91	314 14 3.08	28.15	58.30	− 6 49 14.1	15.1	−26.2
18	λ Piscium	9	37 38.32	0.03	**31.57**	23 37 6.73	3.97	322 17 55.32	22.35	43.90	+ 1 14 52.5	53.4	26.7
19	25 Piscium	9	48 39.18	0.03	**31.57**	23 48 7.58	3.99	322 36 14.60	40.62	43.43	+ 1 33 12.3	12.2	26.6
20	27 Piscium	9	54 14.92	0.06	**31.55**	23 53 43.29	3.95	316 57 39.20	4.88	53.05	− 4 5 32.7	33.2	25.9
21	30 Piscium	9	57 31.64	0.07	**31.58**	23 57 0.00	− 3.93	314 30 10.80	36.62	57.81	− 6 33 5.9	6.2	−25.6
22	6 B. Ursæ Minoris s. p.	7	14 5.76	− 8.09	−31.57	12 13 26.10	+57.12	52 46 47.90	14.58	75.02	+88 14 15.7	14.5	+19.2

1902 OCTOBER 6. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

No.	Name.	Thds.	Mean Thread.	c_0' sec δ + n tan δ.	ΔT+m.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
23	λ Aquarii	9	48 4.54	− 0.02	**−30.55**	22 47 33.96	− 3.83	46 57 15.38	42.35	60.77	− 8 5 39.0	38.2	−26.1
24	β Piscium	9	59 27.77	+ 0.05	**30.54**	22 58 57.26	3.88	35 33 55.50	23.02	40.62	+ 3 18 1.2	1.4	28.0
25	φ Aquarii	9	9 49.31	− 0.01	**30.59**	23 9 18.74	3.87	45 25 52.22	20.65	57.62	− 6 34 12.3	13.2	26.1
26	96 Aquarii	9	14 53.61	0.00	30.56	23 14 23.05	3.89	44 30 51.00	18.30	55.82	5 39 9.3	8.9	26.4
27	Schjellerup 9616	9	16 45.04	− 0.02	30.56	23 16 14.46	3.88	46 24 47.22	15.52	59.65	7 33 9.2	10.0	26.0
28	B. D.−5° 5985	9	20 19.28	0.00	−30.56	23 19 48.72	− 3.90	44 26 19.80	47.28	55.69	− 5 34 37.9	37.7	−26.3
29	Lal. 45880	9	22 10.18	0.00	−30.56	23 21 39.62	− 3.90	44 37 33.45	0.90	56.07	− 5 45 51.8	51.7	−26.3
30	Lal. 46034	9	26 32.40	− 0.01	30.56	23 26 1.83	3.90	45 40 54.00	21.98	58.18	6 49 14.4	14.7	26.0
31	Lal. 46137	9	29 0.28	0.00	30.56	23 28 29.72	3.91	43 47 49.30	17.08	54.49	− 4 56 6.0	6.2	26.3
32	λ Piscium	9	37 37.19	+ 0.04	**30.52**	23 37 6.67	3.96	37 37 1.30	28.08	43.81	+ 1 14 52.8	53.6	26.8
33	25 Piscium	9	48 38.13	0.04	**30.59**	23 48 7.61	3.99	37 18 44.25	11.00	43.35	+ 1 33 10.5	11.3	26.6
34	27 Piscium	9	54 13.87	+ 0.01	**−30.58**	23 53 43.32	− 3.94	42 57 17.55	45.68	52.95	− 4 5 32.4	32.9	−25.8
35	30 Piscium	9	57 30.54	− 0.01	**−30.54**	23 56 59.97	− 3.93	45 24 45.72	14.45	57.70	− 6 33 5.2	6.3	−25.4
36	6 B. Ursæ Minoris s. p.	7	14 8.86	−12.19	−30.56	12 13 26.11	+57.09	307 8 8.05	33.58	74.87	+88 14 15.0	13.4	+20.7

1902 NOVEMBER 13. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

No.	Name.	Thds.	Mean Thread.	c_0' sec δ + n tan δ.	ΔT+m.	Apparent R. A.	Red. to 1902.0	Circle Reading. A.	Circle Reading. B.	Refr.	Apparent Decl. A.	Apparent Decl. B.	Red. to 1902.0
37	λ Aquarii	8	47 34.26	+ 0.04	**− 0.73**	22 47 33.57	− 3.43	46 57 16.15	44.85	60.72	− 8 5 40.3	40.1	−23.9
38	β Piscium	9	58 57.55	0.08	**0.72**	22 58 56.89	3.51	35 33 55.75	24.22	40.61	+ 3 18 0.0	0.6	27.4
39	φ Aquarii	9	9 19.08	0.05	**0.76**	23 9 18.38	3.53	45 25 53.52	23.25	57.62	− 6 34 14.8	15.6	24.0
40	Lal. 45680	9	15 15.32	0.05	0.75	23 15 14.62	3.57	43 18 27.18	57.20	53.53	4 26 44.4	45.4	24.6
41	B. D.−5° 5985	9	19 49.07	0.05	0.76	23 19 48.36	3.58	44 26 19.92	48.72	55.71	5 34 39.4	39.2	24.2
42	Lal. 45877	9	21 34.69	+ 0.04	− 0.76	23 21 33.97	− 3.58	45 59 59.40	27.45	58.83	− 7 8 22.0	21.1	−23.7

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
1 23 6	.....	....	17.1
23 39	.....	....	16.7
0 11	75.56	17.5	16.6
2 22 45	75.95	16.6	15.2
23 12	.....	....	14.9
23 44	75.94	16.0	14.8
0 10	75.95	15.7	14.4
6 22 45	75.39	14.3	13.7
23 8	.....	....	13.7
23 35	.....	....	13.5
0 9	75.41	13.8	13.1
13 22 46	76.25	18.4	17.0
23 17	.....	....	16.6

Bisections are made at II and V, except as noted below.

10, 36. Bisections at c_5, c_1.
22. Bisections at c_5, c_2.

Notes.

1–10. Seeing 2.
6, 18. Division read on Circle A doubtful.
10. Unsteady.
11–22. Seeing 3–4.
23–36. Seeing 3.
37–42. Seeing 4.

Adopted Zenith Point Corrections.

	′	A. ″	B. ″
1– 9, from stars	+2	25.7	*
10, from nadir	2	25.72	0.86
11–21, from stars	2	26.1	0.0
22, from nadir	2	26.08	0.86
23–35, from stars		*	*
36, from nadir	+2	35.15	8.00
37–42, from stars		*	*

* Interpolated from diagram.

Z. P.Corr. from Stars.

No.	A.	B.
	″	″
1	25.8	0.3
6	25.3	59.8
7	25.3	59.4
8	26.4	1.2
9	26.3	1.0
11	25.9	59.7
12	27.0	0.2
13	25.5	0.5
18	26.7	59.7
19	25.1	59.1
20	26.0	0.4
21	26.3	0.5
23	35.0	8.0
24	36.4	8.9
25	35.7	7.2
32	34.7	7.9
33	34.1	7.3
34	35.4	7.3
35	35.5	6.8
37	36.5	7.7
38	36.7	8.3
39	36.5	6.7

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	Lal. 46034	9	26 2.24	+0.05	−0.76	23 26 1.53	−3.60	45 40 54.48	23.60	58.20	−6 49 16.4	16.7	−23.7
2	Lal. 46137	8	28 30.17	0.05	0.76	23 28 29.46	3.63	43 47 48.92	18.70	54.51	−4 56 7.2	8.1	24.2
3	λ Piscium	9	37 7.17	0.07	**0.79**	23 37 6.47	3.70	37 36 59.80	27.98	43.85	+1 14 52.5	53.2	25.8
4	25 Piscium	9	48 8.08	0.08	**0.80**	23 48 7.38	3.77	37 18 42.42	10.50	43.41	+1 33 10.2	11.0	25.6
5	27 Piscium	9	53 43.77	0.06	**0.74**	23 53 43.05	3.73	42 57 18.02	47.42	53.04	−4 5 35.1	35.5	23.9
6	30 Piscium	9	57 0.54	+0.05	**−0.80**	23 56 59.80	−3.73	45 24 46.28	16.32	57.80	−6 33 8.1	9.3	23.0

1902 NOVEMBER 20. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
7	λ Aquarii	9	47 34.75	+0.01	**−1.28**	22 47 33.49	−3.34	46 57 15.38	43.18	62.03	−8 5 41.6	40.3	−23.4
8	β Piscium	9	58 58.03	0.05	**1.25**	22 58 56.81	3.43	35 33 54.18	23.28	41.49	+3 18 0.1	0.0	27.1
9	φ Aquarii	9	9 19.55	0.02	**1.29**	23 9 18.30	3.44	45 25 52.00	21.75	58.88	−6 34 15.0	16.0	23.5
10	96 Aquarii	9	14 23.87	0.02	1.27	23 14 22.62	3.47	44 30 49.58	18.18	57.03	5 39 10.8	10.6	23.9
11	Schjellerup 9616	9	16 15.29	0.01	1.27	23 16 14.03	3.47	46 24 47.90	16.15	60.94	7 33 13.0	12.6	23.3
12	B. D. −5° 5985	8	19 49.57	+0.02	−1.27	23 19 48.32	−3.50	44 26 19.80	47.62	56.90	−5 34 40.9	40.0	−23.9
13	Lal. 45880	9	21 40.49	+0.02	−1.27	23 21 39.24	−3.51	44 37 33.68	1.72	57.27	−5 45 55.1	54.5	−23.8
14	Lal. 46034	9	26 2.73	0.01	1.27	23 26 1.47	3.52	45 40 53.22	22.15	59.43	6 49 16.8	17.2	23.3
15	Lal. 46137	9	28 30.63	0.02	1.27	23 28 29.38	3.55	43 47 48.78	17.10	55.65	−4 56 8.6	8.3	23.9
16	λ Piscium	9	37 7.59	0.05	**1.27**	23 37 6.37	3.62	37 36 58.80	26.90	44.76	+1 14 52.2	52.6	25.5
17	25 Piscium	9	48 8.49	0.05	**1.26**	23 48 7.27	3.69	37 18 41.62	9.35	44.29	+1 33 9.9	10.5	25.3
18	27 Piscium	9	53 44.30	0.02	**1.29**	23 53 43.05	3.67	42 57 16.95	45.75	54.10	−4 5 35.2	35.7	23.3
19	30 Piscium	9	57 0.98	+0.02	**−1.28**	23 56 59.73	−3.66	45 24 46.08	14.85	58.95	−6 33 9.2	9.8	−22.4

1902 NOVEMBER 21. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
20	λ Aquarii	9	47 34.72	+0.05	**−1.31**	22 47 33.49	−3.32	46 57 16.98	45.68	60.86	−8 5 41.5	41.3	−23.4
21	β Piscium	9	58 57.95	0.09	**1.23**	22 58 56.76	3.41	35 33 55.50	23.92	40.68	3 18 0.1	0.5	27.1
22	φ Aquarii	9	9 19.51	0.06	**1.30**	23 9 18.29	3.43	45 25 53.48	22.98	57.73	−6 34 15.0	15.6	23.4
23	Lal. 45698	6	15 42.51	0.06	1.29	23 15 41.28	3.46	45 17 50.88	.....	57.46	6 26 12.1	....	23.6
24	Lal. 45877	9	21 35.09	0.06	1.29	23 21 33.86	3.49	46 0 0.62	29.55	58.91	7 8 23.4	23.4	23.2
25	Mayer 997	9	24 32.87	+0.06	−1.29	23 24 31.64	−3.51	43 55 17.88	47.42	54.80	−5 3 36.6	37.2	−23.8
26	λ Piscium	9	37 7.58	+0.08	**−1.30**	23 37 6.36	−3.61	37 37 0.95	28.95	43.87	+1 14 51.3	52.2	−25.4
27	25 Piscium	9	48 8.48	0.08	**1.29**	23 48 7.26	3.68	37 18 42.88	11.22	43.42	+1 33 9.7	10.3	25.3
28	27 Piscium	9	53 44.22	0.06	**1.26**	23 53 42.98	3.66	42 57 18.25	47.38	53.06	−4 5 35.3	35.5	23.3
29	30 Piscium	9	57 1.01	+0.06	**−1.36**	23 56 59.77	−3.65	45 24 46.42	16.72	57.82	−6 33 8.2	9.6	−22.3

1902 NOVEMBER 28. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	c_0' SEC δ + n TAN δ.	$\Delta T+m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
30	λ Aquarii	9	47 34.33	+0.03	**−0.99**	22 47 33.38	−3.23	46 57 13.35	41.95	64.17	−8 5 41.8	41.6	−22.9
31	β Piscium	9	58 57.60	0.07	**0.94**	22 58 56.69	3.33	35 33 53.80	22.12	42.90	+3 17 59.0	59.7	26.7
32	φ Aquarii	9	9 19.15	0.04	**1.01**	23 9 18.21	3.34	45 25 49.68	20.12	60.90	−6 34 14.9	16.1	22.8
33	96 Aquarii	9	14 23.46	0.04	0.97	23 14 22.53	3.38	44 30 48.98	17.35	58.99	5 39 12.2	11.3	23.2
34	Lal. 45698	9	15 42.08	0.04	0.97	23 15 41.15	3.38	45 17 45.78	15.80	60.62	6 26 10.7	11.4	22.9
35	B. D. −5° 5985	9	19 49.07	+0.04	−0.97	23 19 48.14	−3.40	44 26 17.30	47.20	58.87	−5 34 40.4	41.0	−23.1
36	Lal. 45880	9	21 40.06	+0.04	−0.97	23 21 39.13	−3.41	44 37 30.88	0.50	59.25	−5 45 54.4	54.6	−23.0
37	Mayer 997	9	24 32.47	0.04	0.97	23 24 31.54	3.43	43 55 14.52	45.25	57.84	−5 3 36.6	37.9	23.2
38	λ Piscium	9	37 7.18	0.06	**0.96**	23 37 6.27	3.53	37 36 57.82	27.70	46.34	+1 14 51.5	51.4	25.0
39	25 Piscium	9	48 8.14	0.06	**1.00**	23 48 7.24	3.61	37 18 40.22	9.25	45.87	+1 33 9.6	10.4	24.9
40	27 Piscium	9	53 43.87	0.04	**0.96**	23 53 42.95	3.59	42 57 16.15	45.40	56.03	−4 5 36.5	35.8	22.7
41	30 Piscium	9	57 0.53	+0.04	**−0.93**	23 56 59.61	−3.58	45 24 43.92	15.38	61.05	−6 33 9.2	10.7	−21.7

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
13 23 50	.....	....	15.8
0 10	76.24	16.7	15.4
20 22 42	76.23	12.5	11.2
23 11	.....	....	10.8
23 40	.....	....	10.5
0 10	76.20	11.2	10.0
21 22 44	75.82	16.0	15.0
23 13	.....	....	14.7
23 39	.....	....	14.5
0 0	75.80	15.0	14.0
28 22 45	76.24	3.5	2.2
23 12	.....	....	2.0
23 38	76.26	2.5	1.5
0 6	76.32	2.3	1.2

Bisections are made at II and V, except as noted below.

23. Bisection at II.
34. Bisections at III, V.

Notes.

1–6.	Seeing 4.
7–19.	Seeing 3.
12.	Very faint.
19.	First bisection doubtful.
20–29.	Seeing 2–3.
21.	Unsteady.
23.	Clouds; faint.
24.	Circle A read on 58′ division.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
3	37.2	9.0
4	36.9	8.8
5	36.8	7.4
6	37.3	7.2
7	36.4	8.6
8	37.7	8.6
9	37.3	7.5
16	37.5	9.4
17	37.1	9.4
18	37.4	8.6
19	36.9	8.1
20	36.0	7.3
21	37.2	8.8
22	37.0	7.5
26	36.4	8.4
27	36.7	8.4
28	37.1	8.0
29	37.8	7.5
30	36.8	8.2
31	37.1	8.8
32	38.2	7.8
38	37.4	7.6
39	37.3	8.3
40	36.8	7.6
41	37.7	6.2

Adopted Zenith Point Corrections.

	A.	B.
	′ ″	″
1– 6, from stars	*	*
7–19, from stars	+2 37.2	*
20–29, from stars	*	*
30–41, from stars	+2 37.3	*

* Interpolated from diagram.

1902 DECEMBER 1. CLAMP EAST.

HAMMOND, OBSERVER. MORGAN, ASSISTANT.

NO.	NAME.	THDS.	MEAN THREAD.	$c_0' \sec \delta + n \tan \delta$.	$\Delta T + m$.	APPARENT R. A.	RED. TO 1902.0	CIRCLE READING. A.	CIRCLE READING. B.	REFR.	APPARENT DECL. A.	APPARENT DECL. B.	RED. TO 1902.0
			m s	s	s	h m s	s	° ′ ″	″	″	° ′ ″	″	″
1	λ Aquarii	9	47 33.35	−0.01	**0.00**	22 47 33.38	− 3.20	46 57 15.62	45.28	63.15	−8 5 42.1	41.7	−22.6
2	β Piscium	9	58 56.59	+0.02	**+0.08**	22 58 56.65	3.29	35 33 54.30	24.75	42.25	+3 17 60.0	59.6	26.5
3	φ Aquarii	9	9 18.11	−0.01	**0.04**	23 9 18.14	3.30	45 25 52.95	23.15	59.98	−6 34 16.3	16.5	22.6
4	Lal. 45680	9	15 14.32	0.00	0.04	23 15 14.36	3.35	43 18 26.30	56.98	55.72	4 26 45.4	46.1	23.5
5	Lal. 45877	9	21 33.72	−0.01	0.03	23 21 33.74	3.37	45 59 59.32	27.68	61.22	7 8 23.9	22.4	22.4
6	Mayer 997	9	24 31.48	0.00	+0.03	23 24 31.51	− 3.39	43 55 16.12	47.12	56.96	−5 3 36.4	37.6	−23.0
7	λ Piscium	9	37 6.20	+0.02	**+0.03**	23 37 6.25	− 3.50	37 36 59.85	28.95	45.62	+1 14 51.1	51.9	−24.7
8	25 Piscium	9	48 7.08	+0.02	**+0.06**	23 48 7.13	3.57	37 18 42.35	11.45	45.12	+1 33 9.1	9.8	24.6
9	27 Piscium	9	53 42.92	0.00	**−0.01**	23 53 42.95	3.55	42 57 17.62	47.68	55.09	−4 5 36.1	36.4	22.5
10	30 Piscium	9	56 59.58	−0.01	**+0.03**	23 56 59.60	− 3.54	45 24 46.62	17.38	60.02	−6 33 10.0	11.0	−21.5

Time.	Barom.	Att. Ther.	Ext. Ther.
d h m	cm.	°	°
1 22 42	75.64	5.2	4.4
23 12	.....	...	3.8
23 40	75.66	4.5	3.4
0 8	75.66	4.3	3.7

Bisections are made at II and V, except as noted below.

Notes.

1–10. Seeing 4.

Adopted Zenith Point Corrections.

	′ A. ″	B. ″
1–10, from stars	+2 36.4	*

*Interpolated from diagram.

Z. P. Corr. from Stars.

No.	A.	B.
	″	″
1	35.9	6.2
2	37.4	7.0
3	36.1	5.9
7	36.4	7.3
8	36.2	7.1
9	36.5	6.4
10	36.2	5.4

RESULTS

OF

OBSERVATIONS.

C 85

INDIVIDUAL RESULTS

OF

OBSERVATIONS OF STARS IN LIST I.

REDUCED TO 1902.0.

[Declinations Reduced with Zenith Point Corrections from Stars.]

ζ Tauri

							Circle	A.	B.
1902		Cl.	h	m	s	°	′	″	″
Feb.	6	W.	5	31	47.24	+21	4	58.9	59.4
	7	W.			47.27			58.7	59.2
	8	W.			47.25			59.1	59.1
	9	W.			47.24			59.1	58.5
	13	W.			47.24			58.9	59.4
	14	W.			47.24			59.4	59.5
	23	E.			47.27			58.3	58.7
	26	E.			47.25			58.2	58.8
Feb.	28	E.			47.28			58.6	58.6
Mar.	2	E.			47.23			58.2	58.7
	3	E.			47.22			58.6	58.2
Mar.	6	E.			47.25			58.1	58.4
Means		W.	5	31	47.247	+21	4	59.02	59.18
		E.			47.250			58.33	58.57

130 Tauri

1902		Cl.	h	m	s	°	′	″	″
Feb.	6	W.	5	41	43.34	+17	41	32.6	32.4
	7	W.			43.33			32.5	32.2
	8	W.			43.34			32.2	32.6
	9	W.			43.31			33.4	32.8
	13	W.			43.32			33.4	32.6
	14	W.			43.36			33.9	33.0
	23	E.			43.38			33.5	33.9
	26	E.			43.34			33.9	34.3
Feb.	28	E.			43.33			34.1	34.0
Mar.	2	E.			43.35			33.0	33.4
	3	E.			43.37			33.3	33.2
Mar.	6	E.			43.33			33.7	34.2
Means		W.	5	41	43.333	+17	41	33.00	32.60
		E.			43.350			33.58	33.83

Lalande 11293

1902		Cl.	h	m	s	°	′	″	″
Feb.	6	W.	5	53	46.60	+21	35	49.1	48.2
	7	W.			46.57			49.0	49.1
Feb.	8	W.			46.59			50.0	49.6
Mar.	2	E.			46.62			47.6	47.2
	3	E.			46.62			47.8	47.8
Mar.	6	E.			46.57			48.0	47.8
Means		W.	5	53	46.587	+21	35	49.37	48.97
		E.			46.603			47.80	47.60

140 Tauri

1902		Cl.	h	m	s	°	′	″	″
Feb.	9	W.	5	54	31.78	+22	53	38.7	39.0
	13	W.			31.79			39.6	40.0
	14	W.			31.76			38.7	39.6
	23	E.			31.79			37.9	38.1
	26	E.			31.81			38.3	38.6
Feb.	28	E.			31.81			38.9	39.0
Means		W.	5	54	31.777	+22	53	39.00	39.53
		E.			31.803			38.37	38.57

1 Geminorum

							Circle	A.	B.
1902		Cl.	h	m	s	°	′	″	″
Feb.	6	W.	5	58	9.82	+23	16	8.8	7.9
	7	W.			9.83			7.9	7.8
	8	W.			9.82			8.1	7.5
	9	W.			9.82			7.0	7.5
	13	W.			9.81			7.5	7.7
	14	W.			9.78			7.1	7.4
	23	E.			9.78			6.9	6.9
	26	E.			9.78			6.8	6.6
Feb.	28	E.			9.83			7.0	6.2
Mar.	2	E.			9.82			6.8	6.4
	3	E.			9.81			6.9	6.9
Mar.	6	E.			9.80			6.9	7.0
Means		W.	5	58	9.813	+23	16	7.73	7.63
		E.			9.803			6.88	6.67

Lalande 11538

1902		Cl.	h	m	s	°	′	″	″
Feb.	6	W.	6	0	49.49	+21	53	47.9	47.7
	7	W.			49.39			47.0	47.9
	8	W.			49.45			48.2	48.0
	9	W.			49.43			47.9	47.7
Feb.	13	W.			49.38			47.3	47.4
Mar.	2	E.			49.40			46.0	45.8
	3	E.			49.43			45.6	47.0
Mar.	6	E.			49.35			45.6	46.7
Means		W.	6	0	49.428	+21	53	47.66	47.74
		E.			49.393			45.73	46.50

3 Geminorum

1902		Cl.	h	m	s	°	′	″	″
Feb.	6	W.	6	3	47.01	+23	7	45.7	46.3
	7	W.			46.91			46.0	46.7
Feb.	8	W.			46.96			47.0	46.4
Mar.	2	E.			46.97			45.8	45.5
	3	E.			46.94			45.9	46.1
Mar.	6	E.			46.95			46.6	45.7
Means		W.	6	3	46.960	+23	7	46.23	46.47
		E.			46.953			46.10	45.77

Lalande 11717

1902		Cl.	h	m	s	°	′	″	″
Feb.	9	W.	6	5	32.03	+20	55	33.8	33.9
	13	W.			32.05			33.2	33.3
	14	W.			32.01			33.3	32.7
	23	E.			32.04			31.7	31.4
	26	E.			32.03			30.9	32.2
Feb.	28	E.			32.03			31.7	31.7
Means		W.	6	5	32.030	+20	55	33.43	33.30
		E.			32.033			31.43	31.77

6 Geminorum

							Circle	A.	B.
1902		Cl.	h	m	s	°	′	″	″
Feb.	6	W.	6	6	22.70	+22	55	51.6	51.1
	7	W.			22.60			51.6	51.2
Feb.	8	W.			22.65			51.4	51.3
Mar.	2	E.			22.66			50.1	49.9
	3	E.			22.65			50.2	50.8
Mar.	6	E.			22.62			50.5	50.3
Means		W.	6	6	22.650	+22	55	51.53	51.20
		E.			22.643			50.27	50.33

η Geminorum

1902		Cl.	h	m	s	°	′	″	″
Feb.	6	W.	6	8	57.75	+22	32	7.7	7.9
	7	W.			57.76			8.5	7.7
	8	W.			57.76			8.0	7.3
	9	W.			57.73			7.3	6.9
	13	W.			57.79			8.2	7.4
	14	W.			57.79			7.4	6.9
	23	E.			57.74			7.8	7.3
	26	E.			57.76			6.8	7.4
Feb.	28	E.			57.73			7.7	7.5
Mar.	2	E.			57.78			7.4	7.2
	3	E.			57.75			8.0	7.8
Mar.	6	E.			57.73			7.6	7.7
Means		W.	6	8	57.763	+22	32	7.85	7.35
		E.			57.748			7.55	7.48

B. D. +20° 1348

1902		Cl.	h	m	s	°	′	″	″
Feb.	6	W.	6	11	38.23	+20	50	31.6	32.5
	7	W.			38.13			32.2	33.3
Feb.	8	W.			38.19			32.9	33.0
Mar.	2	E.			38.16			32.7	33.4
	3	E.			38.16			33.2	33.4
Mar.	6	E.			38.17			32.9	33.3
Means		W.	6	11	38.183	+20	50	32.23	32.93
		E.			38.163			32.93	33.37

10 Geminorum

1902		Cl.	h	m	s	°	′	″	″
Feb.	9	W.	6	12	56.08	+23	38	27.7	28.3
	13	W.			56.18			28.2	28.7
	14	W.			56.17			27.8	27.7
	23	E.			56.19			28.4	28.9
	26	E.			56.17			28.1	28.5
Feb.	28	E.			56.18			28.5	29.6
Means		W.	6	12	56.143	+23	38	27.90	28.23
		E.			56.180			28.33	29.00

Mayer 264

							Circle A.	B.
1902	Cl.	h	m	s	°	′	″	″
Feb. 6	W.	6	15	22.93	+21	10	33.2	34.2
7	W.			22.89			33.4	35.0
Feb. 8	W.			22.88			33.8	33.9
Mar. 2	E.			22.87			33.4	34.3
3	E.			22.86			34.0	34.3
Mar. 6	E.			22.89			34.7	33.9
Means	W.	6	15	22.900	+21	10	33.47	34.37
	E.			22.873			34.03	34.17

Mayer 266

1902	Cl.	h	m	s	°	′	″	″
Feb. 9	W.	6	15	50.50	+23	48	22.1	22.8
13	W.			50.47			21.8	23.2
14	W.			50.46			21.3	22.0
23	E.			50.57			22.0	23.6
26	E.			50.52			22.0	22.5
Feb. 28	E.			50.48			22.0	22.7
Means	W.	6	15	50.477	+23	48	21.73	22.67
	E.			50.523			22.00	22.93

μ Geminorum

1902	Cl.	h	m	s	°	′	″	″
Feb. 6	W.	6	17	1.94	+22	33	51.0	51.0
7	W.			1.96			51.0	51.5
8	W.			1.96			50.9	51.3
9	W.			1.98			51.4	51.5
13	W.			1.94			51.1	51.5
14	W.			1.90			51.0	51.1
23	E.			1.97			50.6	50.3
26	E.			1.95			50.5	50.3
Feb. 28	E.			1.92			50.3	50.9
Mar. 2	E.			1.93			50.5	50.5
3	E.			1.92			50.0	50.7
Mar. 6	E.			1.97			50.6	50.4
Means	W.	6	17	1.947	+22	33	51.07	51.32
	E.			1.943			50.42	50.52

14 Geminorum

1902	Cl.	h	m	s	°	′	″	″
Feb. 6	W.	6	19	49.90	+21	41	58.6	57.9
7	W.			49.83			58.9	58.8
Feb. 8	W.			49.87			58.4	58.5
Mar. 2	E.			49.86			57.6	58.7
3	E.			49.86			58.0	59.1
Mar. 6	E.			49.86			58.5	59.3
Means	W.	6	19	49.867	+21	41	58.63	58.40
	E.			49.860			58.03	59.03

B. D. +22° 1326

1902	Cl.	h	m	s	°	′	″	″
Feb. 9	W.	6	20	21.19	+22	46	30.7	29.6
13	W.			21.18			30.6	29.9
14	W.			21.21			30.0	29.8
23	E.			21.15			29.0	28.9
26	E.			21.22			28.8	28.4
Feb. 28	E.			21.16			29.1	28.8
Means	W.	6	20	21.193	+22	46	30.43	29.77
	E.			21.177			28.97	28.70

W. B.₂ VI. 535

1902	Cl.	h	m	s	°	′	″	″
Feb. 6	W.	6	22	0.48	+23	43	42.5	43.3
7	W.			0.43			42.3	42.8
Feb. 8	W.			0.48			41.8	43.9
Mar. 2	E.			0.46			40.5	42.1
3	E.			0.48			42.0	42.9
Mar. 6	E.			0.41			41.5	43.1
Means	W.	6	22	0.463	+23	43	42.20	43.33
	E.			0.450			41.33	42.70

16 Geminorum

							Circle A.	B.
1902	Cl.	h	m	s	°	′	″	″
Feb. 9	W.	6	22	7.01	+20	33	19.8	20.8
13	W.			6.98			20.5	20.0
14	W.			6.99			20.6	20.5
23	E.			7.02			19.6	20.3
26	E.			7.07			18.6	19.8
Feb. 28	E.			6.97			19.1	19.8
Means	W.	6	22	6.993	+20	33	20.30	20.43
	E.			7.020			19.10	19.97

Lalande 12462

1902	Cl.	h	m	s	°	′	″	″
Feb. 6	W.	6	26	5.28	+22	15	19.0	18.0
7	W.			5.25			19.0	19.0
Feb. 8	W.			5.26			19.0	18.6
Mar. 2	E.			5.26			16.7	16.1
3	E.			5.29			16.9	17.2
Mar. 6	E.			5.23			17.2	17.5
Means	W.	6	26	5.263	+22	15	19.00	18.53
	E.			5.260			16.93	16.93

B. D. +24° 1303

1902	Cl.	h	m	s	°	′	″	″
Feb. 9	W.	6	27	19.27	+24	6	48.5	48.7
13	W.			19.29			48.9	49.2
14	W.			19.32			48.9	48.4
Feb. 23	E.			19.29			49.2	48.6
Mar. 2	E.			19.32			49.0	48.3
Mar. 3	E.			19.32			48.7	48.3
Means	W.	6	27	19.293	+24	6	48.77	48.77
	E.			19.310			48.97	48.40

W. B.₂ VI. 788

1902	Cl.	h	m	s	°	′	″	″
Feb. 6	W.	6	29	45.97	+20	58	4.6	3.8
7	W.			45.93			4.2	4.3
Feb. 8	W.			45.99			4.0	4.5
Mar. 2	E.			45.98			2.1	3.1
3	E.			45.97			3.2	3.2
Mar. 6	E.			45.95			3.4	4.0
Means	W.	6	29	45.963	+20	58	4.27	4.20
	E.			45.967			2.90	3.43

B. D. +23° 1425

1902	Cl.	h	m	s	°	′	″	″
Feb. 9	W.	6	30	45.86	+23	10	40.5	41.3
13	W.			45.93			40.5	41.1
14	W.			45.94			39.6	41.7
23	E.			45.92			41.7	41.9
26	E.			45.95			41.3	41.4
Feb. 28	E.			45.87			41.9	40.7
Means	W.	6	30	45.910	+23	10	40.20	41.37
	E.			45.913			41.63	41.33

Lalande 12712

1902	Cl.	h	m	s	°	′	″	″
Feb. 8	W.	6	33	11.60	+22	7	2.4	1.9
9	W.			11.61			2.2	2.1
23	E.			11.63			1.9	1.0
Feb. 28	E.			11.54			1.7	0.9
Means	W.	6	33	11.605	+22	7	2.30	2.00
	E.			11.585			1.80	0.95

W. B.₂ VI. 935

1902	Cl.	h	m	s	°	′	″	″
Feb. 6	W.	6	34	7.39	+23	45	43.6	44.1
Feb. 7	W.			7.39			43.6	44.1
Mar. 3	E.			7.37			42.7	44.1
Mar. 6	E.			7.37			43.7	43.5
Means	W.	6	34	7.390	+23	45	43.60	44.10
	E.			7.370			43.20	43.80

B. D. +20° 1521

							Circle A.	B.
1902	Cl.	h	m	s	°	′	″	″
Feb. 13	W.	6	34	9.70	+20	34	30.9	30.5
14	W.			9.73			30.9	30.4
Feb. 26	E.			9.78			29.5	29.9
Mar. 2	E.			9.65			29.4	29.7
Means	W.	6	34	9.715	+20	34	30.90	30.45
	E.			9.715			29.45	29.80

Lalande 12914

1902	Cl.	h	m	s	°	′	″	″
Feb. 6	W.	6	38	40.24	+20	47	30.5	30.6
7	W.			40.18			30.4	30.5
Feb. 8	W.			40.23			30.4	29.8
Mar. 2	E.			40.17			29.3	29.5
3	E.			40.23			29.8	29.4
Mar. 6	E.			40.23			29.5	29.1
Means	W.	6	38	40.217	+20	47	30.43	30.30
	E.			40.210			29.53	29.33

Lalande 12925

1902	Cl.	h	m	s	°	′	″	″
Feb. 9	W.	6	39	0.98	+22	56	12.2	12.2
13	W.			0.99			13.2	12.9
14	W.			0.99			12.7	12.1
23	E.			0.97			11.9	11.4
Feb. 26	E.			0.99			11.6	11.1
Means	W.	6	39	0.987	+22	56	12.70	12.40
	E.			0.980			11.75	11.25

B. D. +21° 1372

1902	Cl.	h	m	s	°	′	″	″
Feb. 6	W.	6	40	24.16	+21	38	5.4	5.7
7	W.			24.14			4.9	5.5
Feb. 8	W.			24.17			6.1	6.2
Mar. 2	E.			24.11			5.4	5.0
3	E.			24.11			5.8	6.1
Mar. 6	E.			24.15			5.7	5.5
Means	W.	6	40	24.157	+21	38	5.47	5.80
	E.			24.123			5.63	5.53

ζ Geminorum

1902	Cl.	h	m	s	°	′	″	″
Feb. 6	W.	6	58	17.86	+20	42	51.4	52.0
7	W.			17.87			51.7	52.6
8	W.			17.83			51.8	52.8
9	W.			17.85			52.4	52.2
13	W.			17.80			51.4	51.4
14	W.			17.84			52.0	52.8
23	E.			17.84			51.1	51.7
26	E.			17.84			50.7	52.0
Feb. 28	E.			17.86			51.3	52.0
Mar. 2	E.			17.82			50.7	52.3
3	E.			17.86			50.6	51.9
Mar. 6	E.			17.86			50.4	51.5
Means	W.	6	58	17.842	+20	42	51.78	52.30
	E.			17.847			50.80	51.90

51 Geminorum

1902	Cl.	h	m	s	°	′	″	″
Feb. 6	W.	7	7	44.70	+16	19	31.0	30.6
7	W.			44.65			31.3	30.7
8	W.			44.67			30.8	30.5
9	W.			44.66			30.7	31.7
13	W.			44.71			31.0	31.7
14	W.			44.68			30.7	31.1
23	E.			44.67			32.6	32.6
Feb. 26	E.			44.71			33.2	32.7
Mar. 2	E.			44.68			32.6	32.0
3	E.			44.69			32.7	32.0
Mar. 6	E.			44.66			32.8	32.3
Means	W.	7	7	44.678	+16	19	30.92	31.05
	E.			44.682			32.78	32.32

Circle A. B.

δ Geminorum

1902	Cl.	h	m	s	°	′	″	″
Feb. 6	W.	7	14	16.24	+22	9	46.5	46.9
7	W.			16.24			46.1	46.0
8	W.			16.26			46.5	46.6
9	W.			16.29			46.7	46.8
13	W.			16.29			46.4	45.8
14	W.			16.28			46.2	46.0
23	E.			16.23			47.3	46.3
Feb. 26	E.			16.25			47.6	46.0
Mar. 2	E.			16.27			48.2	47.2
3	E.			16.24			47.9	46.8
Mar. 6	E.			16.30			47.4	46.4
Means	W.	7	14	16.267	+22	9	46.40	46.35
	E.			16.258			47.68	46.54

ψ Leonis

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	9	38	23.74	+14	28	12.8	13.0
29	E.			23.75			12.6	13.1
Mar. 30	E.			23.76			12.6	12.3
Apr. 3	E.			23.80			12.6	13.0
5	E.			23.79			12.8	12.9
12	E.			23.76			12.5	13.6
13	E.			23.72			13.1	13.4
20	W.			23.78			11.0	12.0
21	W.			23.77			10.7	11.7
22	W.			23.73			11.1	11.5
23	W.			23.76			11.3	11.4
24	W.			23.75			11.6	11.4
Apr. 27	W.			23.74			11.3	11.8
May 1	W.			23.73			11.5	12.0
Means	W.	9	38	23.751	+14	28	11.21	11.69
	E.			23.760			12.71	13.04

ν Leonis

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	9	52	57.11	+12	54	43.8	44.1
29	E.			57.15			44.4	43.4
Mar. 30	E.			57.10			44.6	44.4
Apr. 5	E.			57.15			44.5	44.3
12	E.			57.12			44.1	43.9
13	E.			57.14			44.6	44.4
20	W.			57.16			44.5	45.3
21	W.			57.17			44.8	45.5
22	W.			57.14			44.8	45.1
23	W.			57.13			45.4	45.5
24	W.			57.20			44.4	44.2
Apr. 27	W.			57.16			44.8	44.6
May 1	W.			57.12			44.8	44.7
Means	W.	9	52	57.154	+12	54	44.79	44.99
	E.			57.128			44.33	44.08

α Leonis

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	10	3	9.21	+12	26	46.6	46.2
29	E.			9.16			46.0	44.6
Mar. 30	E.			9.17			46.1	46.1
Apr. 3	E.			9.20			46.5	45.9
5	E.			9.18			46.0	45.8
12	E.			9.20			46.8	45.8
13	E.			9.22			46.6	45.5
20	W.			9.18			46.8	46.5
21	W.			9.20			46.7	46.7
22	W.			9.16			46.9	47.1
23	W.			9.16			46.6	46.4
24	W.			9.15			47.3	47.0
Apr. 27	W.			9.18			47.2	46.8
May 1	W.			9.16			46.9	46.7
Means	W.	10	3	9.170	+12	26	46.91	46.74
	E.			9.191			46.37	45.70

Circle A. B.

37 Leonis

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	10	11	25.15	+14	13	1.3	2.1
29	E.			25.16			2.3	1.2
Mar. 30	E.			25.15			1.3	1.8
Apr. 3	E.			25.18			1.2	2.3
20	W.			25.19			0.5	1.6
21	W.			25.19			0.8	2.1
22	W.			25.17			1.3	1.9
Apr. 23	W.			25.18			0.9	2.0
Means	W.	10	11	25.182	+14	13	0.88	1.90
	E.			25.160			1.52	1.85

Mayer 454

1902	Cl.	h	m	s	°	′	″	″
Apr. 5	E.	10	13	8.80	+13	6	44.8	44.2
12	E.			8.83			44.1	44.0
13	E.			8.84			44.5	44.4
24	W.			8.76			43.2	44.6
Apr. 27	W.			8.82			43.9	44.5
May 1	W.			8.82			43.7	44.8
Means	W.	10	13	8.800	+13	6	43.60	44.63
	E.			8.823			44.47	44.20

42 Leonis

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	10	16	34.15	+15	28	12.6	11.9
29	E.			34.18			12.0	11.3
Mar. 30	E.			34.22			11.0	10.9
Apr. 20	W.			34.21			9.8	....
21	W.			34.22			10.6	11.0
22	W.			34.21			9.9	11.3
Apr. 23	W.			34.18			9.7	10.6
Means	W.	10	16	34.205	+15	28	10.00	10.97
	E.			34.183			11.87	11.37

Lalande 20109

1902	Cl.	h	m	s	°	′	″	″
Apr. 3	E.	10	17	16.78	+17	14	10.5	11.1
5	E.			16.73			9.9	10.7
24	W.			16.73			10.5	10.4
Apr. 27	W.			16.74			9.6	9.8
May 1	W.			16.76			10.4	10.0
Means	W.	10	17	16.743	+17	14	10.17	10.07
	E.			16.755			10.20	10.90

Lalande 20139

1902	Cl.	h	m	s	°	′	″	″
Apr. 12	E.	10	18	10.53	+14	24	3.3	3.1
13	E.			10.54			3.6	4.0
20	W.			10.58			2.7	4.2
21	W.			10.62			2.6	4.3
22	W.			10.55			3.4	4.1
Apr. 23	W.			10.55			2.4	4.0
Means	W.	10	18	10.575	+14	24	2.78	4.15
	E.			10.535			3.45	3.55

Lalande 20181

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	10	19	45.35	+13	13	38.2	37.0
Mar. 30	E.			45.36			37.8	37.3
Apr. 3	E.			45.37			37.5	37.7
24	W.			45.35			37.8	38.7
Apr. 27	W.			45.36			36.7	37.5
May 1	W.			45.33			37.8	38.8
Means	W.	10	19	45.347	+13	13	37.43	38.33
	E.			45.360			37.83	37.33

Circle A. B.

B. D. +14° 2244

1902	Cl.	h	m	s	°	′	″	″
Apr. 5	E.	10	21	31.18	+14	7	31.6	30.6
12	E.			31.14			31.6	30.7
13	E.			31.17			32.4	31.4
20	W.			31.17			30.9	31.4
21	W.			31.22			31.0	31.1
22	W.			31.21			31.3	31.7
Apr. 23	W.			31.16			31.1	31.7
Means	W.	10	21	31.190	+14	7	31.08	31.48
	E.			31.163			31.87	30.90

W. B.₂ X. 406

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	10	23	10.31	+15	15	16.0	15.3
29	E.			10.31			15.9	14.8
Mar. 30	E.			10.33			15.1	15.3
Apr. 13	E.			10.34			16.1	15.1
24	W.			10.36			14.5	14.6
Apr. 27	W.			10.32			14.1	14.7
May 1	W.			10.36			14.7	15.1
Means	W.	10	23	10.347	+15	15	14.43	14.80
	E.			10.322			15.78	15.12

W. B.₂ X. 408

1902	Cl.	h	m	s	°	′	″	″
Apr. 3	E.	10	23	11.10	+16	15	21.4	21.1
5	E.			11.10			20.9	21.0
12	E.			11.05			21.2	21.8
20	W.			11.07			20.5	20.9
21	W.			11.10			20.4	20.8
22	W.			11.13			21.4	20.7
Apr. 23	W.			11.09			20.4	20.5
Means	W.	10	23	11.098	+16	15	20.68	20.72
	E.			11.083			21.17	21.30

46 Leonis

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	10	26	57.95	+14	38	25.9	25.8
29	E.			57.93			25.6	24.7
Mar. 30	E.			57.91			25.3	24.8
Apr. 20	W.			57.98			24.0	24.4
Apr. 21	W.			58.00			24.2	24.6
Means	W.	10	26	57.990	+14	38	24.10	24.50
	E.			57.930			25.60	25.10

Lalande 20406

1902	Cl.	h	m	s	°	′	″	″
Apr. 3	E.	10	27	4.61	+13	25	22.6	22.6
5	E.			4.61			22.5	22.8
22	W.			4.66			23.2	23.7
Apr. 27	W.			4.64			22.6	23.5
May 1	W.			4.63			23.8	23.7
Means	W.	10	27	4.643	+13	25	23.20	23.63
	E.			4.610			22.55	22.70

A. G. C. 4189

1902	Cl.	h	m	s	°	′	″	″
Apr. 12	E.	10	28	18.38	+15	43	8.8	8.6
13	E.			18.38			9.0	8.7
23	W.			18.38			7.3	8.0
Apr. 24	W.			18.39			7.3	8.1
Means	W.	10	28	18.385	+15	43	7.30	8.05
	E.			18.380			8.90	8.65

Lalande 20522

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	10	31	49.54	+13	22	31.2	30.2
29	E.			49.54			30.6	29.4
Mar. 30	E.			49.52			29.6	29.2
Apr. 3	E.			49.56			30.1	29.5
20	W.			49.52			29.8	30.9
21	W.			49.55			29.7	30.7
Apr. 23	W.			49.56			29.7	30.2
Means	W.	10	31	49.543	+13	22	29.73	30.60
	E.			49.540			30.38	29.58

Circle A. B.

W. B.₂ X. 635

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	10	33	56.44	+15	14	32.9	32.2
29	E.			56.45			33.8	32.3
Mar. 30	E.			56.44			33.0	32.9
Apr. 3	E.			56.48			33.6	32.4
20	W.			56.43			32.9	32.2
21	W.			56.50			33.0	32.4
Apr. 23	W.			56.43			31.8	32.4
Means	W.	10	33	56.453	+15	14	32.57	32.33
	E.			56.452			33.32	32.45

W. B.₁ X. 583

1902	Cl.	h	m	s	°	′	″	″
Apr. 5	E.	10	35	26.31	+12	35	22.8	22.6
12	E.			26.28			23.1	22.9
13	E.			26.31			23.1	22.9
24	W.			26.35			22.9	23.3
Apr. 27	W.			26.27			22.7	23.5
May 1	W.			26.34			23.6	23.4
Means	W.	10	35	26.320	+12	35	23.07	23.40
	E.			26.300			23.00	22.80

B. D. +14° 2285

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	10	36	53.31	+13	59	4.0	2.0
Mar. 30	E.			53.29			3.5	1.8
Apr. 3	E.			53.34			3.2	2.5
20	W.			53.29			1.3	1.5
21	W.			53.34			1.4	1.3
Apr. 23	W.			53.28			1.0	1.6
Means	W.	10	36	53.303	+13	59	1.23	1.47
	E.			53.313			3.57	2.10

Lalande 20748

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	10	41	8.29	+13	15	52.0	51.6
29	E.			8.29			52.4	50.7
Mar. 30	E.			8.26			52.3	51.9
Apr. 3	E.			8.29			51.3	52.3
20	W.			8.27			51.9	52.7
21	W.			8.29			52.4	52.1
22	W.			8.27			....	52.1
Apr. 23	W.			8.27			51.2	52.3
Means	W.	10	41	8.275	+13	15	51.83	52.30
	E.			8.282			52.00	51.62

k Leonis

1902	Cl.	h	m	s	°	′	″	″
Apr. 5	E.	10	41	13.93	+14	42	44.3	44.0
12	E.			13.92			44.3	44.4
13	E.			13.90			44.9	44.6
24	W.			13.95			43.1	44.7
Apr. 27	W.			13.91			42.7	44.2
May 1	W.			13.97			43.6	44.9
Means	W.	10	41	13.943	+14	42	43.13	44.60
	E.			13.917			44.50	44.33

l Leonis

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	10	44	6.35	+11	3	49.2	50.6
29	E.			6.44			49.8	50.1
Mar. 30	E.			6.43			49.8	50.4
Apr. 3	E.			6.43			50.0	51.1
5	E.			6.39			49.5	50.6
12	E.			6.40			49.7	50.6
13	E.			6.42			49.2	51.1
20	W.			6.39			50.8	51.0
21	W.			6.42			50.5	50.7
22	W.			6.44			50.5	51.2
23	W.			6.42			51.0	51.5
24	W.			6.43			50.6	51.7
Apr. 27	W.			6.42			50.3	50.8
May 1	W.			6.42			51.0	51.6
Means	W.	10	44	6.420	+11	3	50.67	51.21
	E.			6.409			49.60	50.64

Circle A. B.

χ Leonis

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	10	59	57.81	+7	51	56.7	57.6
29	E.			57.78			56.8	57.6
Mar. 30	E.			57.81			57.0	58.0
Apr. 3	E.			57.73			56.8	57.7
5	E.			57.77			56.9	57.7
12	E.			57.78			57.3	57.3
13	E.			57.77			56.8	57.7
20	W.			57.75			57.9	56.8
21	W.			57.78			58.1	56.1
22	W.			57.78			58.0	56.5
23	W.			57.76			57.4	56.5
24	W.			57.75			57.9	56.8
Apr. 27	W.			57.75			58.0	56.6
May 1	W.			57.81			57.8	56.9
Means	W.	10	59	57.769	+7	51	57.87	56.60
	E.			57.779			56.90	57.66

θ Leonis

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	11	9	5.92	+15	57	56.4	54.0
29	E.			5.87			56.2	54.8
Mar. 30	E.			5.88			55.6	54.4
Apr. 3	E.			5.90			55.6	53.5
5	E.			5.92			55.9	54.2
12	E.			5.93			55.3	54.5
13	E.			5.91			55.6	53.5
20	W.			5.90			54.3	54.2
21	W.			5.90			54.5	54.6
22	W.			5.90			54.6	54.0
23	W.			5.92			53.9	54.5
24	W.			5.90			53.8	54.6
Apr. 27	W.			5.91			54.1	54.7
May 1	W.			5.90			53.9	53.4
Means	W.	11	9	5.904	+15	57	54.16	54.29
	E.			5.904			55.80	54.13

β Virginis

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	11	45	35.47	+2	19	1.6	1.6
Mar. 30	E.			35.43			1.5	0.8
Apr. 3	E.			35.44			2.3	0.9
5	E.			35.42			1.0	0.9
13	E.			35.40			2.0	0.5
15	E.			35.48			2.0	1.9
17	W.			35.45			1.2	1.1
23	W.			35.47			0.7	1.3
24	W.			35.44			1.1	1.3
27	W.			35.41			0.8	1.1
Apr. 30	W.			35.46			0.4	1.1
May 1	W.			35.41			1.1	1.1
Means	W.	11	45	35.440	+2	19	0.88	1.17
	E.			35.440			1.73	1.11

7 Virginis

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	11	54	55.75	+4	12	3.7	4.2
Mar. 30	E.			55.78			3.8	4.3
Apr. 3	E.			55.76			3.2	4.0
5	E.			55.77			3.8	3.8
13	E.			55.80			3.7	3.9
15	E.			55.80			3.5	3.8
17	W.			55.80			3.5	4.0
23	W.			55.79			3.7	4.1
24	W.			55.76			3.6	4.2
27	W.			55.80			3.8	4.4
Apr. 30	W.			55.78			3.4	3.8
May 1	W.			55.78			3.7	4.8
Means	W.	11	54	55.785	+4	12	3.62	4.22
	E.			55.777			3.62	4.00

Circle A. B.

η Virginis

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	12	14	53.52	−0	7	20.1	19.8
Mar. 30	E.			53.49			20.1	19.7
Apr. 3	E.			53.54			20.0	19.5
5	E.			53.53			19.7	19.1
13	E.			53.54			19.6	18.9
15	E.			53.46			20.6	20.0
17	W.			53.50			19.8	20.0
23	W.			53.48			18.7	19.6
24	W.			53.52			19.0	20.5
27	W.			53.54			19.1	19.5
Apr. 30	W.			53.51			19.0	19.2
May 1	W.			53.53			19.7	19.7
Means	W.	12	14	53.513	−0	7	19.22	19.75
	E.			53.513			20.02	19.50

W. B.₁ XII. 225

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	12	16	36.91	+0	23	10.4	11.5
Mar. 30	E.			36.86			11.1	10.9
Apr. 3	E.			36.86			10.2	10.9
17	W.			36.89			10.8	11.0
23	W.			36.85			11.8	11.6
Apr. 24	W.			36.87			11.4	10.6
Means	W.	12	16	36.870	+0	23	11.33	11.07
	E.			36.877			10.57	11.10

Lalande 23218

1902	Cl.	h	m	s	°	′	″	″
Apr. 5	E.	12	19	40.03	+1	55	35.7	36.4
13	E.			40.08			36.2	36.4
15	E.			40.12			35.3	35.5
17	W.			40.11			36.0	36.8
23	W.			40.02			35.3	36.7
Apr. 24	W.			40.11			35.3	35.5
Means	W.	12	19	40.080	+1	55	35.53	36.33
	E.			40.077			35.73	36.10

Lalande 23271

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	12	21	45.02	+0	21	34.3	33.3
Mar. 30	E.			45.02			33.6	34.2
Apr. 3	E.			45.02			33.3	34.1
17	W.			45.03			33.9	32.9
23	W.			44.99			34.0	33.5
Apr. 24	W.			44.99			33.6	32.7
Means	W.	12	21	45.003	+0	21	33.83	33.03
	E.			45.020			33.73	33.87

W. B.₁ XII. 363

1902	Cl.	h	m	s	°	′	″	″
Apr. 5	E.	12	24	21.48	+0	41	26.9	27.1
13	E.			21.52			27.1	27.6
15	E.			21.49			27.2	27.2
27	W.			21.53			27.6	28.8
Apr. 30	W.			21.53			27.6	28.5
May 1	W.			21.45			27.2	28.9
Means	W.	12	24	21.503	+0	41	27.47	28.73
	E.			21.497			27.07	27.30

Lalande 23399

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	12	26	14.16	+1	52	7.1	7.0
Mar. 30	E.			14.17			7.3	7.2
Apr. 3	E.			14.15			7.1	7.8
17	W.			14.15			7.8	7.9
23	W.			14.10			7.2	....
Apr. 24	W.			14.19			7.1	8.4
Means	W.	12	26	14.147	+1	52	7.37	8.15
	E.			14.160			7.17	7.33

Circle A. B.

W. B.₁ XII. 420

1902	Cl.	h	m	s	°	′	″	″
Apr. 5	E.	12	27	58.27	+0	15	57.4	57.5
13	E.			58.27			56.8	57.4
15	E.			58.31			56.6	56.5
27	W.			58.29			57.6	56.3
Apr. 30	W.			58.30			57.6	56.5
May 1	W.			58.31			58.6	57.3
Means	W.	12	27	58.300	+0	15	57.93	56.70
	E.			58.283			56.93	57.13

Mayer 531

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	12	29	21.84	−0	52	3.2	2.5
Mar. 30	E.			21.86			3.6	2.5
Apr. 3	E.			21.85			3.2	2.9
17	W.			21.85			2.8	3.8
23	W.			21.85			2.8	3.8
Apr. 24	W.			21.91			2.9	4.1
Means	W.	12	29	21.870	−0	52	2.83	3.90
	E.			21.850			3.33	2.63

B. D. +1° 2721

1902	Cl.	h	m	s	°	′	″	″
Apr. 5	E.	12	30	49.59	+1	8	56.2	55.7
13	E.			49.67			55.9	55.0
15	E.			49.67			56.1	55.0
27	W.			49.70			54.3	53.4
Apr. 30	W.			49.68			54.6	54.5
May 1	W.			49.66			54.8	54.1
Means	W.	12	30	49.680	+1	8	54.57	54.00
	E.			49.643			56.07	55.23

Lalande 23581

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	12	32	3.97	−1	46	43.9	43.2
Mar. 30	E.			3.93			44.0	43.4
Apr. 3	E.			3.92			44.2	42.7
17	W.			3.97			41.6	42.8
23	W.			3.91			42.1	42.6
Apr. 24	W.			4.01			42.1	43.5
Means	W.	12	32	3.963	−1	46	41.93	42.97
	E.			3.940			44.03	43.10

B. D. −0° 2595

1902	Cl.	h	m	s	°	′	″	″
Apr. 5	E.	12	33	55.53	−0	18	55.6	54.2
13	E.			55.47			55.9	54.8
15	E.			55.46			55.0	54.1
27	W.			55.48			56.0	56.5
Apr. 30	W.			55.48			55.5	56.6
May 1	W.			55.48			55.2	56.1
Means	W.	12	33	55.480	−0	18	55.57	56.40
	E.			55.487			55.50	54.37

Lalande 23700

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	12	37	2.92	+1	1	60.0	. . .
Mar. 30	E.			2.88			59.3	59.3
Apr. 3	E.			2.91			59.4	59.5
17	W.			2.90			59.7	60.1
23	W.			2.88			59.1	60.4
Apr. 24	W.			2.92			60.0	60.0
Means	W.	12	37	2.900	+1	1	59.60	60.17
	E.			2.903			59.57	59.40

B. D. −1° 2716

1902	Cl.	h	m	s	°	′	″	″
Apr. 13	E.	12	37	55.47	−1	42	55.7	55.4
15	E.			55.46			55.4	56.1
27	W.			55.44			55.2	56.6
Apr. 30	W.			55.49			54.5	56.2
May 1	W.			55.46			54.7	57.1
Means	W.	12	37	55.463	1	42	54.80	56.63
	E.			55.465			55.55	55.75

Circle A. B.

Piazzi XII, 170

1902	Cl.	h	m	s	°	′	″	″
Apr. 3	E.	12	39	9.40	−2	18	20.3	19.9
5	E.			9.48			20.1	19.7
17	W.			9.43			19.1	20.6
23	W.			9.43			19.7	21.4
Apr. 24	W.			9.43			19.4	21.4
Means	W.	12	39	9.430	−2	18	19.40	21.13
	E.			9.440			20.20	19.80

Lalande 23859

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	12	43	5.77	+0	10	33.8	33.5
Mar. 30	E.			5.75			33.9	34.0
Apr. 3	E.			5.76			32.9	34.0
17	W.			5.78			33.2	32.8
23	W.			5.75			32.6	31.5
Apr. 24	W.			5.78			32.3	31.7
Means	W.	12	43	5.770	+0	10	32.70	32.00
	E.			5.760			33.53	33.83

W. B.₁ XII. 729

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	12	45	22.18	−1	17	28.6	27.9
Mar. 30	E.			22.15			28.7	27.7
Apr. 3	E.			22.15			28.8	27.5
17	W.			22.12			26.5	27.6
23	W.			22.15			[28.6]	28.2
Apr. 24	W.			22.20			27.3	27.9
Means	W.	12	45	22.157	−1	17	26.90	27.90
	E.			22.160			28.70	27.70

δ Virginis

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	12	50	39.98	+3	55	47.5	48.2
Mar. 30	E.			39.96			47.7	48.2
Apr. 3	E.			39.98			47.4	47.1
5	E.			40.00			47.8	47.4
13	E.			40.00			47.1	47.7
15	E.			39.99			47.6	47.8
17	W.			39.93			49.1	48.0
23	W.			39.98			48.1	48.3
24	W.			40.02			48.5	48.2
27	W.			40.00			48.5	48.3
Apr. 30	W.			39.97			48.7	48.3
May 1	W.			39.98			49.0	48.0
Means	W.	12	50	39.980	+3	55	48.65	48.18
	E.			39.985			47.52	47.73

48 Virginis

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	12	58	51.43	−3	8	9.5	9.4
Mar. 30	E.			51.46			9.1	9.5
Apr. 3	E.			51.41			9.0	9.2
5	E.			51.41			9.3	8.9
13	E.			51.40			9.8	9.1
15	E.			51.44			8.9	9.1
17	W.			51.41			9.5	8.8
23	W.			51.43			9.0	9.4
24	W.			51.44			9.4	8.7
27	W.			51.45			9.1	9.0
Apr. 30	W.			51.42			9.3	9.3
May 1	W.			51.40			9.4	9.9
Means	W.	12	58	51.425	−3	8	9.28	9.18
	E.			51.425			9.27	9.20

Circle A. B.

θ Virginis

1902	Cl.	h	m	s	°	′	″	″
Mar. 29	E.	13	4	52.49	−5	0	55.8	57.2
Mar. 30	E.			52.54			56.3	57.0
Apr. 3	E.			52.50			56.6	56.2
5	E.			52.52			56.1	56.8
13	E.			52.50			56.4	56.8
15	E.			52.47			56.0	56.9
17	W.			52.56			57.0	57.3
23	W.			52.49			57.2	57.4
24	W.			52.48			57.5	57.4
27	W.			52.47			57.8	57.8
Apr. 30	W.			52.51			57.0	57.3
May 1	W.			52.51			57.3	57.2
Means	W.	13	4	52.503	−5	0	57.30	57.40
	E.			52.503			56.20	56.82

σ Scorpii

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	16	15	13.81	−25	21	27.7	28.1
12	E.			13.78			28.4	28.3
22	E.			13.76			28.6	28.4
July 31	E.			13.82			28.2	28.2
Aug. 2	E.			13.82			27.7	28.1
4	E.			13.79			28.2	28.7
7	E.			13.75			27.6	27.8
Aug. 8	E.			13.83			28.0	28.6
Mean	E.	16	15	13.795	−25	21	28.05	28.27

ρ Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	16	19	42.44	−23	13	19.5	19.3
12	E.			42.43			19.8	19.1
22	E.			42.39			19.6	19.7
July 31	E.			42.44			20.4	19.7
Aug. 2	E.			42.41			19.7	18.4
4	E.			42.42			20.1	19.2
7	E.			42.43			20.3	19.5
Aug. 8	E.			42.41			19.1	19.1
Mean	E.	16	19	42.421	−23	13	19.81	19.25

τ Scorpii

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	16	29	46.77	−28	0	46.4	46.2
12	E.			46.79			46.1	46.1
22	E.			46.86			45.6	46.0
July 31	E.			46.76			46.1	46.4
Aug. 2	E.			46.78			46.6	46.3
4	E.			46.80			46.2	45.8
7	E.			46.83			46.7	46.5
Aug. 8	E.			46.77			46.4	45.7
Mean	E.	16	29	46.795	−28	0	46.26	46.12

Bradley 2115

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	16	36	7.94	−19	44	13.1	14.5
12	E.			7.99			13.6	13.1
July 22	E.			7.94			13.3	13.3
Aug. 7	E.			7.94			14.2	13.4
Aug. 8	E.			7.92			14.2	13.7
Mean	E.	16	36	7.946	−19	44	13.68	13.60

O. A. 15868

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	16	37	12.46	−21	9	24.1	22.8
Aug. 2	E.			12.53			25.2	23.1
Aug. 4	E.			12.48			23.1	21.6
Mean	E.	16	37	12.490	−21	9	24.13	22.50

15 Ophiuchi

							Circle A.	B.
1902	Cl.	h	m	s	°	′	″	″
July 11	E.	16	39	14.90	−23	0	6.8	6.2
12	E.			14.95			6.1	5.8
July 22	E.			14.89			6.2	6.4
Aug. 7	E.			14.94			6.7	6.4
Aug. 8	E.			14.90			6.4	6.9
Mean	E.	16	39	14.916	−23	0	6.44	6.34

O. A. 15982

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	16	43	14.09	−20	16	60.6	59.0
July 12	E.			14.21			60.3	58.4
Mean	E.	16	43	14.150	−20	16	60.45	58.70

Lalande 30551

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	16	43	44.23	−21	40	50.8	49.6
Aug. 4	E.			44.25			49.9	48.7
7	E.			44.27			50.2	49.7
Aug. 8	E.			44.20			50.0	49.4
Mean	E.	16	43	44.238	−21	40	50.22	49.35

O. A. 15999

1902	Cl.	h	m	s	°	′	″	″
July 22	E.	16	44	4.56	23	16	41.0	41.3
Aug. 2	E.			4.60			41.8	41.1
Mean	E.	16	44	4.580	−23	16	41.40	41.20

O. A. 16091

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	16	48	47.11	−21	43	10.6	9.8
12	E.			47.10			10.8	9.4
July 22	E.			47.09			10.0	9.4
Aug. 7	E.			47.10			11.2	10.4
Aug. 8	E.			47.13			11.2	9.9
Mean	E.	16	48	47.106	−21	43	10.76	9.78

24 Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	16	50	53.31	−22	59	41.5	41.4
12	E.			53.35			41.4	41.8
July 22	E.			53.30			42.5	41.9
Aug. 7	E.			53.33			42.1	41.5
Aug. 8	E.			53.28			41.1	42.2
Mean	E.	16	50	53.314	−22	59	41.72	41.76

Lalande 30869

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	16	54	39.20	−21	18	46.6	45.5
12	E.			39.21			46.3	45.4
July 22	E.			39.25			46.8	45.6
Aug. 7	E.			39.19			47.3	45.4
Aug. 8	E.			39.13			47.3	46.1
Mean	E.	16	54	39.196	−21	18	46.86	45.60

Lalande 30946

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	16	57	26.42	−23	0	39.9	39.9
12	E.			26.46			39.4	39.3
July 22	E.			26.40			40.0	40.0
Aug. 7	E.			26.45			39.8	40.3
Aug. 8	E.			26.39			39.5	39.3
Mean	E.	16	57	26.424	−23	0	39.72	39.76

Bradley 2162

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	0	20.63	−21	25	45.6	44.1
12	E.			20.68			45.1	44.8
July 22	E.			20.63			45.2	43.8
Aug. 7	E.			20.64			46.0	44.1
Aug. 8	E.			20.63			44.8	44.9
Mean	E.	17	0	20.642	21	25	45.34	44.34

O. A. 16358

							Circle A.	B.
1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	2	38.13	−23	5	53.1	53.2
12	E.			38.14			53.2	53.2
July 22	E.			38.12			53.2	53.1
Aug. 4	E.			38.14			52.6	52.8
Mean	E.	17	2	38.132	−23	5	53.02	53.08

Lalande 31247

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	6	28.34	−22	48	21.9	21.1
12	E.			28.39			21.3	20.9
July 22	E.			28.35			20.9	20.4
Aug. 8	E.			28.30			21.6	21.1
Mean	E.	17	6	28.345	−22	48	21.42	20.88

Lalande 31255

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	17	6	47.58	−21	29	15.3	15.0
Aug. 2	E.			47.62			16.0	14.5
4	E.			47.60			14.9	14.1
Aug. 7	E.			47.61			15.4	14.2
Mean	E.	17	6	47.602	−21	29	15.40	14.45

Lacaille 7225

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	17	12	7.94	−23	57	54.5	54.5
Aug. 2	E.			7.94			55.0	54.1
4	E.			7.94			53.3	53.3
Aug. 8	E.			7.92			54.4	53.9
Mean	E.	17	12	7.935	−23	57	54.30	53.95

O. A. 16586

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	12	59.93	22	36	13.1	12.6
12	E.			59.97			12.7	11.7
July 22	E.			60.00			12.4	11.1
Aug. 7	E.			59.96			12.9	13.3
Mean	E.	17	12	59.965	−22	36	12.78	12.18

ξ Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	15	7.77	−21	0	29.8	28.6
12	E.			7.79			29.3	28.0
July 22	E.			7.81			29.2	27.2
Aug. 7	E.			7.73			29.7	29.0
Aug. 8	E.			7.74			29.8	28.8
Mean	E.	17	15	7.768	−21	0	29.56	28.32

Lalande 31556

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	17	17.28	−22	54	55.5	56.0
12	E.			17.27			55.1	54.9
July 22	E.			17.30			54.2	54.7
Aug. 4	E.			17.22			53.2	53.0
Mean	E.	17	17	17.268	−22	54	54.50	54.65

Mayer 701

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	17	18	50.28	−21	20	61.9	61.3
Aug. 2	E.			50.27			61.2	60.7
4	E.			50.28			59.8	60.2
7	E.			50.30			60.9	61.1
Aug. 8	E.			50.30			60.6	60.4
Mean	E.	17	18	50.286	−21	20	60.88	60.74

b Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	20	23.11	−24	5	7.6	8.1
12	E.			23.07			8.0	8.1
July 22	E.			23.06			7.7	8.4
Aug. 7	E.			23.04			8.4	9.2
Mean	E.	17	20	23.070	−24	5	7.92	8.45

O. A. 16823

							Circle A.	B.
1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	22	46.69	−22	29	60.0	60.7
12	E.			46.70			59.7	59.4
July 22	E.			46.73			59.2	58.6
Aug. 4	E.			46.68			59.3	58.5
Aug. 7	E.			46.66			60.6	59.8
Mean	E.	17	22	46.692	−22	29	59.76	59.40

51 Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	25	26.15	−23	53	14.0	14.2
12	E.			26.16			13.5	13.3
July 22	E.			26.13			13.8	13.6
Aug. 7	E.			26.11			13.9	14.3
Aug. 8	E.			26.08			14.3	14.1
Mean	E.	17	25	26.126	−23	53	13.90	13.90

52 Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	29	24.73	−21	58	42.2	41.2
12	E.			24.71			42.0	40.6
July 22	E.			24.73			41.5	40.7
Aug. 8	E.			24.74			41.5	41.5
Mean	E.	17	29	24.728	−21	58	41.80	41.00

Piazzi XVII, 142

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	17	29	33.78	−24	33	40.4	40.3
Aug. 2	E.			33.79			41.0	41.5
4	E.			33.72			39.2	39.6
Aug. 7	E.			33.74			40.0	40.9
Mean	E.	17	29	33.758	−24	33	40.15	40.58

C. P. D. −23° 6620

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	31	49.56	−23	19	42.3	43.8
12	E.			49.60			42.8	42.7
July 22	E.			49.58			43.6	43.9
Aug. 8	E.			49.53			43.1	43.3
Mean	E.	17	31	49.568	−23	19	42.95	43.42

Bradley 2219

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	17	32	51.44	−21	51	17.5	17.5
Aug. 2	E.			51.44			18.4	17.4
4	E.			51.45			17.2	16.6
Aug. 7	E.			51.46			17.2	17.3
Mean	E.	17	32	51.448	−21	51	17.58	17.20

Piazzi XVII, 173

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	34	51.14	−23	47	0.8	1.4
12	E.			51.18			1.0	1.6
July 22	E.			51.13			0.2	0.3
Aug. 7	E.			51.14			0.6	1.4
Aug. 8	E.			51.15			1.0	1.7
Mean	E.	17	34	51.148	−23	47	0.72	1.28

58 Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	37	33.42	−21	38	10.1	9.2
12	E.			33.43			9.5	8.6
July 22	E.			33.42			9.7	8.5
Aug. 7	E.			33.39			8.6	7.8
Mean	E.	17	37	33.415	−21	38	9.48	8.52

Circle A. B.

C. P. D. −24° 5939

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	17	38	53.05	−24	38	27.9	27.3
Aug. 2	E.			53.05			27.5	25.9
4	E.			53.04			27.0	26.4
Aug. 8	E.			53.04			27.7	27.6
Mean	E.	17	38	53.045	−24	38	27.52	26.80

O. A. 17155

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	39	8.50	−22	50	47.3	47.2
12	E.			8.52			46.6	46.3
July 22	E.			8.49			46.7	46.1
Aug. 7	E.			8.52			45.8	45.9
Mean	E.	17	39	8.508	−22	50	46.60	46.38

Lalande 32491

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	17	43	57.83	−24	10	30.7	30.3
Aug. 2	E.			57.86			30.7	30.5
4	E.			57.89			31.2	31.0
Aug. 7	E.			57.81			30.4	30.5
Mean	E.	17	43	57.848	−24	10	30.75	30.58

O. A. 17263

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	44	45.31	−21	54	6.3	6.8
12	E.			45.37			5.6	6.0
July 22	E.			45.26			6.4	5.7
Aug. 8	E.			45.31			6.6	7.6
Mean	E.	17	44	45.312	−21	54	6.22	6.52

Mayer 717

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	17	45	10.90	−22	53	27.5	27.4
Aug. 2	E.			10.88			27.8	27.3
4	E.			10.87			27.4	27.4
Aug. 7	E.			10.90			26.4	27.1
Mean	E.	17	45	10.888	−22	53	27.28	27.30

63 Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	48	52.08	−24	52	3.4	5.8
12	E.			52.15			2.8	4.2
July 22	E.			52.06			3.8	3.3
Aug. 7	E.			52.04			3.0	4.1
Mean	E.	17	48	52.082	−24	52	3.25	4.35

Mayer 723

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	17	50	27.33	−21	56	22.9	22.5
Aug. 2	E.			27.36			23.8	22.6
4	E.			27.37			22.9	21.8
Aug. 8	E.			27.35			23.1	22.6
Mean	E.	17	50	27.352	−21	56	23.18	22.38

Lalande 32742

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	50	31.77	−23	22	27.4	28.9
12	E.			31.83			27.2	28.7
July 22	E.			31.81			27.4	27.9
Aug. 7	E.			31.79			27.2	28.4
Mean	E.	17	50	31.800	−23	22	27.30	28.48

4 Sagittarii

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	53	48.51	−23	48	27.0	26.9
12	E.			48.54			26.2	25.8
July 22	E.			48.51			25.6	25.9
Aug. 8	E.			48.53			26.5	26.7
Mean	E.	17	53	48.522	−23	48	26.32	26.32

Circle A. B.

O. A. 17449

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	17	53	57.52	−25	4	45.3	47.1
Aug. 4	E.			57.52			46.6	46.5
Aug. 7	E.			57.46			44.2	46.4
Mean	E.	17	53	57.500	−25	4	45.37	46.67

Mayer 728

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	55	58.13	−22	46	40.3	41.2
12	E.			58.15			40.2	40.1
July 22	E.			58.16			41.3	40.5
Aug. 7	E.			58.13			40.4	40.8
Aug. 8	E.			58.17			41.2	41.1
Mean	E.	17	55	58.148	−22	46	40.68	40.74

Piazzi XVII, 342

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	17	59	9.89	−24	24	13.7	15.4
12	E.			9.91			12.9	14.6
July 22	E.			9.90			14.1	14.9
Aug. 4	E.			9.89			13.3	14.8
Aug. 7	E.			9.88			13.3	14.2
Mean	E.	17	59	9.894	−24	24	13.46	14.78

Mayer 734

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	1	18.67	−21	27	16.2	15.4
12	E.			18.69			15.0	14.4
July 22	E.			18.70			14.9	14.7
Aug. 8	E.			18.65			15.2	15.0
Mean	E.	18	1	18.678	−21	27	15.32	14.88

C. Z. XVIII.11

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	18	1	48.30	−23	6	58.5	59.1
Aug. 4	E.			48.35			58.8	59.1
Aug. 7	E.			48.31			58.2	58.8
Mean	E.	18	1	48.320	−23	6	58.50	59.00

Bradley 2276

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	5	44.54	−23	43	16.1	17.0
12	E.			44.51			16.1	16.7
July 22	E.			44.51			16.1	16.3
Aug. 4	E.			44.47			16.5	16.3
Aug. 7	E.			44.53			16.0	16.8
Mean	E.	18	5	44.512	−23	43	16.16	16.62

μ Sagittarii

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	7	54.13	−21	5	6.7	5.5
12	E.			54.13			5.9	4.8
22	E.			54.10			6.7	5.5
July 31	E.			54.14			6.3	5.8
Aug. 2	E.			54.16			6.2	5.9
4	E.			54.19			6.2	5.9
7	E.			54.16			6.0	5.9
8	E.			.....			6.0	5.7
28	W.			54.12			4.6	5.6
29	W.			54.15			5.1	6.0
30	W.			54.09			4.6	6.2
Aug. 31	W.			54.16			4.9	5.6
Sept. 1	W.			54.13			4.1	5.7
Sept. 5	W.			54.18			4.3	5.7
Means	W.	18	7	54.138	−21	5	4.60	5.80
	E.			54.144			6.25	5.62

Circle A. B.

δ Sagittarii

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	14	43.23	−29	52	10.4	10.3
12	E.			43.21			10.7	10.0
22	E.			43.20			10.3	11.5
July 31	E.			43.20			10.5	10.7
Aug. 2	E.			43.18			11.1	10.6
4	E.			43.17			10.6	9.2
7	E.			43.19			10.9	10.8
Aug. 8	E.			.....			10.4	10.9
Mean	E.	18	14	43.197	−29	52	10.61	10.50

λ Sagittarii

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	21	55.39	−25	28	33.5	34.8
12	E.			55.36			34.0	34.3
22	E.			55.42			33.7	33.5
July 31	E.			55.38			33.9	34.1
Aug. 2	E.			55.38			33.4	34.1
4	E.			55.36			33.7	34.3
7	E.			55.36			33.6	33.7
8	E.			55.31			33.6	33.9
28	W.			55.35			35.3	33.5
29	W.			55.36			34.5	32.8
30	W.			55.35			34.9	32.7
Aug. 31	W.			55.36			34.0	33.2
Sept. 1	W.			55.35			34.7	33.1
Sept. 5	W.			55.32			34.5	33.1
Means	W.	18	21	55.348	−25	28	34.65	33.07
	E.			55.370			33.68	34.09

24 Sagittarii

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	27	54.29	−24	6	20.4	21.7
12	E.			54.27			20.5	20.7
July 31	E.			54.28			19.7	20.4
Aug. 4	E.			54.25			19.2	18.6
28	W.			54.26			19.8	20.5
29	W.			54.28			19.8	19.4
Aug. 30	W.			54.26			19.9	19.2
Means	W.	18	27	54.267	−24	6	19.83	19.70
	E.			54.272			19.95	20.35

O. A. 18413

1902	Cl.	h	m	s	°	′	″	″
Aug. 4	E.	18	29	26.55	−22	10	3.1	3.8
7	E.			26.52			3.9	3.3
8	E.			26.57			3.6	4.5
29	W.			26.51			3.9	5.1
30	W.			26.55			3.5	4.9
Aug. 31	W.			26.59			2.5	5.1
Means	W.	18	29	26.550	−22	10	3.30	5.03
	E.			26.547			3.53	3.87

Bradley 2332

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	32	2.33	−21	28	45.2	44.4
12	E.			2.38			44.5	43.5
July 31	E.			2.36			45.4	43.9
Aug. 28	W.			2.34			44.1	44.8
29	W.			2.35			44.1	44.1
Aug. 30	W.			2.37			43.5	44.0
Means	W.	18	32	2.353	−21	28	43.90	44.30
	E.			2.357			45.03	43.93

Bradley 2333

1902	Cl.	h	m	s	°	′	″	″
Aug. 4	E.	18	32	33.12	−23	35	18.4	19.7
7	E.			33.13			19.1	20.3
8	E.			33.11			19.9	21.0
Aug. 31	W.			33.14			19.3	19.3
Sept. 1	W.			33.12			19.3	19.6
Sept. 5	W.			33.12			18.5	19.6
Means	W.	18	32	33.127	−23	35	19.03	19.50
	E.			33.120			19.13	20.33

Circle A. B.

26 Sagittarii

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	35	53.00	—23	55	29.8	30.8
12	E.			52.97			29.6	30.5
July 31	E.			53.05			29.7	30.6
Aug. 4	E.			53.03			29.4	29.9
28	W.			53.04			29.3	29.7
29	W.			52.99			29.4	30.0
Aug. 30	W.			53.01			29.4	28.4
Means	W.	18	35	53.013	—23	55	29.37	29.37
	E.			53.012			29.62	30.45

O. A. 18582

1902	Cl.	h	m	s	°	′	″	″
Aug. 4	E.	18	37	25.66	—22	30	22.4	22.8
7	E.			25.71			22.5	22.5
8	E.			25.76			22.9	23.0
Aug. 31	W.			25.73			23.2	24.2
Sept. 1	W.			25.73			23.5	23.7
Sept. 5	W.			25.73			22.2	22.7
Means	W.	18	37	25.730	—22	30	22.97	23.53
	E.			25.710			22.60	22.77

Piazzi XVIII, 155

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	38	48.14	—25	6	33.8	35.2
12	E.			48.10			34.3	34.4
July 31	E.			48.16			34.1	34.4
Aug. 28	W.			48.15			33.7	34.0
29	W.			48.13			34.1	33.5
Aug. 30	W.			48.15			34.2	33.1
Means	W.	18	38	48.143	—25	6	34.00	33.53
	E.			48.133			34.07	34.67

28 Sagittarii

1902	Cl.	h	m	s	°	′	″	″
Aug. 4	E.	18	40	26.01	—22	29	41.5	41.5
7	E.			26.01			42.5	41.7
8	E.			26.03			41.2	41.7
Aug. 31	W.			26.06			41.6	42.6
Sept. 1	W.			26.08			41.3	43.7
Sept. 5	W.			26.09			42.0	42.7
Means	W.	18	40	26.077	—22	29	41.63	43.00
	E.			26.017			41.73	41.63

O. A. 18667

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	41	58.84	—23	21	48.1	49.1
12	E.			58.90			47.3	49.0
July 31	E.			58.95			48.5	48.5
Aug. 28	W.			58.95			50.0	50.0
29	W.			58.89			49.7	50.3
Aug. 30	W.			58.92			50.1	50.1
Means	W.	18	41	58.920	—23	21	49.93	50.13
	E.			58.897			47.97	48.87

30 Sagittarii

1902	Cl.	h	m	s	°	′	″	″
Aug. 4	E.	18	44	57.05	—22	16	27.9	28.8
7	E.			57.04			28.2	28.9
8	E.			57.07			28.2	28.2
28	W.			57.05			27.1	28.5
29	W.			57.01			27.2	27.9
Aug. 30	W.			57.08			27.0	27.6
Means	W.	18	44	57.047	-22	16	27.10	28.00
	E.			57.053			28.10	28.63

Circle A. B.

Lalande 35010

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	45	51.64	—24	46	9.9	10.9
12	E.			51.58			10.7	10.4
July 31	E.			51.67			10.4	10.7
Aug. 31	W.			51.64			10.6	10.3
Sept. 5	W.			51.65			10.7	10.6
Means	W.	18	45	51.645	—24	46	10.65	10.45
	E.			51.630			10.33	10.67

ν^1 Sagittarii

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	48	15.20	—22	51	55.1	56.8
12	E.			15.17			55.4	56.6
July 31	E.			15.22			55.1	56.2
Aug. 4	E.			15.19			54.9	56.6
28	W.			15.17			56.6	57.8
29	W.			15.15			56.4	57.4
Aug. 30	W.			15.18			56.6	56.8
Means	W.	18	48	15.167	—22	51	56.53	57.33
	E.			15.195			55.12	56.55

C. P. D.—24° 6555

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	51	11.57	—23	59	36.6	36.9

ξ Sagittarii

1902	Cl.	h	m	s	°	′	″	″
July 12	E.	18	51	53.06	—21	14	8.6	9.2
July 31	E.			53.03			8.8	8.6
Aug. 4	E.			52.99			8.3	9.5
28	W.			53.05			7.7	9.1
29	W.			53.06			7.6	8.5
Aug. 30	W.			53.01			7.5	9.3
Means	W.	18	51	53.040	—21	14	7.60	8.97
	E.			53.027			8.57	9.10

Mayer 779

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	55	43.34	—22	49	60.5	61.4
July 12	E.			43.30			60.5	60.9
Aug. 4	E.			43.26			60.1	60.7
28	W.			43.31			59.9	62.1
29	W.			43.31			61.2	61.8
Aug. 30	W.			43.25			60.6	61.7
Means	W.	18	55	43.290	—22	50	0.57	1.87
	E.			43.300			0.37	1.00

o Sagittarii

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	18	58	48.71	—21	53	6.8	7.9
12	E.			48.64			6.6	7.3
July 31	E.			48.68			5.9	6.7
Aug. 28	W.			48.66			6.3	8.0
29	W.			48.66			7.0	7.6
Aug. 30	W.			48.62			6.9	6.7
Means	W.	18	58	48.647	—21	53	6.73	7.43
	E.			48.677			6.43	7.30

Lalande 35745

1902	Cl.	h	m	s	°	′	″	″
Aug. 4	E.	19	2	49.20	—23	20	39.6	39.9
7	E.			49.24			38.3	39.2
8	E.			49.23			40.1	39.4
28	W.			49.20			40.5	40.3
29	W.			49.22			40.3	40.3
Aug. 30	W.			49.22			41.0	40.7
Means	W.	19	2	49.213	-23	20	40.60	40.43
	E.			49.223			39.33	39.50

Circle A. B.

O. A. 19141

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	19	3	37.83	—22	32	1.0	3.1
July 12	E.			37.84			0.7	1.9
Aug. 31	W.			37.88			1.3	2.7
Sept. 1	W.			37.83			2.5	2.9
Sept. 5	W.			37.86			1.1	2.5
Means	W.	19	3	37.857	—22	32	1.63	2.70
	E.			37.835			0.85	2.50

π Sagittarii

1902	Cl.	h	m	s	°	′	″	″
July 31	E.	19	3	56.16	21	10	46.5	46.0
Aug. 4	E.			56.15			46.8	45.7
7	E.			56.19			46.9	45.7
8	E.			56.17			47.1	45.5
28	W.			56.19			46.4	46.7
Aug. 29	W.			56.18			46.9	47.1
Means	W.	19	3	56.185	—21	10	46.65	46.90
	E.			56.168			46.82	45.72

Lalande 36016

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	19	8	16.77	—22	13	38.0	37.9
12	E.			16.73			37.5	38.0
July 31	E.			16.74			38.6	36.7
Aug. 31	W.			16.74			37.3	39.0
Sept. 1	W.			16.76			37.6	39.2
Sept. 5	W.			16.81			37.3	39.4
Means	W.	19	8	16.770	—22	13	37.40	39.20
	E.			16.747			38.03	37.53

ψ Sagittarii

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	19	9	31.90	—25	25	32.2	....
12	E.			31.92			33.1	33.9
July 31	E.			31.93			32.5	33.8
Aug. 4	E.			31.92			33.1	33.6
7	E.			31.92			32.1	33.1
8	E.			31.91			32.7	32.6
28	W.			31.94			32.3	32.9
29	W.			31.96			32.7	32.5
30	W.			31.90			33.0	32.6
Aug. 31	W.			31.93			32.5	32.5
Sept. 1	W.			31.93			33.6	33.2
4	W.			31.93			33.7	34.0
Sept. 5	W.			31.99			33.1	33.9
Means	W.	19	9	31.940	—25	25	32.99	33.09
	E.			31.917			32.62	33.40

d Sagittarii

1902	Cl.	h	m	s	°	′	″	″
July 11	E.	19	11	54.06	—19	7	39.4	39.0
12	E.			54.12			39.1	39.2
July 31	E.			54.11			39.3	39.0
Aug. 4	E.			54.09			38.6	39.8
7	E.			54.07			39.0	38.4
8	E.			54.14			39.7	39.2
28	W.			54.06			37.9	37.9
29	W.			54.05			37.8	38.3
30	W.			54.10			39.0	38.4
Aug. 31	W.			54.11			38.6	39.1
Sept. 1	W.			54.10			38.1	38.5
4	W.			54.10			38.7	39.2
Sept. 5	W.			54.11			39.1	39.6
Means	W.	19	11	54.090	—19	7	38.46	38.71
	E.			54.098			39.18	39.10

Circle A. B.

h Sagittarii

1902	Cl.	h	m	s	°	′	A. ″	B. ″
July 11	E.	19	30	44.65	—25	5	59.6	60.8
12	E.			44.69			60.4	61.6
July 31	E.			44.65			60.5	60.9
Aug. 4	E.			44.67			59.7	60.5
7	E.			44.64			60.6	59.4
8	E.			44.60			59.2	60.6
28	W.			44.65			60.9	60.6
29	W.			44.67			60.7	60.2
30	W.			44.72			60.2	60.9
Aug. 31	W.			44.65			60.5	61.0
Sept. 4	W.			44.64			59.6	59.5
Sept. 5	W.			44.63			60.1	60.6
Means	W.	19	30	44.660	—25	6	0.33	0.47
	E.			44.650			0.00	0.63

f Sagittarii

1902	Cl.	h	m	s	°	′	A. ″	B. ″
July 11	E.	19	40	38.77	—19	59	49.3	47.5
Aug. 28	W.			38.76			48.5	48.6
29	W.			38.78			48.0	48.8
Aug. 30	W.			38.77			47.8	49.0
Means	W.	19	40	38.770	—19	59	48.10	48.80
	E.			38.77			49.3	47.5

C. P. D.—21° 7493

1902	Cl.	h	m	s	°	′	A. ″	B. ″
July 12	E.	19	40	42.06	—21	45	40.2	40.4
July 31	E.			42.13			41.5	39.9
Aug. 4	E.			42.13			40.1	39.8
Aug. 31	W.			42.19			39.0	40.5
Sept. 4	W.			42.15			38.1	40.8
Sept. 5	W.			42.11			38.1	40.3
Means	W.	19	40	42.150	—21	45	38.40	40.53
	E.			42.107			40.60	40.03

Lalande 37659

1902	Cl.	h	m	s	°	′	A. ″	B. ″
July 11	E.	19	44	25.64	—23	1	33.8	35.0
12	E.			25.59			33.2	34.4
July 31	E.			25.62			34.2	35.0
Aug. 4	E.			25.63			34.4	34.5
28	W.			25.63			35.1	35.5
29	W.			25.61			34.6	34.6
Aug. 30	W.			25.57			35.2	35.2
Means	W.	19	44	25.603	—23	1	34.97	35.10
	E.			25.620			33.90	34.72

O. A. 20018

1902	Cl.	h	m	s	°	′	A. ″	B. ″
July 12	E.	19	46	8.65	—19	56	43.6	43.6
July 31	E.			8.67			45.1	43.6
Aug. 4	E.			8.64			44.8	44.0
28	W.			8.65			....	43.4
29	W.			8.65			42.5	43.9
30	W.			8.64			43.4	44.6
Aug. 31	W.			8.76			44.0	44.5
Means	W.	19	46	8.675	—19	56	43.30	44.10
	E.			8.653			44.50	43.73

Lalande 38048

1902	Cl.	h	m	s	°	′	A. ″	B. ″
July 11	E.	19	53	45.74	—22	28	38.3	37.6
12	E.			45.75			37.3	37.8
July 31	E.			45.83			38.1	36.2
Aug. 4	E.			45.71			38.1	37.2
28	W.			45.79			36.1	37.5
29	W.			45.79			36.6	36.8
Aug. 30	W.			45.70			37.1	37.0
Means	W.	19	53	45.760	—22	28	36.60	37.10
	E.			45.758			37.95	37.20

Circle A. B.

Lalande 38096

1902	Cl.	h	m	s	°	′	A. ″	B. ″
July 12	E.	19	54	48.31	—20	7	30.6	30.0
July 31	E.			48.35			32.5	30.5
Aug. 4	E.			48.31			30.6	27.6
Aug. 31	W.			48.29			29.6	31.0
Sept. 4	W.			48.22			28.0	28.8
Sept. 5	W.			48.22			28.5	29.8
Means	W.	19	54	48.243	—20	7	28.70	29.87
	E.			48.323			31.23	29.37

62 Sagittarii

1902	Cl.	h	m	s	°	′	A. ″	B. ″
July 11	E.	19	56	38.01	—27	58	56.1	56.8
12	E.			37.96			55.7	55.6
July 31	E.			37.98			56.7	55.8
Aug. 4	E.			37.96			56.2	55.8
11	E.			37.92			55.1	54.9
12	E.			37.98			55.9	55.4
19	E.			37.97			55.6	55.4
21	E.			38.01			55.3	55.7
22	E.			38.02			55.5	54.8
24	E.			38.02			55.3	55.3
25	E.			37.98			55.4	55.2
28	W.			37.98			57.4	55.6
29	W.			38.02			57.8	55.6
30	W.			37.98			57.2	56.2
Aug. 31	W.			37.99			57.3	56.2
Sept. 4	W.			38.02			58.0	56.8
Sept. 5	W.			38.00			57.7	56.2
Means	W.	19	56	37.998	—27	58	57.57	56.10
	E.			37.983			55.71	55.52

4 Capricorni

1902	Cl.	h	m	s	°	′	A. ″	B. ″
July 11	E.	20	12	15.99	—22	6	47.2	46.6
July 12	E.			16.01			47.0	46.5
Aug. 4	E.			16.05			48.1	47.3
11	E.			16.04			46.9	46.6
12	E.			16.03			47.0	46.2
19	E.			16.02			46.9	46.3
21	E.			16.04			47.2	46.3
22	E.			16.02			46.3	46.3
24	E.			16.03			47.0	46.2
25	E.			16.02			47.5	46.4
28	W.			16.06			44.6	46.6
29	W.			.....			45.4	47.1
30	W.			16.02			45.7	45.6
Aug. 31	W.			16.00			45.7	46.7
Sept. 4	W.			16.04			45.7	47.4
Sept. 5	W.			16.01			44.2	44.6
Means	W.	20	12	16.026	—22	6	45.22	46.33
	E.			16.025			47.11	46.47

β Capricorni

1902	Cl.	h	m	s	°	′	A. ″	B. ″
Aug. 11	E.	20	15	30.41	—15	5	28.5	29.3
12	E.			30.33			27.8	29.0
19	E.			30.37			28.1	29.2
21	E.			30.32			28.1	29.0
22	E.			30.34			28.7	29.4
24	E.			30.33			28.4	29.1
25	E.			30.38			27.9	29.0
28	W.			30.35			27.6	27.5
29	W.			30.37			26.9	27.1
30	W.			30.33			28.0	28.1
Aug. 31	W.			30.40			27.6	27.2
Sept. 4	W.			30.37			26.7	26.9
Sept. 5	W.			30.35			27.8	28.5
Means	W.	20	15	30.362	—15	5	27.43	27.55
	E.			30.354			28.21	29.14

Circle A. B.

π Capricorni

1902	Cl.	h	m	s	°	′	A. ″	B. ″
July 11	E.	20	21	42.74	—18	31	58.6	59.5
July 12	E.			42.71			58.7	59.0
Aug. 4	E.			42.71			57.7	58.8
28	W.			42.76			59.8	60.3
29	W.			42.72			60.1	59.7
30	W.			42.73			59.8	59.8
Aug. 31	W.			42.76			60.6	59.2
Sept. 4	W.			42.73			59.1	59.4
Sept. 5	W.			42.66			59.5	59.1
Means	W.	20	21	42.727	—18	31	59.82	59.58
	E.			42.720			58.33	59.10

o Capricorni

1902	Cl.	h	m	s	°	′	A. ″	B. ″
Aug. 11	E.	20	24	16.83	—18	54	26.4	....
12	E.			16.90			26.5	28.0
19	E.			16.87			28.2	28.0
28	W.			16.88			28.1	28.0
29	W.			16.86			27.5	27.2
Aug. 30	W.			16.92			27.3	27.9
Means	W.	20	24	16.887	—18	54	27.63	27.70
	E.			16.867			27.03	28.00

B. D.—21° 5752

1902	Cl.	h	m	s	°	′	A. ″	B. ″
Aug. 21	E.	20	27	44.94	—21	13	50.5	49.3
22	E.			44.94			49.8	48.1
24	E.			44.87			49.5	49.9
25	E.			44.90			49.7	47.8
28	W.			44.92			48.7	49.8
29	W.			44.93			48.1	49.8
Aug. 30	W.			44.98			49.4	50.0
Means	W.	20	27	44.943	—21	13	48.73	49.87
	E.			44.912			49.88	48.78

Lalande 39577

1902	Cl.	h	m	s	°	′	A. ″	B. ″
Aug. 11	E.	20	28	49.60	—19	43	56.3	55.7
12	E.			49.63			56.9	57.2
19	E.			49.64			57.8	56.8
Aug. 31	W.			49.59			56.7	57.7
Sept. 4	W.			49.63			56.8	57.8
Sept. 5	W.			49.61			56.3	57.7
Means	W.	20	28	49.610	—19	43	56.60	57.73
	E.			49.623			57.00	56.57

O. A. 20628

1902	Cl.	h	m	s	°	′	A. ″	B. ″
Aug. 21	E.	20	29	49.76	—18	7	26.6	26.8
22	E.			49.80			26.5	26.4
24	E.			49.82			27.1	27.0
25	E.			49.73			27.2	26.6
28	W.			49.75			26.3	26.9
29	W.			49.76			25.5	25.9
Aug. 30	W.			49.86			25.6	27.1
Means	W.	20	29	49.790	—18	7	25.80	26.63
	E.			49.778			26.85	26.70

Mayer 871

1902	Cl.	h	m	s	°	′	A. ″	B. ″
Aug. 11	E.	20	30	46.29	—20	55	26 6	26.0
12	E.			46.26			28.1	27.2
19	E.			46.29			28.4	26.1
Aug. 31	W.			46.23			26.1	27.8
Sept. 4	W.			46.26			25.4	27.1
Sept. 5	W.			46.25			24.4	27.3
Means	W.	20	30	46.247	—20	55	25.30	27.40
	E.			46.280			27.70	26.43

O. A. 20696

					Circle		A.	B.
1902	Cl.	h	m	s	°	′	″	″
Aug. 21	E.	20	33	55.23	−20	0	....	57.0
22	E.			55.23			58.0	57.8
24	E.			55.31			58.8	58.3
25	E.			55.29			58.6	57.5
28	W.			55.34			57.9	58.2
29	W.			55.24			58.2	57.8
Aug. 30	W.			55.26			58.5	59.0
Means	W.	20	33	55.280	−20	0	58.20	58.33
	E.			55.265			58.47	57.65

υ Capricorni

1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	20	34	28.31	−18	29	1.7	1.4
12	E.			28.35			2.1	1.9
19	E.			28.32			1.1	0.6
Aug. 31	W.			28.28			1.5	1.3
Sept. 4	W.			28.30			1.6	1.0
Sept. 5	W.			28.27			2.0	0.8
Means	W.	20	34	28.283	−18	29	1.70	1.03
	E.			28.327			1.63	1.30

O. A. 20754

1902	Cl.	h	m	s	°	′	″	″
Aug. 21	E.	20	36	25.31	−21	37	....	27.1
22	E.			25.33			27.7	26.8
24	E.			25.31			27.3	26.8
25	E.			25.32			26.5	25.7
28	W.			25.32			25.1	26.1
29	W.			25.33			24.7	26.3
Aug. 31	W.			25.36			25.5	26.9
Means	W.	20	36	25.337	−21	37	25.10	26.43
	E.			25.318			27.17	26.60

Lalande 39981

1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	20	38	18.72	−19	41	44.6	44.2
12	E.			18.59			43.0	43.6
19	E.			18.66			43.2	42.8
28	W.			18.65			45.1	44.2
29	W.			18.62			44.2	44.3
Aug. 30	W.			18.64			45.1	44.7
Means	W.	20	38	18.637	−19	41	44.80	44.40
	E.			18.657			43.60	43.53

B. D. −17° 6081

1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	20	41	2.68	−17	31	7.8	7.5
12	E.			2.66			7.4	7.6
19	E.			2.62			8.3	7.3
28	W.			2.60			8.4	7.4
29	W.			2.62			7.9	8.1
Aug. 30	W.			2.64			9.5	9.1
Means	W.	20	41	2.620	−17	31	8.60	8.20
	E.			2.653			7.83	7.47

B. D. −19° 5925

1902	Cl.	h	m	s	°	′	″	″
Aug. 21	E.	20	41	48.18	−18	58	45.7	45.6
22	E.			48.22			45.5	45.4
24	E.			48.18			45.9	46.0
25	E.			48.19			45.8	44.2
Aug. 31	W.			48.20			45.5	44.8
Sept. 4	W.			48.14			43.9	44.2
Sept. 5	W.			48.12			45.7	44.7
Means	W.	20	41	48.153	−18	58	45.03	44.57
	E.			48.192			45.72	45.30

B. D. −21° 5840

					Circle		A.	B.
1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	20	43	35.29	−20	59	16.4	15.1
12	E.			35.26			16.5	15.2
19	E.			35.28			18.2	16.2
28	W.			35.28			15.0	16.5
29	W.			35.27			15.4	16.2
Aug. 30	W.			35.35			16.7	16.7
Means	W.	20	43	35.300	−20	59	15.70	16.47
	E.			35.277			17.03	15.50

Mayer 881

1902	Cl.	h	m	s	°	′	″	″
Aug. 21	E.	20	43	47.10	−18	23	50.4	51.5
22	E.			47.11			51.4	51.4
24	E.			47.10			49.8	52.4
25	E.			47.09			51.2	50.8
Aug. 31	W.			47.07			51.2	51.0
Sept. 4	W.			47.09			50.8	53.2
Sept. 5	W.			47.02			50.1	51.0
Means	W.	20	43	47.060	−18	23	50.70	51.73
	E.			47.100			50.70	51.52

Lalande 40257

1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	20	46	39.86	−20	0	39.4	37.7
12	E.			39.93			39.5	38.7
19	E.			39.92			40.1	39.1
28	W.			39.91			39.8	39.8
29	W.			39.88			39.2	39.4
Aug. 30	W.			39.92			40.8	40.0
Means	W.	20	46	39.903	−20	0	39.93	39.73
	E.			39.903			39.67	38.50

Lalande 40311

1902	Cl.	h	m	s	°	′	″	″
Aug. 21	E.	20	47	57.17	−19	28	62.4	60.7
22	E.			57.21			60.6	60.1
24	E.			57.19			62.2	61.6
25	E.			57.20			62.6	60.8
Aug. 31	W.			57.16			61.5	60.1
Sept. 4	W.			57.13			60.9	60.1
Sept. 5	W.			57.14			60.4	59.9
Means	W.	20	47	57.143	−19	29	0.93	0.03
	E.			57.192			1.95	0.80

19 Capricorni

1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	20	49	15.67	−18	17	40.3	39.9
12	E.			15.66			41.0	40.9
19	E.			15.70			40.9	40.2
28	W.			15.63			41.0	40.2
29	W.			15.64			39.4	39.8
Aug. 30	W.			15.72			40.4	39.9
Means	W.	20	49	15.663	−18	17	40.27	39.97
	E.			15.677			40.73	40.33

20 Capricorni

1902	Cl.	h	m	s	°	′	″	″
Aug. 21	E.	20	54	2.12	−19	24	55.4	54.7
22	E.			2.13			55.3	55.4
24	E.			2.12			56.4	56.9
25	E.			2.09			55.7	55.2
Aug. 31	W.			2.06			55.0	55.4
Sept. 4	W.			2.08			53.2	54.5
Sept. 5	W.			2.09			53.4	54.9
Means	W.	20	54	2.077	−19	24	53.87	54.93
	E.			2.115			55.70	55.55

21 Capricorni

					Circle		A.	B.
1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	20	55	20.89	−17	54	45.9	47.0
12	E.			20.86			46.2	47.7
19	E.			20.92			48.3	47.7
28	W.			20.88			46.5	47.5
29	W.			20.81			46.7	47.3
Aug. 30	W.			20.91			48.0	47.5
Means	W.	20	55	20.867	−17	54	47.07	47.43
	E.			20.890			46.80	47.47

B. D. −18° 5849

1902	Cl.	h	m	s	°	′	″	″
Aug. 21	E.	20	58	29.95	−18	29	56.9	56.7
22	E.			29.92			55.9	56.2
24	E.			29.90			57.5	57.5
25	E.			29.91			56.7	56.8
28	W.			29.91			57.2	58.1
29	W.			29.92			55.6	56.8
Aug. 30	W.			29.98			57.5	57.3
Means	W.	20	58	29.937	−18	29	56.77	57.40
	E.			29.920			56.75	56.80

θ Capricorni

1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	21	0	26.41	−17	37	21.0	20.9
12	E.			26.33			20.4	20.6
19	E.			26.36			21.2	20.6
28	W.			26.37			20.0	20.3
29	W.			26.35			19.4	19.5
Aug. 30	W.			26.32			20.7	20.4
Means	W.	21	0	26.347	17	37	20.03	20.07
	E.			26.367			20.87	20.70

Piazzi XX, 462

1902	Cl.	h	m	s	°	′	″	″
Aug. 21	E.	21	1	56.74	−19	28	50.2	49.1
22	E.			56.74			49.8	47.9
24	E.			56.74			51.1	49.7
25	E.			56.73			49.6	48.1
Aug. 31	W.			56.70			49.3	49.1
Sept. 4	W.			56.67			48.1	47.8
Sept. 5	W.			56.69			48.5	48.5
Means	W.	21	1	56.687	−19	28	48.63	48.47
	E.			56.738			50.18	48.70

Piazzi XX, 487

1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	21	4	41.65	−16	5	60.0	59.9
12	E.			41.59			58.5	59.0
30	W.			41.59			58.9	58.6
Aug. 31	W.			41.59			59.7	59.0
Means	W.	21	4	41.590	−16	5	59.30	58.80
	E.			41.620			59.25	59.45

Lalande 41000

1902	Cl.	h	m	s	°	′	″	″
Aug. 22	E.	21	4	53.67	−17	21	20.9	21.0
25	E.			53.68			21.4	20.9
28	W.			53.66			22.4	22.4
Aug. 29	W.			53.66			21.8	21.2
Means	W.	21	4	53.660	−17	21	22.10	21.80
	E.			53.675			21.15	20.95

O. A. 21183

1902	Cl.	h	m	s	°	′	″	″
Aug. 19	E.	21	5	1.18	−18	43	44.3	43.4
Aug. 24	E.			1.21			45.2	45.3
Sept. 4	W.			1.21			44.8	44.5
Sept. 5	W.			1.18			45.2	46.3
Means	W.	21	5	1.195	−18	43	45.00	45.40
	E.			1.195			44.75	44.35

Circle A. B.

Lalande 41191

1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	21	9	37.72	−17	45	2.3	2.9
12	E.			37.75			2.0	2.2
19	E.			37.72			1.9	2.1
28	W.			37.70			2.9	2.9
29	W.			37.64			1.8	2.6
Aug. 30	W.			37.69			1.8	2.5
Means	W.	21	9	37.677	−17	45	2.17	2.67
	E.			37.730			2.07	2.40

ι Capricorni

1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	21	16	47.45	−17	15	6.9	7.0
12	E.			47.47			6.8	7.6
19	E.			47.48			7.5	7.9
21	E.			47.45			7.5	7.7
22	E.			47.51			7.7	6.7
24	E.			47.53			6.5	7.1
25	E.			47.48			7.3	7.7
28	W.			47.47			6.9	7.9
29	W.			47.44			6.9	7.9
30	W.			47.46			7.3	7.6
Aug. 31	W.			47.46			6.7	7.0
Sept. 4	W.			47.42			6.3	6.9
Sept. 5	W.			47.41			6.8	7.7
Means	W.	21	16	47.443	−17	15	6.82	7.50
	E.			47.481			7.17	7.39

γ Capricorni

1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	21	34	39.74	−17	6	18.8	18.8
12	E.			39.76			18.4	18.7
19	E.			39.73			19.0	18.8
21	E.			39.73			19.0	17.9
22	E.			39.69			18.5	18.7
24	E.			39.71			18.7	19.1
25	E.			39.73			18.5	18.7
28	W.			39.74			18.2	18.6
29	W.			39.77			18.6	19.0
30	W.			39.79			18.3	18.9
Aug. 31	W.			39.74			18.1	18.2
Sept. 4	W.			39.72			18.2	18.4
Sept. 5	W.			39.73			18.0	18.3
Means	W.	21	34	39.748	−17	6	18.23	18.57
	E.			39.727			18.70	18.67

κ Capricorni

1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	21	37	11.25	−19	18	46.7	46.2
12	E.			11.26			47.0	46.5
19	E.			11.27			47.0	45.9
21	E.			11.25			46.6	46.1
22	E.			11.25			46.8	46.5
24	E.			11.25			47.1	45.6
25	E.			11.25			47.3	45.8
28	W.			11.23			47.2	45.9
29	W.			11.23			47.7	46.9
30	W.			11.27			47.3	46.3
Aug. 31	W.			11.25			47.3	46.6
Sept. 4	W.			11.24			47.0	46.2
Sept. 5	W.			11.28			47.3	46.2
Means	W.	21	37	11.250	−19	18	47.30	46.35
	E.			11.254			46.93	46.09

Circle A. B.

δ Capricorni

1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	21	41	37.99	−16	34	19.6	20.4
12	E.			37.98			20.0	19.4
19	E.			37.96			18.9	20.1
21	E.			38.01			19.4	20.0
22	E.			37.99			19.4	20.3
24	E.			37.96			19.5	20.3
25	E.			37.99			19.2	19.9
28	W.			37.98			20.5	20.5
29	W.			38.01			21.1	20.0
30	W.			37.97			19.6	19.8
Aug. 31	W.			37.99			19.9	19.8
Sept. 4	W.			38.05			20.4	20.6
Sept. 5	W.			38.01			19.8	20.1
Means	W.	21	41	38.002	−16	34	20.22	20.13
	E.			37.983			19.43	20.06

λ Aquarii

1902	Cl.	h	m	s	°	′	″	″
Sept. 18	W.	22	47	30.14	−8	6	4.6	4.3
22	W.			30.17			3.6	4.4
23	W.			30.14			4.1	4.1
Sept. 29	W.			30.16			3.9	3.6
Oct. 1	W.			30.13			3.7	3.7
2	W.			30.14			4.0	3.9
Oct. 6	E.			30.13			5.1	4.3
Nov. 13	E.			30.14			4.2	4.0
20	E.			30.15			5.0	3.7
21	E.			30.17			4.9	4.7
Nov. 28	E.			30.15			4.7	4.5
Dec. 1	E.			30.18			4.7	4.3
Means	W.	22	47	30.147	−8	6	3.98	4.00
	E.			30.153			4.77	4.25

β Piscium

1902	Cl.	h	m	s	°	′	″	″
Sept. 18	W.	22	58	53.38	+3	17	33.0	32.7
22	W.			53.34			32.4	32.4
23	W.			53.38			32.2	32.2
Sept. 29	W.			53.39			32.4	32.3
Oct. 1	W.			53.36			32.4	32.0
2	W.			53.35			31.6	32.3
Oct. 6	E.			53.38			33.2	33.4
Nov. 13	E.			53.38			32.6	33.2
20	E.			53.38			33.0	32.9
21	E.			53.35			33.0	33.4
Nov. 28	E.			53.36			32.3	33.0
Dec. 1	E.			53.36			33.5	33.1
Means	W.	22	58	53.367	+3	17	32.33	32.32
	E.			53.368			32.93	33.17

φ Aquarii

1902	Cl.	h	m	s	°	′	″	″
Sept. 18	W.	23	9	14.85	−6	34	38.7	38.6
22	W.			14.88			39.0	38.5
23	W.			14.87			38.5	38.6
Sept. 29	W.			14.82			38.8	39.0
Oct. 1	W.			14.89			38.7	38.7
2	W.			14.89			38.0	39.1
Oct. 6	E.			14.87			38.4	39.3
Nov. 13	E.			14.85			38.8	39.6
20	E.			14.86			38.5	39.5
21	E.			14.86			38.4	39.0
Nov. 28	E.			14.87			37.7	38.9
Dec. 1	E.			14.84			38.9	39.1
Means	W.	23	9	14.867	−6	34	38.62	38.75
	E.			14.858			38.45	39.23

Circle A. B.

96 Aquarii

1902	Cl.	h	m	s	°	′	″	″
Sept. 18	W.	23	14	19.15	−5	39	35.8	35.6
22	W.			19.18			36.3	35.7
Sept. 23	W.			19.19			36.8	35.8
Oct. 6	E.			19.16			35.7	35.3
Nov. 20	E.			19.15			34.7	34.5
Nov. 28	E.			19.15			35.4	34.5
Means	W.	23	14	19.173	−5	39	36.30	35.70
	E.			19.153			35.27	34.77

Lalande 45680

1902	Cl.	h	m	s	°	′	″	″
Oct. 1	W.	23	15	11.06	−4	27	9.5	9.2
Oct. 2	W.			11.06			9.5	9.3
Nov. 13	E.			11.05			9.0	10.0
Dec. 1	E.			11.01			8.9	9.6
Means	W.	23	15	11.060	−4	27	9.50	9.25
	E.			11.030			8.95	9.80

Lalande 45698

1902	Cl.	h	m	s	°	′	″	″
Sept. 23	W.	23	15	37.76	−6	26	....	35.1
Sept. 29	W.			37.82			35.5	34.9
Nov. 21	E.			37.82			35.7	....
Nov. 28	E.			37.77			33.6	34.3
Means	W.	23	15	37.790	−6	26	35.50	35.00
	E.			37.795			34.65	34.3

Schjellerup 9616

1902	Cl.	h	m	s	°	′	″	″
Sept. 18	W.	23	16	10.59	−7	33	36.7	36.1
Sept. 22	W.			10.58			36.4	36.1
Oct. 6	E.			10.58			35.2	36.0
Nov. 20	E.			10.56			36.3	35.9
Means	W.	23	16	10.585	−7	33	36.55	36.10
	E.			10.570			35.75	35.95

B. D. −5° 5985

1902	Cl.	h	m	s	°	′	″	″
Sept. 29	W.	23	19	44.82	−5	35	3.7	3.1
Oct. 1	W.			44.82			3.1	3.4
2	W.			44.85			3.9	4.2
Oct. 6	E.			44.82			4.2	4.0
Nov. 13	E.			44.78			3.6	3.4
20	E.			44.82			4.8	3.9
Nov. 28	E.			44.74			3.5	4.1
Means	W.	23	19	44.830	−5	35	3.57	3.57
	E.			44.790			4.02	3.85

Lalande 45877

1902	Cl.	h	m	s	°	′	″	″
Sept. 18	W.	23	21	30.31	−7	8	45.4	45.0
Sept. 22	W.			30.36			46.1	45.4
Nov. 13	E.			30.39			45.7	44.8
Nov. 21	E.			30.37			46.6	46.6
Dec. 1	E.			30.37			46.3	44.8
Means	W.	23	21	30.335	−7	8	45.75	45.20
	E.			30.377			46.20	45.40

Lalande 45880

1902	Cl.	h	m	s	Circle °	′	A. ″	B. ″
Sept. 29	W.	23	21	35.73	−5	46	17.9	17.4
Oct. 1	W.			35.73			17.9	18.2
2	W.			35.73			17.8	18.0
Oct. 6	E.			35.72			18.1	18.0
Nov. 20	E.			35.73			18.9	18.3
Nov. 28	E.			35.72			17.4	17.6
Means	W.	23	21	35.730	−5	46	17.87	17.87
	E.			35.723			18.13	17.97

Mayer 997

1902	Cl.	h	m	s	Circle °	′	A. ″	B. ″
Sept. 18	W.	23	24	28.11	−5	3	59.4	60.0
22	W.			28.12			60.2	60.2
Sept. 23	W.			28.18			60.1	59.6
Nov. 21	E.			28.13			60.4	61.0
Nov. 28	E.			28.11			59.8	61.1
Dec. 1	E.			28.12			59.4	60.6
Means	W.	23	24	28.137	−5	3	59.90	59.93
	E.			28.120			59.87	60.90

Lalande 46034

1902	Cl.	h	m	s	Circle °	′	A. ″	B. ″
Sept. 29	W.	23	25	57.96	−6	49	40.2	40.3
Oct. 1	W.			57.99			40.3	40.4
2	W.			57.97			40.3	41.3
Oct. 6	E.			57.93			40.4	40.7
Nov. 13	E.			57.93			40.1	40.4
Nov. 20	E.			57.95			40.1	40.5
Means	W.	23	25	57.973	−6	49	40.27	40.67
	E.			57.937			40.20	40.53

Lalande 46137

1902	Cl.	h	m	s	Circle °	′	A. ″	B. ″
Sept. 18	W.	23	28	25.82	−4	56	31.8	31.9
22	W.			25.86			32.2	32.1
Sept. 23	W.			25.84			31.8	32.1
Oct. 6	E.			25.81			32.3	32.5
Nov. 13	E.			25.83			31.4	32.3
Nov. 20	E.			25.83			32.5	32.2
Means	W.	23	28	25.840	−4	56	31.93	32.03
	E.			25.823			32.07	32.33

λ Piscium

1902	Cl.	h	m	s	Circle °	′	A. ″	B. ″
Sept. 18	W.	23	37	2.75	+1	14	27.5	27.2
22	W.			2.73			26.7	26.7
23	W.			2.77			26.8	27.3
Sept. 29	W.			2.75			26.8	27.3
Oct. 1	W.			2.81			26.8	26.9
2	W.			2.76			25.8	26.7
Oct. 6	E.			2.71			26.0	26.8
Nov. 13	E.			2.77			26.7	27.4
20	E.			2.75			26.7	27.1
21	E.			2.75			25.9	26.8
Nov. 28	E.			2.74			26.5	26.4
Dec. 1	E.			2.75			26.4	27.2
Means	W.	23	37	2.762	+1	14	26.73	27.02
	E.			2.745			26.37	26.95

25 Piscium

1902	Cl.	h	m	s	Circle °	′	A. ″	B. ″
Sept. 18	W.	23	48	3.61	+1	32	44.7	45.9
22	W.			3.58			45.0	45.2
23	W.			3.58			45.1	45.7
Sept. 29	W.			3.62			44.8	46.1
Oct. 1	W.			3.57			45.1	45.7
2	W.			3.59			45.7	45.6
Oct. 6	E.			3.62			43.9	44.7
Nov. 13	E.			3.61			44.6	45.4
20	E.			3.58			44.6	45.2
21	E.			3.58			44.4	45.0
Nov. 28	E.			3.63			44.7	45.5
Dec. 1	E.			3.56			44.5	45.2
Means	W.	23	48	3.592	+1	32	45.07	45.70
	E.			3.597			44.45	45.17

27 Piscium

1902	Cl.	h	m	s	Circle °	′	A. ″	B. ″
Sept. 18	W.	23	53	39.37	−4	5	58.9	59.6
22	W.			39.36			58.8	58.9
23	W.			39.37			58.7	59.5
Sept. 29	W.			39.37			58.7	59.2
Oct. 1	W.			39.38			59.4	59.5
2	W.			39.34			58.6	59.1
Oct. 6	E.			39.38			58.2	58.7
Nov. 13	E.			39.32			59.0	59.4
20	E.			39.38			58.5	59.0
21	E.			39.32			58.6	58.8
Nov. 28	E.			39.36			59.2	58.5
Dec. 1	E.			39.40			58.6	58.9
Means	W.	23	53	39.365	−4	5	58.85	59.30
	E.			39.360			58.68	58.88

30 Piscium

1902	Cl.	h	m	s	Circle °	′	A. ″	B. ″
Sept. 18	W.	23	56	56.05	6	33	32.3	32.4
22	W.			56.09			31.8	31.9
23	W.			56.04			32.0	31.9
Sept. 29	W.			56.04			31.7	33.2
Oct. 1	W.			56.03			31.9	31.9
2	W.			56.07			31.5	31.8
Oct. 6	E.			56.04			30.6	31.7
Nov. 13	E.			56.07			31.1	32.3
20	E.			56.07			31.6	32.2
21	E.			56.12			30.5	31.9
Nov. 28	E.			56.03			30.9	32.4
Dec. 1	E.			56.06			31.5	32.5
Means	W.	23	56	56.053	−6	33	31.87	32.18
	E.			56.065			31.03	32.17

INDIVIDUAL RESULTS

OF

OBSERVATIONS OF STARS IN LISTS II AND III.

REDUCED TO 1902.0

[Declinations Reduced with Zenith Point Corrections from Nadir.]

Circle A. B.

33 Piscium

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	0	0	19.16	−6	15	20.5	19.1
25	W.			19.17			21.0	19.0
Nov. 26	W.			19.20			20.2	20.1
Mean	W.	0	0	19.177	−6	15	20.57	19.40

4 Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 26	W.	0	2	42.94	−3	5	39.0	39.5

α Andromedæ

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	0	3	19.21	+28	32	57.8	58.8
19	W.			19.23			56.9	57.5
Nov. 25	W.			19.23			57.9	58.1
Mean	W.	0	3	19.223	+28	32	57.53	58.13

22 Andromedæ

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	0	5	13.41	+45	31	36.1	36.0
25	W.			13.43			36.7	36.4
Nov. 26	W.			13.43			36.8	35.9
Mean	W.	0	5	13.423	+45	31	36.53	36.10

κ^2 Sculptoris

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	0	6	35.93	−28	20	45.4	43.6
Nov. 27	W.			35.96			45.5	43.4
Mean	W.	0	6	35.945	−28	20	45.45	43.50

γ Pegasi

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	0	8	11.32	+14	38	18.4	20.0
Nov. 25	W.			11.31			18.8	20.5
Mean	W.	0	8	11.315	+14	38	18.60	20.25

35 Piscium

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	0	9	55.90	+8	16	38.8	37.8

σ Andromedæ

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	0	13	12.30	+36	14	31.6	33.5

d Piscium

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	0	15	33.27	+7	38	46.6	47.4

Circle A. B.

44 Piscium

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	0	20	22.73	+1	23	50.5	52.6
19	W.			22.68			50.1	51.9
26	W.			22.68			50.3	51.0
Nov. 27	W.			22.70			50.6	51.0
Dec. 2	W.			22.76			50.0	50.9
4	W.			22.71			49.6	50.3
6	W.			22.75			49.8	49.9
7	W.			22.71			50.4	51.0
8	W.			22.73			50.4	50.9
17	E.			22.71			49.2	49.2
22	E.			22.70			49.4	49.4
27	E.			22.68			49.4	49.1
Dec. 31	E.			22.73			49.9	49.9
1902								
Jan. 3	E.			22.69			50.6	50.2
8	E.			22.74			49.3	....
Jan. 11	E.			22.70			49.7	....
Means	W.	0	20	22.717	+1	23	50.19	51.06
	E.			22.707			49.64	49.56

12 Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	0	25	2.25	−4	29	55.9	54.0
19	W.			2.26			56.4	54.8
20	W.			2.25			57.1	55.2
Nov. 26	W.			2.24			56.8	54.9
Dec. 2	W.			2.29			56.3	55.3
4	W.			2.31			56.8	54.7
6	W.			2.26			56.1	55.5
7	W.			2.27			56.0	54.8
8	W.			2.29			57.2	55.5
17	E.			2.30			54.6	55.7
22	E.			2.26			54.5	55.7
27	E.			2.22			53.9	54.9
Dec. 31	E.			2.29			55.3	55.4
1902								
Jan. 3	E.			2.29			54.5	55.6
Means	W.	0	25	2.269	−4	29	56.51	54.97
	E.			2.272			54.56	55.46

49 G. Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 27	W.	0	25	28.80	−24	19	48.1	46.9

κ Cassiopeiæ

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	0	27	25.43	+62	23	26.3	28.7
19	W.			25.43			25.8	27.4
20	W.			25.49			25.5	28.0
25	W.			25.41			25.7	27.9
Nov. 26	W.			25.43			26.4	28.0
Mean	W.	0	27	25.438	+62	23	25.94	28.00

Circle A. B.

77 G. Sculptoris

1901	Cl.	h	m	s	°	′	″	″
Nov. 27	W.	0	28	50.38	−30	4	53.9	52.4

13 Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	0	30	12.21	−4	7	56.2	53.9
19	W.			12.22			56.9	54.8
20	W.			12.21			55.2	54.4
Nov. 25	W.			12.24			56.8	55.0
Mean	W.	0	30	12.220	−4	7	56.28	54.52

ζ Cassiopeiæ

1901	Cl.	h	m	s	°	′	″	″
Nov. 26	W.	0	31	30.41	+53	21	26.8	27.3
Nov. 27	W.			30.40			25.4	27.2
Dec. 2	W.			30.45			25.9	28.1
4	W.			30.39			27.6	28.6
6	W.			30.41			27.3	28.0
7	W.			30.43			27.3	27.9
8	W.			30.45			25.7	28.1
17	E.			30.48			28.8	27.9
22	E.			30.48			29.4	28.5
27	E.			30.46			29.3	28.2
Dec. 31	E.			30.41			28.6	27.6
1902								
Jan. 3	E.			30.55			29.4	28.3
Means	W.	0	31	30.420	+53	21	26.57	27.89
	E.			30.476			29.10	28.10

82 B. Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	0	32	18.74	−25	18	21.7	20.4
19	W.			18.71			23.0	21.4
20	W.			18.73			22.9	20.6
Nov. 25	W.			18.74			22.6	20.8
Mean	W.	0	32	18.730	−25	18	22.55	20.80

319 B. Cephei

1902	Cl.	h	m	s	°	′	″	″
Jan. 8	E.	0	32	21.17	+81	57	8.7	....
Jan. 11	E.			22.95			8.8	....
Mean	E.	0	32	22.060	+81	57	8.75	.....

319 B. Cephei S. P.

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	0	32	21.23	+81	57	10.0	....
Jan. 6	E.			21.67			9.5	....
Mean	E.	0	32	21.450	+81	57	9.75	.....

Circle A. B.

δ Andromedæ

1901	Cl.	h m	s	° ′	″	″
Nov. 26	W.	0 34	5.10	−30 19	28.3	28.4
Nov. 27	W.		5.07		28.2	28.4
Dec. 2	W.		5.08		28.6	28.9
4	W.		5.10		27.2	28.2
6	W.		5.13		28.5	28.2
7	W.		5.10		28.2	28.0
8	W.		5.13		27.7	28.7
17	E.		5.12		29 5	29.6
22	E.		5.13		30.1	30.4
27	E.		5.18		29.4	29.6
Dec. 31	E.		5.11		30.2	29.8
1902						
Jan. 3	E.		5.16		29.7	29.6
Means	W.	0 34	5.101	+30 19	28.10	28.40
	E.		5.140		29.78	29.80

α Cassiopeiæ

1901	Cl.	h m	s	° ′	″	″
Nov. 15	W.	0 34	56.55	+55 59	58.5	60.9
19	W.		56.46		56.8	59.7
20	W.		56.50		58.5	60.3
Nov. 25	W.		56.50		57.2	60.2
Mean	W.	0 34	56.502	+55 59	57.75	60.28

β Ceti

1901	Cl.	h m	s	° ′	″	″
Nov. 26	W.	0 38	40.26	−18 31	29.5	28.3
Nov. 27	W.		40.35		28.9	27.1
Mean	W.	0 38.	40.305	−18 31	29.20	27.70

21 Cassiopeiæ

1901	Cl.	h m	s	° ′	″	″
Nov. 15	W.	0 39	10.12	+74 27	8.9	9.0
19	W.		10.04		7.6	10.4
20	W.		10.24		7.8	8.5
Nov. 25	W.		10.05		7.0	7.9
Dec. 2	W.		10.14		8.1	7.1
4	W.		10.13		8.1	8.5
6	W.		10.16		8.4	7.5
7	W.		10.25		8.2	8.2
8	W.		10.28		8.2	7.5
17	E.		10.19		7.5	6.8
22	E.		10.15		8.4	7.3
27	E.		10.16		8.3	6.3
Dec. 31	E.		10.161		8.1	6.2
1902						
Jan. 3	E.		10.24		7.6	5.4
8	E.		10.14		7.4	....
Jan. 11	E.		10.13		7.6	....
Means	W.	0 39	10.157	+74 27	8.03	8.30
	E.		10.167		7.84	6.40

21 Cassiopeiæ S. P.

1902	Cl.	h m	s	° ′	″	″
Jan. 5	E.	0 39	10.15	+74 27	7.2	....
Jan. 6	E.		10.35		7.6	....
Mean	E.	0 39	10.250	+74 27	7.40	.....

ζ Andromedæ

1901	Cl.	h m	s	° ′	″	″
Nov. 27	W.	0 42	8.59	+23 44	2.4	3.4
Dec. 2	W.		8.51		2.0	2.8
4	W.		8.56		1.7	2.6
5	W.		8.55		1.6	2.2
6	W.		8.52		2.6	3.0
7	W.		8.57		2.2	2.7
8	W.		8.54		1.8	2.8
17	E.		8.56		2.9	2.0
22	E.		8.56		2.7	2.7
27	E.		8.53		3.1	2.6
Dec. 31	E.		8.53		2.1	1.8
1902						
Jan. 3	E.		8.54		2.8	2.1
Means	W.	0 42	8.549	+23 44	2.04	2.79
	E.		8.544		2.72	2.24

Circle A. B.

η Cassiopeiæ

1902	Cl.	h m	s	° ′	″	″
Jan. 8	E.	0 43	10.10	+57 17	45.8	....
Jan. 11	E.		10.10		46.1	....
Mean	E.	0 43	10.100	+57 17	45.95	.....

δ Piscium

1901	Cl.	h m	s	° ′	″	″
Nov. 15	W.	0 43	35.83	+7 3	7.3	9.4
19	W.		35.82		6.9	7.6
20	W.		35.79		7.8	8.2
Nov. 26	W.		35.84		7.4	7.6
Mean	W.	0 43	35.820	+7 3	7.35	8.20

ν Andromedæ

1901	Cl.	h m	s	° ′	″	″
Nov. 27	W.	0 44	24.36	+40 32	42.1	43.4

B. D. +37° 151

1901	Cl.	h m	s	° ′	″	″
Dec. 5	W.	0 45	49.50	+37 30	34.6	35.8
6	W.		49.52		34.4	34.9
7	W.		49.51		34.7	35.7
8	W.		49.57		33.5	34.4
17	E.		49.57		36.4	36.2
27	E.		49.56		36.0	36.1
Dec. 31	E.		49.57		36.0	35.7
1902						
Jan. 3	E.		49.52		36.6	35.9
Means	W.	0 45	49.525	+37 30	34.30	35.20
	E.		49.555		36.25	35.98

20 Ceti

1901	Cl.	h m	s	° ′	″	″
Nov. 15	W.	0 47	59.97	−1 40	33.8	34.6
19	W.		59.96		34.4	34.6
20	W.		59.97		34.5	34.5
Nov. 26	W.		60.00		34.4	34.5
Mean	W.	0 47	59.975	−1 40	34.28	34.55

γ Cassiopeiæ

1901	Cl.	h m	s	° ′	″	″
Nov. 15	W.	0 50	47.32	+60 11	7.8	10.1
19	W.		47.28		8.3	9.4
20	W.		47.29		8.9	10.0
Nov. 26	W.		47.27		9.5	9.7
Dec. 2	W.		47.29		8.9	9.8
4	W.		47.29		8.8	9.7
5	W.		47.32		8.7	10.0
6	W.		47.27		8.3	9.7
7	W.		47.33		8.7	10.1
8	W.		47.28		7.9	9.5
17	E.		47.31		10.1	11.0
22	E.		47.41		11.4	11.0
27	E.		47.29		10.1	11.1
Dec. 31	E.		47.28		11.0	11.0
1902						
Jan. 3	E.		47.28		11.5	11.4
Means	W.	0 50	47.294	+60 11	8.58	9.80
	E.		47.314		10.82	11.10

μ Andromedæ

1901	Cl.	h m	s	° ′	″	″
Nov. 27	W.	0 51	18.70	+37 58	4.0	4.0

α Sculptoris

1901	Cl.	h m	s	° ′	″	″
Nov. 15	W.	0 53	53.14	−29 53	14.6	12.8
19	W.		53.10		14.3	13.3
20	W.		53.12		13.9	13.3
Nov. 27	W.		53.17		14.0	12.2
Mean	W.	0 53	53.132	−29 53	14.20	12.90

Circle A. B.

43 H. Cephei

1901	Cl.	h m	s	° ′	″	″
Dec. 2	W.	0 55	16.23	+85 43	53.0	54.0
4	W.		16.54		52.1	54.1
5	W.		16.33		53.0	54.8
6	W.		16.27		53.4	53.9
7	W.		16.13		53.6	54.8
8	W.		15.88		52.2	54.5
17	E.		16.57		53.2	52.0
27	E.		16.60		53.4	52.4
Dec. 31	E.		16.12		54.3	52.3
1902						
Jan. 3	E.		15.70		53.2	53.4
5	E.		15.91		52.8	....
8	E.		16.25		52.8	....
11	E.		16.36		53.3	....
Jan. 20	W.		16.28		52.8	....
Means	W.	0 55	16.237	+85 43	52.87	54.35
	E.		16.216		53.29	52.52

43 H. Cephei S. P.

1902	Cl.	h m	s	° ′	″	″
Jan. 3	E.	0 55	.....	+85 43	54.4	....
5	E.		16.02		53.8	....
Jan. 6	E.		17.23		53.5	....
May 29	W.		16.35		53.9	53.8
May 30	W.		16.05		53.8	53.7
June 1	W.		16.19		53.5	53.4
2	W.		16.23		54.1	52.4
4	W.		15.60		53.3	53.8
5	E.		15.50		54.8	53.8
6	E.		16.06		54.2	53.9
8	E.		16.10		54.1	54.7
9	E.		15.86		53.6	54.1
June 10	E.		16.33		54.4	54.4
Means	W.	0 55	16.084	+85 43	53.72	53.42
	E.		16.157		54.10	54.18

ε Piscium

1901	Cl.	h m	s	° ′	″	″
Nov. 15	W.	0 57	51.37	+7 21	46.2	47.5
19	W.		51.31		46.0	45.9
20	W.		51.39		46.6	47.7
Nov. 26	W.		51.41		46.0	46.0
1902						
Jan. 5	E.		51.36		44.6	....
8	E.		51.35		44.9	....
11	E.		51.36		44.7	....
Jan. 20	W.		51.41		46.7	....
Means	W.	0 57	51.378	+7 21	46.30	46.78
	E.		51.357		44.73	.....

26 Ceti

1901	Cl.	h m	s	° ′	″	″
Nov. 27	W.	0 58	46.36	+0 50	30.0	31.0

72 Piscium

1901	Cl.	h m	s	° ′	″	″
Nov. 15	W.	0 59	54.88	+14 25	9.8	10.0
19	W.		54.83		8.1	9.7
20	W.		54.90		9.1	10.0
Nov. 26	W.		54.86		8.9	9.1
Mean	W.	0 59	54.868	+14 25	8.98	9.70

μ Cassiopeiæ

1901	Cl.	h m	s	° ′	″	″
Nov. 27	W.	1 1	44.77	+54 26	21.1	22.6

e Piscium

1901	Cl.	h m	s	° ′	″	″
Nov. 15	W.	1 3	19.22	+5 7	53.6	54.6
19	W.		19.25		52.6	53.2
20	W.		19.25		53.4	53.8
Nov. 26	W.		19.27		53.6	53.6
Mean	W.	1 3	19.248	+5 7	53.30	53.80

η Ceti

1901	Cl.	h	m	s	°	′	Circle A. ″	B. ″
Dec. 2	W.	1	3	39.60	−10	42	6.0	5.9
4	W.			39.63			6.6	5.7
5	W.			39.62			6.6	6.5
6	W.			.....			6.1	5.9
7	W.			39.62			6.3	6.2
8	W.			39.64			7.0	6.2
17	E.			39.65			5.4	5.3
18	E.			39.65			5.5	5.1
27	E.			39.61			5.7	5.3
Dec. 31	E.			39.64			6.2	6.6
Means	W.	1	3	39.622	−10	42	6.43	6.07
	E.			39.638			5.70	5.57

44 H. Cephei

1902	Cl.	h	m	s	°	′	″	″
Jan. 20	W.	1	3	47.50	+79	9	7.8	....

β Andromedæ

1901	Cl.	h	m	s	°	′	″	″
Nov. 27	W.	1	4	14.51	+35	6	3.3	4.2
1902								
Mar. 29	E.			14.48			....	....

B. D. +36° 201

1901	Cl.	h	m	s	°	′	″	″
Dec. 5	W.	1	5	39.72	+37	12	9.8	10.8
6	W.			.....			9.2	9.9
7	W.			39.74			9.4	10.4
8	W.			39.68			8.7	9.7
17	E.			39.69			10.8	10.1
27	E.			39.74			11.0	10.2
Dec. 31	E.			39.71			10.8	10.6
1902								
Jan. 3	E.			39.66			11.4	10.6
Means	W.	1	5	39.713	+37	12	9.28	10.20
	E.			39.700			11.00	10.38

g Piscium

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	1	5	42.40	+30	54	13.7	14.3
19	W.			42.33			12.9	13.3
20	W.			42.36			12.6	12.2
Nov. 26	W.			42.30			13.9	12.8
Mean	W.	1	5	42.348	+30	54	13.28	13.15

χ Piscium

1901	Cl.	h	m	s	°	′	″	″
Nov. 27.	W.	1	6	11.01	+20	30	48.2	49.1

B. D. +40° 249

1901	Cl.	h	m	s	°	′	″	″
Dec. 5	W.	1	7	44.52	+40	42	58.1	59.2
6	W.			.....			57.8	60.5
7	W.			44.56			57.9	59.2
8	W.			44.55			57.8	60.2
17	E.			44.57			59.3	58.5
27	E.			44.59			59.0	59.6
Dec. 31	E.			44.62			59.0	58.9
1902								
Jan. 3	E.			44.55			59.7	59.5
Means	W.	1	7	44.543	+40	42	57.90	59.78
	E.			44.582			59.25	59.12

ζ¹ Piscium

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	1	8	36.62	+7	3	27.9	27.6
19	W.			36.61			26.8	26.2
20	W.			36.63			27.8	27.5
Nov. 26	W.			36.64			27.2	27.0
Mean	W.	1	8	36.625	+7	3	27.42	27.08

37 Ceti

1901	Cl.	h	m	s	°	′	Circle A. ″	B. ″
Nov. 27	W.	1	9	27.84	− 8	26	58.3	56.7

f Piscium

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	1	12	44.58	+3	5	56.5	57.7
19	W.			44.60			55.4	56.0
20	W.			44.62			56.1	57.3
Nov. 26	W.			44.60			55.9	55.6
Dec. 2	W.			44.58			55.1	56.1
4	W.			44.59			55.3	56.2
5	W.			44.57			55.4	55.3
6	W.			44.58			56.0	56.0
7	W.			44.63			55.3	54.8
8	W.			44.54			55.2	55.3
16	E.			44.61			55.1	54.0
17	E.			44.57			55.2	54.1
18	E.			44.55			55.5	54.1
27	E.			44.57			55.8	54.9
Dec. 31	E.			44.59			54.6	53.8
1902								
Jan. 3	E.			44.56			55.4	54.4
4	E.			44.62			55.5	....
5	E.			44.58			54.3	....
8	E.			44.58			54.4	....
Jan. 20	W.			44.57			55.2	....
Means	W.	1	12	44.587	+3	5	55.58	56.03
	E.			44.581			55.09	54.22

l Piscium

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	1	15	42.11	+28	13	35.3	35.7
19	W.			42.11			34.5	35.2
20	W.			42.14			35.7	35.8
Nov. 25	W.			42.15			33.5	33.9
Mean	W.	1	15	42.128	+28	13	34.75	35.15

B. D. +42° 288

1901	Cl.	h	m	s	°	′	″	″
Dec. 6	W.	1	16	29.44	+43	4	16.4	17.2
7	W.			29.42			16.1	16.1
8	W.			29.48			15.9	16.8
17	E.			29.42			16.5	15.7
27	E.			29.43			17.6	16.1
Dec. 31	E.			29.51			16.2	14.9
1902								
Jan. 3	E.			29.42			16.9	15.6
Means	W.	1	16	29.447	+43	4	16.13	16.70
	E.			29.445			16.80	15.58

θ Ceti

1901	Cl.	h	m	s	°	′	″	″
Dec. 2	W.	1	19	7.50	−8	41	20.5	....
4	W.			7.46			20.6	19.6
5	W.			7.50			21.0	19.4
6	W.			7.49			21.2	19.0
7	W.			7.47			21.6	19.8
8	W.			7.48			20.9	20.4
16	E.			7.47			18.1	20.2
17	E.			7.47			18.8	19.9
18	E.			7.48			19.1	19.7
27	E.			7.49			18.6	19.9
Dec. 31	E.			7.51			19.3	19.5
1902								
Jan. 3	E.			7.50			18.4	20.5
Means	W.	1	19	7.483	−8	41	20.97	19.64
	E.			7.487			18.72	19.95

α Ursæ Minoris

1901	Cl.	h	m	s	°	′	Circle A. ″	B. ″
Nov. 15	W.	1	23	24.51	+88	47	5.2	4.7
19	W.			24.88			3.7	3.1
20	W.			24.03			5.2	4.5
25	W.			23.50			4.6	4.2
26	W.			22.67			5.1	3.9
Nov. 27	W.			22.92			4.7	4.3
Dec. 4	W.			23.64			4.7	3.4
5	W.			23.95			4.9	3.8
6	W.			22.42			5.6	4.1
7	W.			23.64			5.0	3.4
8	W.			24.69			4.9	4.0
16	E.			22.79			3.7	3.0
17	E.			25.36			3.5	3.6
18	E.			24.32			3.8	3.5
27	E.			24.53			3.4	2.9
Dec. 31	E.			23.60			3.4	2.9
1902								
Jan. 3	E.			23.16			3.7	3.5
4	E.			23.91			4.1	....
5	E.			21.38			3.4	....
8	E.			21.22			3.2	....
Jan. 20	W.			22.75			4.6	....
Mar. 29	E.			22.39			....	2.1
Means	W.	1	23	23.633	+88	47	4.85	3.95
	E.			23.266			3.58	3.07

α Ursæ Minoris S. P.

1901	Cl.	h	m	s	°	′	″	″
Nov. 27	W.	1	23	.....	+88	47	6.1	4.0
Nov. 30	W.			.....			5.3	3.9
Dec. 1	W.			.....			3.5	1.6
3	W.			.....			5.1	3.6
9	W.			.....			4.7	3.0
10	E.			.....			3.3	3.4
11	E.			.....			3.7	4.3
15	E.			.....			4.5	4.3
21	E.			.....			2.9	3.8
23	E.			.....			3.8	4.1
Dec. 26	E.			.....			4.3	4.1
1902								
Jan. 3	E.			.....			4.1	4.5
5	E.			23.24			3.8	....
Jan. 6	E.			23.65			3.3	....
Mar. 29	E.			23.19			3.5	3.7
Apr. 3	E.			22.88			3.3	3.7
5	E.			24.63			3.3	3.4
12	E.			.....			3.4	3.5
13	E.			23.09			3.5	3.3
15	E.			24.71			3.8	4.3
17	W.			23.22			4.5	3.4
23	W.			23.10			5.4	4.1
24	W.			24.84			4.7	3.3
27	W.			25.28			5.3	3.6
Apr. 30	W.			22.67			5.2	3.8
May 1	W.			24.42			4.5	3.2
8	W.			.....			4.2	3.1
9	W.			.....			4.5	4.1
11	W.			.....			3.9	4.2
12	W.			.....			5.1	4.9
15	W.			.....			3.5	3.7
22	W.			.....			4.2	4.2
27	W.			.....			4.1	4.0
29	W.			24.31			4.1	4.3
May 30	W.			24.29			4.1	3.9
June 1	W.			24.20			4.0	3.8
2	W.			24.21			4.5	3.8
4	W.			22.39			3.5	3.6
5	E.			22.24			4.3	3.6
6	E.			23.83			4.1	3.7
8	E.			23.56			4.1	3.9
9	E.			24.32			3.9	3.5
June 10	E.			24.97			4.0	4.8
Aug. 16	E.			.....			3.9	3.5
Means	W.	1	23	23.903	+88	47	4.52	3.70
	E.			23.692			3.75	3.86

Circle A. B.

40 Cassiopeiæ

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	1	30	40.32	+72	32	27.1	27.5
5	W.			40.35			25.9	26.9
6	W.			40.42			25.9	26.9
7	W.			40.43			26.0	27.0
8	W.			40.42			....	26.6
16	E.			40.40			26.9	25.7
17	E.			40.47			26.7	26.1
18	E.			40.36			26.2	26.1
27	E.			40.53			26.4	26.8
Dec. 31	E.			40.48			27.0	25.9
Means	W.	1	30	40.388	+72	32	26.22	26.98
	E.			40.448			26.64	26.12

τ Andromedæ

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	1	34	47.49	+40	4	50.4	50.0
20	W.			47.45			51.9	51.9
26	W.			47.45			51.2	51.7
Nov. 27	W.			47.43			50.8	51.5
Mean	W.	1	34	47.455	+40	4	51.08	51.28

ν Piscium

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	1	36	19.80	+4	59	30.1	31.3
5	W.			19.81			30.5	31.0
6	W.			19.83			30.2	31.4
7	W.			19.79			29.9	31.3
8	W.			19.80			29.2	30.1
16	E.			19.83			32.8	31.8
17	E.			19.81			31.4	31.4
18	E.			19.81			32.9	32.3
27	E.			19.83			32.2	31.2
Dec. 31	E.			19.79			31.2	31.1
1902								
Jan. 3	E.			19.78			31.3	30.9
Means	W.	1	36	19.806	+4	59	29.98	31.02
	E.			19.808			31.97	31.45

φ Persei

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	1	37	30.80	+50	11	41.6	41.3
20	W.			30.88			42.3	41.2
26	W.			30.75			43.2	41.9
Nov. 27	W.			30.80			42.6	41.6
Mean	W.	1	37	30.808	+50	11	42.42	41.50

ε Sculptoris

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	1	41	3.39	−25	32	33.1	31.6
20	W.			3.42			31.9	31.1
26	W.			3.38			31.9	32.0
Nov. 27	W.			3.43			33.1	31.7
Dec. 4	W.			3.41			31.1	30.7
5	W.			3.42			32.3	31.3
6	W.			3.42			32.5	31.6
7	W.			3.38			32.8	32.3
8	W.			3.36			32.6	32.4
16	E.			3.40			29.5	31.4
17	E.			3.36			30.4	32.7
18	E.			3.48			29.7	....
27	E.			3.38			30.2	31.4
Dec. 31	E.			3.43			30.2	32.4
1902								
Jan. 3	E.			3.42			[32.8]	33.2
4	E.			3.46			30.2	....
5	E.			....			31.8	....
Jan. 20	W.			3.42			32.1	....
Means	W.	1	41	3.403	−25	32	32.34	31.63
	E.			3.419			30.29	32.22

Circle A. B.

54 Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	1	45	39.73	+10	33	28.9	30.0
20	W.			39.72			31.6	31.9
26	W.			39.61			30.6	31.5
Nov. 27	W.			39.60			29.9	31.1
Mean	W.	1	45	39.665	+10	33	30.25	31.12

ζ Ceti

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	1	46	37.38	−10	49	7.4	6.3
5	W.			37.37			8.5	7.4
6	W.			37.36			8.0	6.7
7	W.			37.37			8.3	7.8
8	W.			37.43			9.0	8.4
16	E.			37.39			8.0	8.0
17	E.			37.35			8.3	7.8
18	E.			37.36			8.8	7.7
27	E.			37.39			9.0	8.0
Dec. 31	E.			37.37			8.9	8.3
1902								
Jan. 3	E.			37.40			9.5	9.1
Means	W.	1	46	37.382	−10	49	8.24	7.32
	E.			37.377			8.75	8.15

ε Cassiopeiæ

1902	Cl.	h	m	s	°	′	″	″
Jan. 4	E.	1	47	20.20	+63	11	17.1	....
5	E.			20.17			15.9	....
Jan. 20	W.			20.24			13.7	....
Means	W.	1	47	20.24	+63	11	13.7	.....
	E.			20.185			16.50	.....

ξ Piscium

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	1	48	28.84	+2	42	13.1	15.8
20	W.			28.86			15.2	17.1
26	W.			28.87			14.8	16.9
Nov. 27	W.			28.88			14.7	16.2
Mean	W.	1	48	28.862	+2	42	14.45	16.50

β Arietis

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	1	49	13.46	+20	19	43.8	44.8
5	W.			13.51			43.9	44.4
6	W.			13.48			44.0	44.9
7	W.			13.53			44.2	44.2
8	W.			13.48			43.9	44.4
16	E.			13.43			46.9	45.4
17	E.			13.45			47.0	46.0
18	E.			13.49			47.1	46.5
27	E.			13.49			46.3	45.4
Dec. 31	E.			13.51			46.2	45.4
1902								
Jan. 3	E.			13.51			46.4	45.0
Mar. 29	E.			13.49			....	....
Means	W.	1	49	13.492	+20	19	43.96	44.54
	E.			13.481			46.65	45.62

ι Arietis

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	1	51	59.69	+17	20	19.6	20.6
20	W.			59.70			20.9	21.6
25	W.			59.74			19.7	20.2
26	W.			59.69			19.7	20.3
Nov. 27	W.			59.71			20.1	21.8
Mean	W.	1	51	59.706	+17	20	20.00	20.90

Circle A. B.

50 Cassiopeiæ

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	1	55	3.13	+71	56	50.4	50.4
19	W.			3.31			49.5	49.3
20	W.			3.38			50.6	49.8
Nov. 25	W.			3.31			50.4	49.5
Dec. 4	W.			3.27			51.1	49.6
5	W.			3.28			50.2	48.9
6	W.			3.28			50.7	49.6
7	W.			3.30			50.1	49.3
8	W.			3.37			49.8	49.8
16	E.			3.35			50.4	49.0
17	E.			3.27			49.9	49.0
18	E.			3.22			49.3	48.8
27	E.			3.37			49.6	49.0
Dec. 31	E.			3.34			50.1	48.5
1902								
Jan. 4	E.			3.25			50.5	....
5	E.			3.20			49.3	....
Jan. 20	W.			3.37			50.9	....
Means	W.	1	55	3.300	+71	56	50.37	49.58
	E.			3.286			49.87	48.86

50 Cassiopeiæ S. P.

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	1	55	3.18	+71	56	48.6	...
Jan. 6	E.			3.34			49.4	....
Mean	E.	1	55	3.260	+71	56	49.00	.....

υ Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 26	W.	1	55	23.26	−21	33	8.8	9.6

α Piscium

1901	Cl.	h	m	s	°	′	″	″
Nov. 26	W.	1	56	58.54	+2	17	25.0	26.2

ν Fornacis

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	0	5.92	−29	45	60.5	61.5
19	W.			5.92			61.7	59.8
20	W.			5.92			60.7	60.0
Nov. 25	W.			5.92			60.4	60.7
Mean	W.	2	0	5.920	−29	46	0.82	0.50

α Arietis

1902	Cl.	h	m	s	°	′	″	″
Jan. 1	E.	2	1	38.76	+22	59	57.7	....
4	E.			38.81			58.6	...
5	E.			38.76			57.8	....
Jan. 20	W.			38.78			55.5	....
Means	W.	2	1	38.78	+22	59	55.5	.....
	E.			38.777			58.03	.....

β Trianguli

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	3	42.60	+34	31	24.3	26.0
19	W.			42.66			25.1	26.5
20	W.			42.54			25.4	27.0
Nov. 25	W.			42.56			24.3	26.3
1902								
Jan. 4	E.			42.55			27.4	....
5	E.			42.51			26.5	....
Jan. 20	W.			42.58			24.3	....
Means	W.	2	3	42.588	+34	31	24.68	26.45
	E.			42.530			26.95	.....

55 Cassiopeiæ

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	6	47.03	+66	3	55.4	56.8
19	W.			47.00			54.0	55.3
20	W.			47.08			54.3	55.5
Nov. 25	W.			47.04			54.4	55.4
1902								
Jan. 20	W.			47.15			55.5	....
Mean	W.	2	6	47.060	+66	3	54.72	55.75

Circle A. B.

μ Fornacis

1901	Cl.	h	m	s	°	′	″	″
Dec. 5	W.	2	8	35.56	−31	10	60.6	59.5
6	W.			35.52			60.4	58.6
7	W.			35.58			60.2	58.9
8	W.			35.56			61.3	59.8
16	E.			35.63			59.3	59.3
17	E.			35.57			58.8	58.8
18	E.			35.58			59.2	58.4
27	E.			35.57			58.9	57.8
Dec. 31	E.			35.64			60.9	59.3
Means	W.	2	8	35.555	−31	10	60.62	59.20
	E.			35.598			59.42	58.72

γ Trianguli

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	11	29.12	+33	23	39.6	39.8
19	W.			29.14			38.8	38.4
20	W.			29.12			39.3	41.0
Nov. 25	W.			29.17			38.2	39.1
Dec. 4	W.			29.13			38.1	39.0
5	W.			29.07			38.7	38.8
7	W.			29.10			38.9	39.9
8	W.			29.10			38.7	39.5
16	E.			29.14			39.0	38.6
17	E.			29.13			38.5	38.4
18	E.			29.13			39.1	40.7
27	E.			29.12			39.1	39.4
Dec. 31	E.			29.16			39.6	39.1
Means	W.	2	11	29.119	+33	23	38.79	39.44
	E.			29.136			39.06	39.24

67 Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 27	W.	2	12	5.73	−6	52	25.4	23.9

o Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	14	23.73	−3	25	19.5	19.3
19	W.			23.75			19.7	19.1
20	W.			23.75			19.2	19.7
Nov. 25	W.			23.77			21.7	20.3
Mean	W.	2	14	23.750	−3	25	20.02	19.60

κ Fornacis

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	18	3.52	−24	15	40.6	40.2
19	W.			3.54			40.3	40.3
20	W.			3.54			40.7	40.8
Nov. 25	W.			3.54			39.5	40.8
Dec. 5	W.			3.52			40.7	40.8
6	W.			3.48			40.4	40.5
7	W.			3.55			40.3	40.6
8	W.			3.55			41.8	41.8
16	E.			3.53			41.6	42.7
17	E.			3.48			40.6	42.0
18	E.			3.53			40.2	42.1
27	E.			3.50			40.8	41.6
Dec. 31	E.			3.55			41.3	42.6
1902								
Jan. 1	E.			3.59			41.5	....
4	E.			3.58			41.4	....
5	E.			3.58			41.7	....
Jan. 20	W.			3.56			41.1	....
Means	W.	2	18	3.533	−24	15	40.60	40.72
	E.			3.542			41.14	42.20

ξ Arietis

1901	Cl.	h	m	s	°	′	″	″
Nov. 27	W.	2	19	33.75	+10	10	1.4	2.1

Circle A. B.

ι Cassiopeiæ

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	20	59.00	+66	57	44.2	43.3
20	W.			58.93			44.3	43.4
25	W.			58.98			43.6	41.7
Nov. 26	W.			58.93			43.7	42.8
Dec. 4	W.			59.08			43.6	42.7
5	W.			58.90			44.4	42.7
6	W.			58.97			43.7	43.0
7	W.			58.98			44.5	43.1
8	W.			59.04			43.9	42.1
16	E.			58.98			44.2	42.0
17	E.			58.93			43.7	41.3
18	E.			58.91			43.2	41.4
27	E.			59.04			43.2	42.8
Dec. 31	E.			59.06			43.1	41.5
1902								
Jan. 20	W.			59.05			44.8	....
Means	W.	2	20	58.986	+66	57	44.07	42.76
	E.			58.984			43.48	41.80

ξ² Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 27	W.	2	22	56.81	+8	1	17.1	15.5

27 Arietis

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	25	28.07	+17	16	14.9	14.5
20	W.			28.11			14.8	14.6
25	W.			28.13			13.8	12.7
Nov. 26	W.			28.13			13.3	13.2
Mean	W.	2	25	28.110	+17	16	14.20	13.75

σ Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	27	26.50	−15	40	29.1	27.6
20	W.			26.59			28.4	27.1
25	W.			26.57			29.4	29.3
Nov. 26	W.			26.55			28.8	29.3
Mean	W.	2	27	26.552	−15	40	28.92	28.32

36 H. Cassiopeiæ

1902	Cl.	h	m	s	°	′	″	″
Jan. 20	W.	2	28	42.28	+72	23	23.9	....

128 Hᴵ. Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	30	42.28	+6	25	10.4	11.7
19	W.			42.35			9.5	10.4
25	W.			42.36			9.3	10.3
Nov. 26	W.			42.35			9.1	9.4
Mean	W.	2	30	42.335	+6	25	9.58	10.45

ν Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 27	W.	2	30	43.79	+5	9	55.9	57.3

ν Arietis

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	33	14.98	+21	32	16.7	18.3
19	W.			14.99			16.5	17.4
25	W.			14.99			16.2	17.2
Nov. 26	W.			14.97			16.0	16.9
Mean	W.	2	33	14.982	+21	32	16.35	17.45

142 Hᴵ. Cephei

1902	Cl.	h	m	s	°	′	″	″
Jan. 1	E.	2	33	37.52	+81	1	61.1	....
4	E.			37.53			61.5	....
5	E.			37.65			61.2	....
Jan. 20	W.			37.84			59.7	....
Means	W.	2	33	37.84	+81	1	59.7	.....
	E.			37.567			61.27	.....

Circle A. B.

δ Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 27	W.	2	34	27.50	−0	5	37.1	37.5
Dec. 4	W.			27.53			36.5	37.7
5	W			27.50			36.8	37.8
6	W.			27.46			36.4	37.0
7	W.			27.54			36.8	37.9
8	W.			27.53			36.8	38.4
16	E.			27.49			37.9	38.8
17	E.			27.51			37.5	37.9
18	E.			27.52			38.1	37.9
27	E.			27.49			37.9	37.6
Dec. 31	E.			27.50			38.0	38.5
Means	W.	2	34	27.510	−0	5	36.73	37.72
	E.			27.502			37.88	38.14

118 Hᴵ. Cassiopeiæ

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	36	23.17	+67	24	30.4	31.0
19	W.			23.19			30.4	30.3
25	W.			23.22			30.4	29.6
Nov. 26	W.			23.19			29.5	30.2
Mean	W.	2	36	23.192	+67	24	30.18	30.28

μ Arietis

1901	Cl.	h	m	s	°	′	″	″
Nov. 27	W.	2	36	50.29	+19	35	38.7	38.8

θ Persei

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	2	37	30.16	+48	48	51.4	49.7
5	W.			30.08			51.8	49.5
6	W.			30.06			51.6	50.0
7	W.			30.11			52.3	50.8
8	W.			30.14			51.3	49.5
16	E.			30.06			52.7	51.7
17	E.			30.07			52.4	51.4
18	E.			30.09			52.2	51.2
27	E.			30.13			52.6	51.9
Dec. 31	E.			30.13			52.0	51.3
Means	W.	2	37	30.110	+48	48	51.68	49.90
	E.			30.096			52.38	51.50

γ Ceti

1902	Cl.	h	m	s	°	′	″	″
Jan. 4	E.	2	38	13.31	+2	49	23.8	....
5	E.			13.36			24.4	....
Jan. 20	W.			13.33			22.9	....
Means	W.	2	38	13.33	+2	49	22.9	.....
	E.			13.335			24.10	.....

π Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	39	27.48	−14	16	24.7	23.6
19	W.			27.53			24.1	23.2
20	W.			27.49			24.3	23.5
Nov. 25	W.			27.53			24.0	24.9
Dec. 4	W.			27.55			23.9	24.2
5	W.			27.52			24.4	23.5
6	W.			27.53			24.7	23.2
7	W.			27.52			24.1	24.2
8	W.			27.46			25.2	25.0
16	E.			27.51			24.5	25.6
17	E.			27.50			24.1	25.3
18	E.			27.50			24.2	24.8
27	E.			27.49			24.8	26.3
Dec. 31	E.			27.51			24.2	25.9
Means	W.	2	39	27.512	−14	16	24.38	23.92
	E.			27.502			24.36	25.58

μ Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 26	W.	2	39	38.58	+9	42	2.5	3.4
Nov. 27	W.			38.59			3.8	3.2
Mean	W.	2	39	38.585	+9	42	3.15	3.30

Circle A. B.

39 Arietis

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	42	4.27	+28	50	24.2	24.7
19	W.			4.27			25.1	24.3
20	W.			4.29			25.1	25.3
Nov. 25	W.			4.31			24.5	23.2
Mean	W.	2	42	4.285	+28	50	24.72	24.38

η Persei

1901	Cl.	h	m	s	°	′	″	″
Nov. 26	W.	2	43	32.51	+55	29	19.1	19.8
Nov. 27	W.			32.53			19.8	20.7
Mean	W.	2	43	32.520	+55	29	19.45	20.25

41 Arietis

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	44	12.76	+26	51	25.1	24.7
19	W.			12.83			23.0	24.4
20	W.			12.78			24.8	24.1
25	W.			12.79			23.9	23.2
Dec. 4	W.			12.75			25.0	25.2
6	W.			12.82			23.8	25.0
7	W.			12.79			25.0	24.8
8	W.			12.78			24.1	24.1
16	E.			12.80			25.2	24.7
17	E.			12.79			25.6	25.3
18	E.			12.76			24.8	25.4
27	E.			12.83			24.8	25.2
Dec. 31	E.			12.82			25.0	24.9
Means	W.	2	44	12.788	+26	51	24.34	24.44
	E.			12.800			25.08	25.10

β Fornacis

1902	Cl.	h	m	s	°	′	″	″
Jan. 1	E.	2	44	59.37	−32	49	1.9	....
4	E.			59.36			0.8	....
5	E.			59.45			2.5	....
Jan. 20	W.			59.41			1.6	....
Means	W.	2	44	59.41	−32	49	1.6	.....
	E.			59.393			1.73	.....

σ Arietis

1901	Cl.	h	m	s	°	′	″	″
Nov. 26	W.	2	46	4.84	+14	40	40.6	42.4
Nov. 27	W.			4.83			41.9	42.9
Mean	W.	2	46	4.835	+14	40	41.25	42.65

τ² Eridani

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	46	35.55	−21	24	26.6	27.6
19	W.			35.56			25.9	28.4
20	W.			35.63			25.3	27.6
Nov. 25	W.			35.64			26.6	28.2
Mean	W.	2	46	35.595	−21	24	26.10	27.95

τ Persei

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	2	47	18.33	+52	21	42.2	42.6
5	W.			18.27			42.2	42.9
6	W.			18.17			42.3	42.5
7	W.			18.30			41.9	42.5
8	W.			18.31			42.0	42.7
16	E.			18.25			44.1	42.1
17	E.			18.26			44.0	42.4
18	E.			18.24			43.1	41.8
27	E.			18.33			43.8	42.4
Dec. 31	E.			18.33			43.1	41.9
Means	W.	2	47	18.276	+52	21	42.12	42.64
	E.			18.282			43.62	42.12

Circle A. B.

47 H. Cephei

1901	Cl.	h	m	s	°	′	″	″
Nov. 26	W.	2	53	2.23	+79	1	51.3	54.1
Dec. 4	W.			2.51			52.7	53.3
5	W.			2.23			53.8	53.7
6	W.			2.26			52.8	53.7
7	W.			2.39			53.3	54.4
8	W.			2.46			52.6	53.3
16	E.			2.37			53.3	53.6
17	E.			2.46			53.7	53.8
18	E.			2.31			53.0	53.7
27	E.			2.38			53.6	53.8
Dec. 31	E.			2.27			53.4	54.1
1902								
Jan. 4	E.			2.07			54.2	....
5	E.			2.21			54.4	....
Jan. 20	W.			2.46			53.5	....
Means	W.	2	53	2.363	+79	1	52.86	53.75
	E.			2.296			53.66	53.80

47 H. Cephei s. P.

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	2	53	2.25	+79	1	55.0	55.4
May 30	W.			2.49			54.2	54.6
June 1	W.			2.24			54.1	54.5
2	W.			2.38			54.9	55.1
4	W.			2.22			54.0	54.8
5	E.			2.24			56.3	55.2
6	E.			2.33			55.4	55.7
8	E.			2.40			56.3	55.3
9	E.			2.48			55.5	54.8
June 10	E.			2.31			56.1	54.9
Means	W.	2	53	2.316	+79	1	54.44	54.88
	E.			2.352			55.92	55.18

λ Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	54	27.65	+8	31	2.5	1.4
19	W.			27.63			2.1	3.0
20	W.			27.68			3.1	1.5
Nov. 25	W.			27.51			2.6	1.3
Mean	W.	2	54	27.618	+8	31	2.58	1.80

α Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 27	W.	2	57	9.34	+3	42	20.0	21.4
1902								
Jan. 1	E.			9.37			21.1	....
4	E.			9.34			19.9	....
5	E.			9.38			19.7	....
Jan. 20	W.			9.33			19.9	....
Means	W.	2	57	9.335	+3	42	19.95	21.4
	E.			9.363			20.23	.....

γ Persei

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	2	57	41.50	+53	7	23.0	23.0
19	W.			41.58			22.1	22.8
20	W.			41.57			22.4	22.6
Nov. 26	W.			41.61			21.9	21.9
Mean	W.	2	57	41.565	+53	7	22.35	22.58

ρ Persei

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	2	58	53.59	+38	27	39.2	38.5
5	W.			53.63			38.7	37.9
6	W.			53.58			37.7	38.4
7	W.			53.60			38.4	38.2
8	W.			53.64			38.2	37.2
16	E.			53.62			39.6	38.1
17	E.			53.67			39.4	38.0
18	E.			53.61			39.2	38.1
27	E.			53.68			39.6	38.1
Dec. 31	E.			53.64			39.0	38.5
Means	W.	2	58	53.608	+38	27	38.44	38.04
	E.			53.644			39.36	38.16

Circle A. B.

Lalande 5724

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	3	1	0.68	+12	48	34.2	34.6
19	W.			0.80			34.2	34.9
20	W.			0.78			34.3	34.9
Nov. 26	W.			0.80			32.5	34.1
Mean	W.	3	1	0.765	+12	48	33.80	34.62

β Persei

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	3	1	47.33	+40	34	41.7	41.4
5	W.			47.27			42.2	42.0
6.	W.			47.25			41.9	42.7
7	W.			47.36			42.0	41.8
8	W.			47.32			41.8	41.7
16	E.			47.34			42.3	41.4
17	E.			47.35			42.0	41.6
18	E.			47.36			41.6	41.2
27	E.			47.41			42.1	41.5
Dec. 31	E.			47.40			42.7	41.7
Means	W.	3	1	47.306	+40	34	41.92	41.92
	E.			47.372			42.14	41.48

δ Arietis

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	6	1.41	+19	21	23.5	22.2
20	W.			1.40			23.3	22.2
25	W.			1.40			22.9	20.8
Nov. 26	W.			1.37			22.2	21.8
Mean	W.	3	6	1.395	+19	21	22.98	21.75

48 H. Cephei

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	3	7	52.35	+77	22	29.9	30.7
5	W.			52.15			29.6	27.4
6	W.			52.18			28.9	30.5
7	W.			52.27			30.2	29.9
8	W.			52.36			29.3	29.7
16	E.			52.24			29.5	29.8
17	E.			52.34			29.4	30.0
18	E.			52.23			29.5	28.8
27	E.			52.41			29.4	29.4
Dec. 31	E.			52.34			29.0	29.3
Means	W.	3	7	52.262	+77	22	29.58	29.64
	E.			52.312			29.36	29.46

1 H^{1}. Camelopardalis

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	11	21.61	+65	17	38.7	38.2
20	W.			21.58			38.6	38.6
Nov. 26	W.			21.58			37.9	38.8
Mean	W.	3	11	21.590	+65	17	38.40	38.53

κ Ceti

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	14	13.25	+3	0	40.3	41.8
20	W.			13.18			39.7	41.4
Nov. 26	W.			13.19			39.0	41.0
Mean	W.	3	14	13.207	+3	0	39.67	41.40

α Persei

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	17	19.24	+49	30	45.7	45.9
20	W.			19.29			44.4	45.3
26	W.			19.27			44.8	44.8
Nov. 27	W.			19.22			45.8	44.8
Dec. 4	W.			19.38			44.7	44.4
5	W.			19.26			46.0	44.9
6	W.			19.29			45.1	44.9
7	W.			19.30			45.7	44.5
8	W.			19.39			45.4	44.3
16	E.			19.37			47.3	46.4
17	E.			19.31			47.3	47.1
18	E.			19.30			46.0	45.8
27	E.			19.38			46.9	46.1
Dec. 31	E.			19.33			46.9	46.7
Means	W.	3	17	19.293	+49	30	45.29	44.87
	E.			19.338			46.88	46.42

Circle A. B.

ο Tauri

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	19	32.30	+8	41	4.3	3.7
Nov. 20	W.			32.32			4.0	2.9
Dec. 4	W.			32.26			4.2	3.4
5	W.			32.32			5.3	4.3
6	W.			32.25			4.1	3.2
7	W.			32.29			4.4	3.8
8	W.			32.25			4.5	4.0
16	E.			32.27			3.3	2.8
17	E.			32.28			3.9	4.1
18	E.			32.31			3.8	3.8
27	E.			32.26			3.4	4.0
Dec. 31	E.			32.26			3.4	3.8
1902								
Jan. 1	E.			32.29			2.8	....
4	E.			32.26			3.3	....
Jan. 5	E.			32.28			2.3	....
Means	W.	3	19	32.284	+8	41	4.40	3.61
	E.			32.276			3.28	3.70

2 H. Camelopardalis

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	21	7.62	+59	35	56.7	57.0
Nov. 27	W.			7.64			56.0	56.1
Mean	W.	3	21	7.630	+59	35	56.35	56.55

ξ Tauri

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	3	21	51.42	+9	23	29.5	29.2
5	W.			51.38			30.3	29.3
6	W.			51.42			30.2	29.7
7	W.			51.39			30.3	28.9
8	W.			51.40			29.3	28.8
16	E.			51.38			28.5	29.8
17	E.			51.40			28.8	29.9
18	E.			51.38			28.3	29.6
27	E.			51.39			28.5	29.5
Dec. 31	E.			51.37			28.4	30.0
Means	W.	3	21	51.402	+9	23	29.92	29.18
	E.			51.384			28.50	29.76

s Tauri

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	25	3.01	+11	0	2.5	2.8
20	W.			2.99			1.7	3.1
Nov. 27	W.			2.98			1.5	1.6
Mean	W.	3	25	2.993	+11	0	1.90	2.50

f Tauri

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	3	25	27.69	+12	36	3.9	4.1
5	W.			27.67			4.6	4.3
6	W.			27.69			3.8	4.7
7	W.			27.69			4.3	4.5
8	W.			27.74			4.4	3.9
16	E.			27.63			4.7	2.8
17	E.			27.67			4.9	2.8
18	E.			27.62			4.1	2.7
27	E.			27.68			4.6	2.6
Dec. 31	E.			27.65			4.7	2.8
Means	W.	3	25	27.696	+12	36	4.20	4.30
	E.			27.650			4.60	2.74

Circle A. B.

ε Eridani

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	28	18.79	−9	47	22.1	20.9
20	W.			18.83			21.2	21.1
Nov. 27	W.			18.79			22.6	22.5
Dec. 4	W.			18.78			22.3	22.3
5	W.			18.79			21.8	21.5
6	W.			18.82			22.5	22.4
7	W.			18.78			22.5	22.9
8	W.			18.77			22.6	23.1
16	E.			18.84			23.0	22.2
17	E.			18.77			23.0	23.0
18	E.			18.84			23.3	....
27	E.			18.73			22.7	21.7
Dec. 31	E.			18.79			23.8	22.5
Means	W.	3	28	18.794	−9	47	22.20	22.09
	E.			18.794			23.16	22.35

10 Tauri

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	31	52.24	+0	5	30.4	28.6
20	W.			52.27			29.0	28.0
Nov. 27	W.			52.24			29.3	27.7
Mean	W.	3	31	52.250	+0	5	29.57	28.10

11 H[1]. Camelopardalis

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	3	33	38.89	+62	53	56.5	56.9
5	W.			38.71			57.3	57.3
6	W.			38.72			56.4	56.9
7	W.			38.71			57.0	57.5
8	W.			38.81			56.3	57.7
16	E.			38.83			58.4	58.5
17	E.			38.79			58.1	57.4
18	E.			38.72			58.0	56.8
27	E.			38.84			58.3	57.3
Dec. 31	E.			38.76			58.0	57.0
Means	W.	3	33	38.768	+62	53	56.70	57.26
	E.			38.788			58.16	57.40

Piazzi III, 103

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	33	53.11	+16	13	5.1	6.6
Nov. 20	W.			53.08			5.0	5.0
Mean	W.	3	33	53.095	+16	13	5.05	5.80

δ Persei

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	3	35	56.65	+47	28	28.2	26.6
5	W.			56.58			28.2	27.0
6	W.			56.58			27.3	26.3
7	W.			56.62			28.2	26.1
8	W.			56.63			28.4	26.7
16	E.			56.68			28.1	28.4
17	E.			56.70			28.2	28.1
18	E.			56.64			26.9	27.5
27	E.			56.71			27.8	27.3
Dec. 31	E.			56.66			28.0	28.3
Means	W.	3	35	56.612	+47	28	28.06	26.54
	E.			56.678			27.80	27.92

13 Tauri

1901	Cl.	h	m	s	°	′	″	″
Nov. 20	W.	3	36	39.66	+19	23	11.7	12.9

B. D. +19° 579

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	36	49.61	+19	50	14.6	14.7

Circle A. B.

ν Persei

1901	Cl.	h	m	s	°	′	″	″
Nov. 20	W.	3	38	31.97	+42	16	8.3	9.3

5 H. Camelopardalis

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	3	40	0.41	+71	1	49.1	50.4
5	W.			0.28			49.9	50.1
6	W.			0.29			49.1	50.5
7	W.			0.37			49.9	49.9
8	W.			0.38			49.5	49.8
16	E.			0.40			50.3	50.1
17	E.			0.46			50.4	49.9
18	E.			0.35			50.1	50.0
27	E.			0.47			50.0	50.1
Dec. 31	E.			0.35			49.6	49.2
Means	W.	3	40	0.346	+71	1	49.50	50.14
	E.			0.406			50.08	49.86

η Tauri

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	41	39.39	+23	48	8.3	8.6
Nov. 20	W.			39.45			6.3	8.4
Mean	W.	3	41	39.420	+23	48	7.30	8.50

τ[6] Eridani

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	3	42	37.95	−23	32	19.9	20.3
5	W.			37.92			20.0	21.3
6	W.			37.95			20.7	20.6
7	W.			37.92			20.1	20.8
8	W.			37.92			20.5	21.5
17	E.			37.90			19.6	20.6
27	E.			37.98			20.0	20.3
Dec. 31	E.			37.94			18.6	20.9
Means	W.	3	42	37.932	−23	32	20.24	20.90
	E.			37.940			19.40	20.60

τ[7] Eridani

1901	Cl.	h	m	s	°	′	″	″
Nov. 20	W.	3	43	26.79	−24	10	41.4	39.9

Mayer 136

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	47	33.73	+17	3	8.1	9.1
Nov. 20	W.			33.73			7.4	8.3
Mean	W.	3	47	33.730	−17	3	7.75	8.70

ε Persei

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	51	16.46	+39	43	38.5	39.3
Nov. 20	W.			16.41			35.6	36.8
Dec. 4	W.			16.46			37.1	36.8
5	W.			16.46			37.0	37.2
6	W.			16.46			37.3	37.1
7	W.			16.47			37.4	36.6
8	W.			16.50			37.1	36.7
16	E.			16.54			36.7	36.9
17	E.			16.53			37.5	36.7
18	E.			16.51			37.2	37.3
27	E.			16.47			37.0	37.2
Dec. 31	E.			16.54			37.5	37.5
Means	W.	3	51	16.460	+39	43	37.14	37.21
	E.			16.518			37.18	37.12

Circle A. B.

γ Eridani

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	53	27.37	−13	47	12.0	11.2
Nov. 20	W.			27.35			12.1	12.2
Dec. 4	W.			27.43			13.7	13.2
5	W.			27.44			12.3	13.0
6	W.			27.41			13.4	12.3
7	W.			27.44			13.1	13.1
8	W.			27.45			13.3	13.4
16	E.			27.39			13.0	14.2
17	E.			27.40			12.9	14.1
18	E.			27.42			12.6	13.5
27	E.			27.40			12.5	13.8
Dec. 31	E.			27.48			13.3	14.3
Means	W.	3	53	27.413	−13	47	12.84	12.63
	E.			27.418			12.86	13.98

τ^9 Eridani

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	55	44.83	−24	17	35.6	36.8
Nov. 20	W.			44.76			39.7	38.0
Mean	W.	3	55	44.795	−24	17	37.65	37.40

ν Tauri

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	3	57	56.53	+5	43	4.3	4.2
5	W.			56.53			5.2	4.6
6	W.			56.54			4.3	4.5
7	W.			56.53			5.1	4.2
8	W.			56.52			4.1	3.6
16	E.			56.56			5.0	4.2
17	E.			56.51			5.1	4.9
18	E.			56.54			4.5	4.7
27	E.			56.53			4.0	3.6
Dec. 31	E.			56.49			4.5	4.8
Means	W.	3	57	56.530	+5	43	4.60	4.22
	E.			56.526			4.62	4.44

A Tauri

1902	Cl.	h	m	s	°	′	″	″
Jan. 13	E.	3	58	53.96	+21	48	53.3	52.6
14	E.			53.99			53.5	51.7
16	E.			54.02			52.9	52.2
17	W.			53.99			51.2	52.3
Jan. 28	W.			53.98			51.5	51.7
Feb. 2	W.			53.98			51.1	51.3
3	W.			54.01			49.7	50.8
Feb. 4	W.			54.01			50.3	50.7
Means	W.	3	58	53.994	+21	48	50.76	51.36
	E.			53.990			53.23	52.17

λ Persei

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	3	59	16.72	+50	5	8.9	8.3
Nov. 20	W.			16.74			8.4	8.0
Mean	W.	3	59	16.730	+50	5	8.65	8.15

c Persei

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	4	1	32.61	+47	27	4.0	5.0
13	E.			32.57			4.9	4.8
14	E.			32.60			4.6	4.9
16	E.			32.61			4.1	4.8
17	W.			32.65			4.7	3.2
Jan. 28	W.			32.60			4.3	3.1
Feb. 2	W.			32.55			3.9	3.0
3	W.			32.61			3.6	2.6
Feb. 4	W.			32.67			4.4	2.7
Means	W.	4	1	32.616	+47	27	4.18	2.92
	E.			32.598			4.40	4.88

Circle A. B.

151 Hᴵ. Cephei.

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	4	5	39.56	+85	17	48.2	47.0
13	E.			40.08			47.9	46.0
14	E.			39.97			48.5	47.2
16	E.			40.71			48.3	47.1
17	W.			40.34			47.1	47.4
Jan. 28	W.			40.32			47.5	47.5
Feb. 2	W.			40.29			47.1	47.3
3	W.			39.77			46.8	47.4
Feb. 4	W.			40.86			46.4	46.9
Means	W.	4	5	40.316	+85	17	46.98	47.30
	E.			40.080			48.22	46.82

151 Hᴵ. Cephei S. P.

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	4	5	40.42	+85	17	49.6	49.0
May 30	W.			40.54			48.8	48.7
June 1	W.			40.10			49.5	48.7
2	W.			39.95			49.5	48.9
4	W.			39.97			48.9	48.6
5	E.			39.97			48.5	48.2
6	E.			40.26			47.8	48.5
8	E.			40.21			47.9	48.1
9	E.			39.92			48.3	48.9
10	E.			39.91			47.3	47.6
21	E.			40.04			47.2	47.5
23	E.			40.09			48.6	48.5
June 26	E.			39.72			47.9	47.7
July 8	E.			39.50			47.9	48.0
10	E.			39.89			47.8	48.5
12	E.			39.47			48.3	48.0
22	E.			40.17			48.6	48.9
27	E.			.....			48.5	47.5
July 31	E.			40.20			48.3	48.3
Aug. 2	E.			40.23			46.7	48.5
3	E.			.....			47.9	47.7
4	E.			40.18			48.4	47.4
Aug. 7	E.			40.59			47.5	47.7
Means	W.	4	5	40.196	+85	17	49.26	48.78
	E.			40.022			47.97	48.08

γ Tauri

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	4	14	12.89	+15	23	27.5	28.1
5	W.			12.90			28.3	28.7
6	W.			12.91			27.6	28.4
7	W.			12.93			27.8	28.0
8	W.			.....			28.3	28.7
16	E.			12.92			29.7	28.4
17	E.			12.93			28.8	27.7
18	E.			....			29.6	28.8
27	E.			12.94			30.1	28.6
Dec. 31	E.			12.90			29.1	27.9
Means	W.	4	14	12.908	+15	23	27.90	28.38
	E.			12.922			29.46	28.28

B. D. +35° 860

1901	Cl.	h	m	s	°	′	″	″
Dec. 5	W.	4	17	8.34	+35	40	23.1	24.4
6	W.			8.35			21.9	24.3
7	W.			8.34			23.4	24.5
8	W.			.....			22.2	23.8
16	E.			8.40			27.7	25.2
17	E.			8.44			26.2	25.2
18	E.			8.35			26.1	25.2
27	E.			8.38			26.1	24.5
Dec. 31	E.			8.39			26.1	24.6
Means	W.	4	17	8.343	+35	40	22.65	24.25
	E.			8.392			26.44	24.94

Circle A. B.

δ Tauri

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	4	17	16.88	+17	18	48.5	47.2
13	E.			16.86			49.0	47.9
14	E.			16.86			48.5	46.6
16	E.			16.87			48.7	47.3
17	W.			16.88			45.7	45.7
Jan. 28	W.			16.91			44.7	44.2
Feb. 2	W.			16.89			45.7	44.9
3	W.			16.84			46.1	45.6
Feb. 4	W.			16.96			45.2	45.3
Means	W.	4	17	16.896	+17	18	45.48	45.14
	E.			16.868			48.68	47.25

ε Tauri

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	4	22	53.56	+18	57	47.4	46.7
12	E.			53.61			48.2	47.9
13	E.			53.54			49.2	48.0
14	E.			53.60			48.6	47.0
16	E.			53.57			48.4	47.5
17	W.			53.58			47.5	47.1
Jan. 28	W.			53.55			47.0	46.2
Feb. 2	W.			53.57			47.7	46.3
3	W.			53.59			47.6	47.0
Feb. 4	W.			53.57			46.6	47.3
Mar. 10	E.			53.59			.....	45.7
Mar. 11	E.			53.49			.....	46.4
Means	W.	4	22	53.572	+18	57	47.28	46.78
	E.			53.566			48.36	47.03

B. D. +39° 1013

1901	Cl.	h	m	s	°	′	″	″
Dec. 5	W.	4	24	42.09	+39	47	51.2	51.0
6	W.			42.15			50.1	50.9
7	W.			42.13			51.0	50.6
8	W.			.....			50.8	50.2
17	E.			42.29			52.0	50.8
18	E.			42.20			52.2	50.7
27	E.			42.22			51.7	50.0
Dec. 31	E.			42.20			51.9	50.2
Means	W.	4	24	42.123	+39	47	50.78	50.68
	E.			42.228			51.95	50.42

α Tauri

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	4	30	17.77	+16	18	46.5	43.3
12	E.			17.79			47.6	45.0
13	E.			17.81			46.7	45.2
14	E.			17.84			46.6	45.1
16	E.			17.80			47.2	44.3
17	W.			17.79			43.6	44.9
Jan. 28	W.			17.80			43.2	42.9
Feb. 2	W.			17.79			43.5	44.4
3	W.			17.81			43.0	43.8
Feb. 4	W.			17.79			43.2	44.4
Means	W.	4	30	17.796	+16	18	43.30	44.08
	E.			17.802			46.92	44.58

53 Eridani

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	4	33	41.59	14	29	42.6	43.9
12	E.			41.60			41.4	42.5
13	E.			41.52			41.9	42.3
14	E.			41.53			42.5	43.7
16	E.			41.49			42.3	43.7
17	W.			41.56			43.4	42.7
Jan. 28	W.			41.53			43.3	43.6
Feb. 2	W.			41.57			44.4	43.2
3	W.			41.55			43.3	42.3
Feb. 4	W.			41.56			44.2	42.7
Means	W.	4	33	41.554	−14	29	43.72	42.90
	E.			41.546			42.14	43.22

Circle A. B.

35 B. Camelopardalis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	4	35	38.05	+75	45	46.9	46.2
12	E.			38.41			47.7	46.5
13	E.			38.23			46.6	46.5
14	E.			38.30			47.3	46.7
16	E.			38.44			46.5	46.1
17	W.			38.37			47.3	46.9
Jan. 28	W.			38.43			46.8	47.0
Feb. 2	W.			38.32			46.6	47.5
3	W.			38.39			47.8	47.5
Feb. 4	W.			38.45			47.5	47.4
Means	W.	4	35	38.392	+75	45	47.20	47.26
	E.			38.286			47.00	46.40

35 B. Camelopardalis S. P.

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	4	35	38.49	+75	45	48.2	49.7
May 30	W.			38.40			49.3	50.6
June 1	W.			38.22			49.4	48.7
2	W.			38.17			48.3	48.5
4	W.			38.15			48.8	48.4
5	E.			38.17			47.2	47.8
8	E.			38.19			47.7	48.8
9	E.			38.32			48.0	49.0
June 10	E.			38.31			47.5	48.5
Means	W.	4	35	38.286	+75	45	48.80	49.18
	E.			38.248			47.60	48.52

4 Camelopardalis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	4	39	50.17	+56	34	60.5	60.9
12	E.			50.26			60.4	61.1
13	E.			50.25			60.0	60.1
14	E.			50.26			60.3	60.4
16	E.			50.29			60.4	60.4
17	W.			50.24			59.5	60.6
Jan. 28	W.			50.22			59.5	59.8
Feb. 2	W.			50.27			60.0	60.6
3	W.			50.21			59.5	60.0
Feb. 4	W.			50.32			59.8	60.3
Means	W.	4	39	50.252	+56	34	59.66	60.26
	E.			50.246			60.32	60.58

50 H. Cephei

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	4	41	59.50	+81	1	....	54.9

50 H. Cephei S. P.

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	4	41	59.64	+81	1	....	54.4

9 Camelopardalis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	4	44	18.27	+66	10	35.9	34.6
12	E.			18.29			36.4	35.3
13	E.			18.18			36.7	34.8
14	E.			18.27			36.8	35.5
16	E.			18.22			35.8	35.5
17	W.			18.21			33.8	34.9
Jan. 28	W.			18.35			33.9	33.9
Feb. 2	W.			18.25			34.4	34.5
3	W.			18.27			34.0	34.3
Feb. 4	W.			18.23			33.5	34.2
Means	W.	4	44	18.262	+66	10	33.92	34.36
	E.			18.246			36.32	35.14

i Tauri

1902	Cl.	h	m	s	°	′	″	″
Mar. 10	E.	4	45	38.41	+18	40	....	24.3
Mar. 11	E.			38.44			....	24.3
Mean	E.	4	45	38.425	+18	40	.....	24.30

Circle A. B.

π^5 Orionis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	4	49	8.80	+2	16	50.0	48.7
12	E.			8.69			49.5	48.2
13	E.			8.76			50.3	49.0
14	E.			8.74			49.8	48.9
16	E.			8.77			49.9	49.0
17	W.			8.75			50.7	50.5
Jan. 28	W.			8.79			49.6	49.9
Feb. 2	W.			8.73			49.8	49.9
3	W.			8.70			50.4	50.8
Feb. 4	W.			8.76			49.8	50.0
Means	W.	4	49	8.746	+2	16	50.06	50.22
	E.			8.752			49.90	48.76

η Aurigæ

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	4	59	38.47	+41	6	8.1	8.7
12	E.			38.49			8.3	8.2
13	E.			38.44			7.5	7.4
14	E.			38.44			8.4	7.9
16	E.			38.51			8.2	8.6
17	W.			38.40			7.2	8.2
Jan. 28	W.			38.42			7.1	7.8
Feb. 2	W.			38.38			7.0	8.3
3	W.			38.38			6.8	7.5
Feb. 4	W.			38.40			7.2	7.6
Means	W.	4	59	38.396	+41	6	7.06	7.88
	E.			38.470			8.10	8.16

ε Leporis

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	5	1	18.77	−22	30	....	8.4
10	E.			18.79			....	8.6
Mar. 11	E.			18.74			....	8.7
Mean	E.	5	1	18.767	−22	30	.....	8.57

β Eridani

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	5	3	1.87	−5	12	45.5	47.4
12	E.			1.88			45.9	47.0
13	E.			1.95			46.3	47.6
14	E.			1.87			46.9	47.7
Jan. 16	E.			1.84			45.2	47.0
Feb. 2	W.			1.91			47.7	46.7
3	W.			1.87			46.6	45.5
Feb. 4	W.			1.86			47.4	46.2
Means	W.	5	3	1.880	−5	12	47.23	46.13
	E.			1.882			45.96	47.34

19 H. Camelopardalis

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	5	6	23.85	+79	7	....	7.8
10	E.			23.88			....	7.9
Mar. 11	E.			23.81			....	8.4
Mean	E.	5	6	23.847	+79	7	.....	8.03

19 H. Camelopardalis S. P.

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	5	6	23.71	+79	7	....	8.7
20	E.			23.87			....	7.6
Mar. 22	E.			23.79			....	8.9
May 29	W.			23.91			9.3	8.8
May 30	W.			24.18			8.5	8.4
June 1	W.			23.82			10.1	9.3
2	W.			23.87			9.9	9.7
4	W.			23.94			9.2	8.6
5	E.			23.81			8.8	8.6
6	E.			24.04			9.3	8.8
8	E.			23.93			8.8	8.4
9	E.			24.12			9.5	8.1
June 10	E.			24.03			9.4	8.6
Means	W.	5	6	23.944	+79	7	9.40	8.96
	E.			23.912			9.16	8.46

Circle A. B.

μ Aurigæ

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	5	6	43.29	+38	22	8.3	8.0
12	E.			43.29			7.8	7.7
13	E.			43.26			7.4	7.8
14	E.			43.29			8.1	8.3
16	E.			43.31			7.6	8.1
17	W.			43.24			6.9	7.1
Jan. 28	W.			43.20			6.8	7.2
Feb. 2	W.			43.26			6.5	6.8
3	W.			43.24			7.6	6.7
Feb. 4	W.			43.26			7.2	6.7
Means	W.	5	6	43.240	+38	22	7.00	6.90
	E.			43.288			7.84	7.98

α Aurigæ

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	5	9	26.88	+45	53	55.7	55.5
12	E.			26.88			56.5	56.0
13	E.			26.87			55.5	55.3
14	E.			26.86			55.8	56.1
16	E.			26.95			55.2	55.7
17	W.			26.82			55.0	55.1
Jan. 28	W.			26.84			55.3	54.5
Feb. 2	W.			26.89			54.9	54.9
3	W.			26.80			55.8	55.9
Feb. 4	W.			26.79			56.0	55.5
Means	W.	5	9	26.828	+45	53	55.40	55.18
	E.			26.888			55.74	55.72

τ Orionis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	5	12	50.89	−6	56	59.8	60.8
12	E.			50.91			59.9	59.4
13	E.			50.87			59.9	60.5
14	E.			50.87			60.2	60.5
17	W.			50.88			60.0	59.2
Jan. 28	W.			50.86			60.6	59.6
Feb. 2	W.			50.90			60.7	59.2
3	W.			50.82			60.4	59.3
Feb. 4	W.			50.92			59.2	58.4
Mar. 9	E.			50.88			....	60.7
10	E.			50.88			....	61.0
Mar. 11	E.			50.88			....	60.7
Means	W.	5	12	50.876	−6	56	60.18	59.14
	E.			50.883			59.95	60.51

B. D. +37° 1175

1902	Cl.	h	m	s	°	′	″	″
Jan. 12	E.	5	17	59.53	+37	17	38.4	37.6
13	E.			59.53			38.3	37.1
14	E.			59.57			39.1	37.8
16	E.			59.57			38.6	37.9
17	W.			59.50			37.5	37.9
Jan. 28	W.			59.42			38.3	37.7
Feb. 2	W.			59.48			37.4	38.8
3	W.			59.45			38.2	37.4
Feb. 4	W.			59.48			38.2	37.9
Means	W.	5	17	59.466	+37	17	37.92	37.94
	E.			59.550			38.60	37.60

17 Camelopardalis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	5	20	54.74	+62	59	9.8	7.0
12	E.			54.77			8.2	7.6
13	E.			54.76			7.9	6.5
14	E.			54.78			9.1	7.8
16	E.			54.83			8.8	7.9
17	W.			54.71			6.2	7.2
Jan. 28	W.			54.74			6.8	8.2
Feb. 2	W.			54.72			6.4	7.3
3	W.			54.75			6.9	8.0
Feb. 4	W.			54.72			7.0	7.5
Mar. 9	E.			54.78			....	8.3
10	E.			54.66			....	8.3
Mar. 11	E.			54.72			....	8.7
Means	W.	5	20	54.728	+62	59	6.66	7.64
	E.			54.755			8.76	7.76

Circle A. B.

χ Aurigæ

1902	Cl.	h	m	s	°	′	″	″
Jan. 12	E.	5	26	20.97	+32	7	11.5	11.6
13	E.			20.94			11.7	11.4
14	E.			20.93			12.0	11.7
16	E.			20.91			11.5	11.2
17	W.			20.89			10.4	11.4
Jan. 28	W.			20.88			11.2	10.9
Feb. 2	W.			20.87			10.3	10.7
3	W.			20.88			11.1	11.3
Feb. 4	W.			20.88			10.9	10.9
Means	W.	5	26	20.880	+32	7	10.78	11.04
	E.			20.938			11.68	11.48

74 B. Camelopardalis

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	5	26	37.07	+74	58	....	45.6
10	E.			37.01			...	44.7
Mar. 11	E.			37.02			....	44.9
Mean	E.	5	26	37.033	+74	58	.....	45.07

74 B. Camelopardalis s. p.

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	5	26	36.84	+74	58	....	46.1
20	E.			36.92			....	46.8
Mar. 22	E.			36.96			....	47.7
Mean	E.	5	26	36.907	+74	58	.....	46.87

α Leporis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	5	28	24.52	−17	53	31.2	32.8
12	E.			24.47			32.4	33.2
13	E.			24.49			31.8	32.4
14	E.			24.51			32.2	33.0
16	E.			24.46			31.7	32.1
17	W.			24.48			31.7	32.3
Jan. 28	W.			24.44			32.4	33.2
Feb. 2	W.			24.50			31.7	32.2
3	W.			24.43			31.8	32.3
Feb. 4	W.			24.44			31.4	31.4
Means	W.	5	28	24.458	−17	53	31.80	32.28
	E.			24.490			31.86	32.70

158 H$^{\mathrm{I}}$. Cephei

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	5	30	32.21	+85	8	....	53.1
10	E.			32.26			....	53.5
Mar. 11	E.			31.86			....	54.6
Mean	E.	5	30	32.110	+85	8	.....	53.73

158 H$^{\mathrm{I}}$. Cephei s. p.

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	5	30	31.99	+85	8	....	54.7
20	E.			31.87			....	54.8
Mar. 22	E.			31.85			....	55.4
Mean	E.	5	30	31.903	+85	8	.....	54.97

ε Orionis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	5	31	14.47	−1	15	51.6	51.2
12	E.			14.42			52.3	50.7
13	E.			14.42			52.1	51.9
14	E.			14.42			51.3	51.1
16	E.			14.42			52.5	51.2
17	W.			14.45			50.6	50.9
Jan. 28	W.			14.40			50.8	52.5
Feb. 2	W.			14.44			50.2	51.5
3	W.			14.44			49.5	50.2
Feb. 4	W.			14.40			49.5	50.8
Means	W.	5	31	14.426	−1	15	50.12	51.18
	E.			14.430			51.96	51.22

Circle A. B.

B. D. +40° 1369

1902	Cl.	h	m	s	°	′	″	″
Jan. 12	E.	5	34	12.27	+40	49	47.6	47.3
13	E.			12.27			48.3	48.4
14	E.			12.28			48.0	47.3
16	E.			12.36			48.7	47.2
17	W.			12.23			45.6	46.4
Jan. 28	W.			12.20			46.0	46.1
Feb. 2	W.			12.21			45.0	45.9
3	W.			12.24			46.9	48.0
Feb. 4	W.			12.34			46.8	46.5
Means	W.	5	34	12.244	+40	49	46.06	46.58
	E.			12.295			48.15	47.55

α Columbæ

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	5	36	6.01	−34	7	32.0	33.5
12	E.			5.99			35.2	34.9
13	E.			6.01			33.0	34.5
14	E.			6.05			34.7	36.1
16	E.			6.04			32.9	35.0
17	W.			5.96			32.9	33.6
Jan. 28	W.			5.99			34.2	36.0
Feb. 2	W.			6.04			33.3	32.5
3	W.			6.03			32.4	31.9
Feb. 4	W.			6.01			31.9	32.1
Means	W.	5	36	6.006	−34	7	32.94	33.22
	E.			6.020			33.56	34.80

o Aurigæ

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	5	38	18.48	+49	46	62.2	61.8
12	E.			18.46			60.8	61.4
13	E.			18.48			60.8	62.3
14	E.			18.48			61.9	62.4
16	E.			18.49			61.2	62.2
17	W.			18.47			62.4	60.3
Jan. 28	W.			18.43			62.2	60.0
Feb. 2	W.			18.47			60.9	60.1
3	W.			18.50			62.7	61.0
Feb. 4	W.			18.53			62.0	59.6
Means	W.	5	38	18.480	+49	47	2.04	0.20
	E.			18.478			1.38	2.02

κ Orionis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	5	43	6.48	−9	42	16.1	16.0
12	E.			6.51			16.0	15.5
13	E.			6.56			17.0	15.8
14	E.			6.55			16.2	16.2
16	E.			6.58			15.4	15.6
Jan. 17	W.			6.52			15.8	15.1
Feb. 2	W.			6.52			16.0	15.8
3	W.			6.49			15.4	14.4
Feb. 4	W.			6.53			14.8	14.7
Means	W.	5	43	6.515	−9	42	15.50	15.00
	E.			6.536			16.14	15.82

α Orionis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	5	49	52.00	+7	23	20.5	20.6
12	E.			51.99			19.8	21.1
13	E.			52.00			19.6	20.3
14	E.			51.98			20.1	21.4
16	E.			51.97			19.2	20.9
Jan. 17	W.			51.97			21.6	21.9
Feb. 2	W.			52.04			20.2	21.1
3	W.			52.00			19.9	21.4
Feb. 4	W.			52.01			21.8	21.8
Means	W.	5	49	52.005	+7	23	20.88	21.55
	E.			51.988			19.84	20.86

Circle A. B.

β Aurigæ

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	5	52	20.39	+44	56	17.3	15.4
12	E.			20.40			16.6	16.5
13	E.			20.35			16.1	16.3
14	E.			20.37			16.7	16.0
16	E.			20.39			16.7	15.8
Jan. 17	W.			20.35			16.0	15.9
Feb. 2	W.			20.34			15.2	15.8
3	W.			20.31			15.7	16.1
Feb. 4	W.			20.32			17.3	17.1
Means	W.	5	52	20.330	+44	56	16.05	16.22
	E.			20.380			16.68	16.00

θ Aurigæ

1902	Cl.	h	m	s	°	′	″	″
Mar. 23	E.	5	53	2.31	+37	12	....	21.7
Mar. 25	E.			2.32			....	21.1
Mean	E.	5	53	2.315	+37	12	.....	21.40

1 Geminorum

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	5	58	9.82	+23	16	....	....
Mar. 11	E.			9.84			....	....
Mean	E.	5	58	9.830	+23	16	.....	.....

η Geminorum

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	6	8	57.69	+22	32	8.4	7.1
12	E.			57.75			7.8	7.1
13	E.			57.71			8.2	7.1
14	E.			57.71			8.7	8.1
Jan. 17	W.			57.69			6.9	7.2
Feb. 2	W.			57.75			6.9	7.0
3	W.			57.69			7.4	7.3
Feb. 4	W.			57.66			7.2	7.3
Mar. 9	E.			57.74			....	6.9
10	E.			57.75			....	...
23	E.			57.70			....	7.1
Mar. 25	E.			57.73			....	7.1
Means	W.	6	8	57.698	+22	32	7.10	7.20
	E.			57.722			8.28	7.21

23 H. Camelopardalis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	6	29	31.33	+79	40	15.6	15.6
12	E.			31.22			15.5	15.4
13	E.			31.25			16.6	16.1
14	E.			31.18			16.0	16.5
16	E.			31.28			15.9	16.6
Jan. 17	W.			31.03			15.9	15.6
Feb. 2	W.			31.01			15.3	15.1
3	W.			31.09			15.7	15.1
Feb. 4	W.			31.09			14.9	14.6
Mar. 23	E.			30.95			....	16.5
Mar. 25	E.			30.87			....	15.7
Means	W.	6	29	31.055	+79	40	15.45	15.10
	E.			31.154			15.92	16.06

51 Aurigæ

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	6	31	52.24	+39	28	38.5	37.9
12	E.			52.15			38.1	38.6
13	E.			52.20			38.6	38.4
14	E.			52.19			38.3	38.3
16	E.			52.22			38.7	38.0
Jan. 17	W.			52.12			38.2	39.0
Feb. 2	W.			52.12			37.6	37.9
3	W.			52.09			37.5	37.2
Feb. 4	W.			52.12			38.0	38.0
Means	W.	6	31	52.112	+39	28	37.82	38.02
	E.			52.200			38.44	38.24

Circle A. B.

S Monocerotis

1902	Cl.	h	m	s	°	′	″	″
Jan. 12	E.	6	35	34.87	+9	59	12.5	13.0
13	E.			34.89			12.2	12.9
14	E.			34.87			12.6	12.7
16	E.			34.88			11.7	12.4
Jan. 17	W.			34.86			12.3	12.1
Feb. 2	W.			34.87			11.4	11.3
3	W.			34.85			12.4	12.3
Feb. 4	W.			34.85			12.4	11.7
Means	W.	6	35	34.858	+9	59	12.12	11.85
	E			34.878			12.25	12.75

ε Geminorum

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	6	37	54.19	+25	13	41.6	42.4
12	E.			54.24			41.6	42.6
13	E.			54.17			42.0	42.2
14	E.			54.20			41.9	42.8
16	E.			54.25			42.4	41.8
Jan. 17	W.			54.20			40.8	43.5
Feb. 2	W.			54.16			40.2	42.0
Feb. 3	W.			54.25			42.1	44.7
Mar. 23	E.			54.20			....	42.0
Mar. 25	E.			54.20			....	41.7
Means	W.	6	37	54.203	+25	13	41.03	43.40
	E.			54.207			41.90	42.21

ξ Geminorum

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	6	39	47.34	+13	0	7.2	5.6
12	E.			47.38			7.1	4.8
13	E.			47.38			6.7	5.1
14	E.			47.41			7.4	5.8
16	E.			47.38			6.9	5.5
Jan. 17	W.			47.38			4.8	7.4
Feb. 2	W.			47.35			3.8	6.3
Feb. 3	W.			47.43			5.7	6.5
Means	W.	6	39	47.387	+13	0	4.77	6.73
	E.			47.378			7.06	5.36

18 Monocerotis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	6	42	45.05	+2	31	12.1	11.5
12	E.			45.01			11.6	11.7
13	E.			45.05			12.3	11.4
14	E.			45.08			11.5	11.8
16	E.			45.06			11.9	11.5
Jan. 17	W.			45.04			11.0	10.9
Feb. 2	W.			45.04			9.7	11.2
3	W.			45.08			10.4	12.7
Feb. 4	W.			45.08			11.4	12.7
Means	W.	6	42	45.060	+2	31	10.62	11.88
	E.			45.050			11.88	11.58

24 H. Camelopardalis

1902	Cl.	h	m	s	°	′	″	″
Mar. 23	E.	6	45	46.85	+77	6	....	8.6
Mar. 25	E.			46.92			....	8.4
Mean	E.	6	45	46.885	+77	6	.....	8.50

24 H. Camelopardalis S. P.

1902	Cl.	h	m	s	°	′	″	″
Mar. 25	E.	6	45	46.84	+77	6	....	9.9

θ Geminorum

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	6	46	19.88	+34	4	46.5	47.1
12	E.			19.91			46.9	47.7
13	E.			19.85			46.5	46.9
14	E.			19.81			47.5	47.5
16	E.			19.84			46.5	47.1
Jan. 17	W.			19.88			46.4	46.9
Feb. 2	W.			19.87			46.1	47.6
3	W.			19.86			46.9	48.6
Feb. 4	W.			19.87			47.3	47.6
Means	W.	6	46	19.870	+34	4	46.68	47.68
	E.			19.858			46.78	47.26

Circle A. B.

15 Lyncis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	6	48	47.62	+58	33	6.0	6.0
12	E.			47.57			5.3	6.9
13	E.			47.61			5.3	6.2
14	E.			47.52			5.8	6.8
16	E.			47.63			5.3	6.9
Jan. 17	W.			47.57			5.1	6.6
Feb. 2	W.			47.54			4.5	5.4
3	W.			47.60			3.8	6.5
Feb. 4	W.			47.56			5.4	6.8
Means	W.	6	48	47.568	+58	33	4.70	6.32
	E.			47.590			5.54	6.56

51 H. Cephei

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	6	54	43.82	+87	12	11.2	10.9
12	E.			43.40			12.0	10.5
13	E.			43.49			11.2	10.4
14	E.			43.21			11.6	9.5
16	E.			44.04			10.9	10.5
Jan. 17	W.			43.37			11.5	10.6
Feb. 2	W.			43.09			10.3	10.5
3	W.			43.54			12.0	....
Feb. 4	W.			43.30			12.0	10.1
Mar. 23	E.			43.61			....	11.1
Mar. 25	E.			43.53			....	10.2
Means	W.	6	54	43.325	+87	12	11.45	10.40
	E.			43.586			11.38	10.44

51 H. Cephei S. P.

1902	Cl.	h	m	s	°	′	″	″
Mar. 23	E.	6	54	42.94	+87	12	....	11.8
Mar. 25	E.			43.17			....	11.5
Aug. 19	E.			.....			12.5	13.4
Mean	E.	6	54	43.055	+87	12	12.5	12.23

γ Canis Majoris

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	6	59	19.48	−15	29	17.0	17.9
12	E.			19.51			17.4	18.1
13	E.			19.42			16.8	17.7
14	E.			19.45			17.0	18.4
16	E.			19.47			17.3	18.1
Jan. 17	W.			19.49			18.0	17.3
Feb. 2	W.			19.47			19.7	16.9
Feb. 4	W.			19.49			17.8	17.5
Means	W.	6	59	19.483	−15	29	18.50	17.23
	E.			19.466			17.10	18.04

B. D. +37° 1660

1902	Cl.	h	m	s	°	′	″	″
Jan. 12	E.	7	1	58.69	+37	35	55.6	55.6
13	E.			58.64			55.1	55.4
14	E.			58.63			55.7	56.2
16	E.			58.67			55.7	55.7
Jan. 17	W.			58.61			55.6	55.8
Feb. 2	W.			58.62			55.4	56.0
3	W.			58.60			55.3	55.5
Feb. 4	W.			58.60			55.1	55.6
Means	W.	7	1	58.608	+37	35	55.35	55.72
	E.			58.658			55.52	55.72

δ Canis Majoris

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	7	4	24.39	−26	14	13.9	15.1
12	E.			24.46			13.9	14.5
13	E.			24.42			14.0	15.6
14	E.			24.42			13.5	15.3
16	E.			24.34			13.9	15.3
Jan 17	W.			24.42			14.5	14.1
Feb. 2	W.			24.43			14.4	14.7
3	W.			24.41			14.3	14.4
Feb. 4	W.			24.47			15.3	14.9
Means	W.	7	4	24.432	−26	14	14.62	14.52
	E.			24.406			13.84	15.16

Circle A. B.

63 Aurigæ

1902	Cl.	h	m	s	°	′	″	″
Mar. 23	E.	7	4	55.02	+39	28	....	50.9
Mar. 25	E.			55.01			....	49.5
Mean	E.	7	4	55.015	+39	28	.....	50.20

19 Lyncis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	7	14	52.49	+55	27	59.6	58.2
12	E.			52.42			58.1	58.0
13	E.			52.38			58.5	58.2
14	E.			52.43			58.6	58.0
Jan. 17	W.			52.39			59.0	58.8
Feb. 2	W.			52.42			58.3	58.6
3	W.			52.39			58.9	59.3
Feb. 4	W.			52.40			59.0	58.8
Means	W.	7	14	52.400	+55	27	58.80	58.88
	E.			52.430			58.70	58.10

ι Geminorum

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	7	19	38.52	+27	59	35.9	35.7
12	E.			38.47			34.7	35.9
13	E.			38.45			35.7	35.9
14	E.			38.48			35.2	36.1
16	E.			38.51			35.6	35.4
Jan. 17	W.			38.48			34.1	34.4
Feb. 2	W.			38.49			33.9	33.1
3	W.			38.43			34.7	34.6
Feb. 4	W.			38.40			34.2	32.8
Means	W.	7	19	38.450	+27	59	34.22	33.72
	E.			38.486			35.42	35.80

ρ Geminorum

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	7	22	48.57	+31	58	46.7	46.5
12	E.			48.57			46.5	47.0
13	E.			48.58			46.3	45.6
14	E.			48.56			46.7	46.5
16	E.			48.63			46.8	46.1
Jan. 17	W.			48.53			45.7	46.5
Feb. 2	W.			48.58			45.5	45.5
3	W.			48.52			46.2	46.4
Feb. 4	W.			48.55			45.1	46.1
Means	W.	7	22	48.545	+31	58	45.62	46.12
	E.			48.582			46.60	46.34

α Geminorum

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	7	28	20.94	+32	6	13.7	13.7
12	E.			20.94			13.2	14.1
13	E.			20.91			14.1	14.6
14	E.			20.92			13.9	14.4
16	E.			20.93			13.6	14.0
Jan. 17	W.			20.92			13.7	13.8
Feb. 2	W.			20.98			12.8	12.8
3	W.			20.89			13.2	13.7
Feb. 4	W.			20.88			13.5	12.5
Means	W.	7	28	20.918	+32	6	13.30	13.20
	E.			20.928			13.70	14.16

B. D. +40° 1903

1902	Cl.	h	m	s	°	′	″	″
Jan. 12	E.	7	30	35.48	+40	14	38.6	39.4
13	E.			35.49			39.7	40.1
14	E.			35.56			39.4	39.8
16	E.			35.53			39.4	40.0
Jan. 17	W.			35.43			39.0	39.6
Feb. 2	W.			35.50			38.9	39.8
3	W.			35.46			40.1	41.4
Feb. 4	W.			35.53			39.5	40.0
Means	W.	7	30	35.480	+40	14	39.38	40.20
	E.			35.515			39.28	39.82

Circle A. B.

24 Lyncis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	7	34	43.14	+58	56	23.7	24.9
12	E.			43.08			22.9	24.2
13	E.			43.15			23.3	24.5
14	E.			43.13			23.7	24.4
16	E.			43.22			23.8	24.4
Jan. 17	W.			43.12			22.9	25.1
Feb. 2	W.			43.15			23.5	23.8
3	W.			43.09			23.3	24.7
Feb. 4	W.			43.13			22.4	22.9
Means	W.	7	34	43.122	+58	56	23.02	24.12
	E.			43.144			23.48	24.48

β Geminorum

1902	Cl.	h	m	s	°	′	″	″
Jan. 12	E.	7	39	19.22	+28	15	46.0	47.6
13	E.			19.25			46.1	46.9
14	E.			19.22			46.6	47.9
16	E.			19.28			46.5	47.5
Jan. 17	W.			19.22			47.5	47.4
Feb. 2	W.			19.27			47.0	46.1
3	W.			19.23			47.1	46.7
Feb. 4	W.			19.25			46.6	45.8
Means	W.	7	39	19.242	+28	15	47.05	46.50
	E.			19.242			46.30	47.48

π Geminorum

1902	Cl.	h	m	s	°	′	″	″
Jan. 12	E.	7	41	11.40	+33	39	24.0	24.1
13	E.			11.34			24.3	24.1
14	E.			11.34			24.4	24.5
16	E.			11.46			24.2	24.2
Jan. 17	W.			11.31			21.8	23.8
Feb. 2	W.			11.39			21.5	22.9
3	W.			11.33			22.3	23.9
Feb. 4	W.			11.36			22.2	22.9
Means	W.	7	41	11.348	+33	39	21.95	23.38
	E.			11.385			24.22	24.22

ξ Argus

1902	Cl.	h	m	s	°	′	″	″
Mar. 14	E.	7	45	10.39	−24	36	48.9	48.2

166 B. Camelopardalis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	7	48	28.72	+74	10	49.3	47.4
12	E.			28.72			47.8	48.0
13	E.			28.74			47.7	47.0
14	E.			28.54			48.7	48.2
16	E.			28.74			47.9	46.8
Jan. 17	W.			28.59			47.2	47.0
Feb. 2	W.			28.58			45.8	46.6
3	W.			28.68			45.5	47.3
Feb. 4	W.			28.63			45.9	46.5
Means	W.	7	48	28.620	+74	10	46.10	46.85
	E.			28.692			48.28	47.48

ω^1 Cancri

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	7	55	0.16	+25	39	42.5	40.8
12	E.			0.17			41.3	41.0
13	E.			0.18			41.7	40.3
14	E.			0.17			41.3	40.9
16	E.			0.09			42.2	41.4
Jan. 17	W.			0.15			39.8	40.6
Feb. 2	W.			0.17			38.7	39.3
3	W.			0.16			39.2	40.6
Feb. 4	W.			0.17			39.7	40.1
Mar. 14	E.			0.17			41.8	41.1
Means	W.	7	55	0.162	+25	39	39.35	40.15
	E.			0.157			41.80	40.92

Circle A. B.

χ Geminorum

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	7	57	30.02	+28	4	9.3	11.2
12	E.			30.05			7.9	11.0
13	E.			30.03			9.0	10.8
14	E.			30.02			9.0	11.0
16	E.			30.01			8.9	11.1
Jan. 17	W.			30.05			10.0	9.1
Feb. 2	W.			30.06			9.5	9.1
3	W.			30.09			9.5	8.8
Feb. 4	W.			30.05			10.0	9.3
Mar. 14	E.			30.08			9.3	10.7
Means	W.	7	57	30.062	+28	4	9.75	9.08
	E.			30.035			8.90	10.97

27 Lyncis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	8	1	5.22	+51	47	23.5	21.6
12	E.			5.31			21.9	22.4
13	E.			5.36			22.7	21.7
14	E.			5.27			22.2	23.0
16	E.			5.32			22.7	21.9
Jan. 17	W.			5.31			22.5	22.2
Feb. 2	W.			5.30			21.4	21.3
3	W.			5.31			21.1	21.9
Feb. 4	W.			5.25			21.3	21.5
Mar. 14	E.			5.35			22.8	21.4
Means	W.	8	1	5.292	+51	47	21.58	21.72
	E.			5.305			22.63	22.00

ρ Argus

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	8	3	22.18	−24	1	15.6	17.7
12	E.			22.27			17.0	17.3
13	E.			22.21			16.1	18.1
14	E.			22.23			16.6	17.2
16	E.			22.24			17.7	18.2
Jan. 17	W.			22.23			18.4	17.2
Feb. 2	W.			22.28			18.4	17.6
3	W.			22.29			17.4	17.3
Feb. 4	W.			22.29			16.2	17.3
Means	W.	8	3	22.272	−24	1	17.60	17.35
	E.			22.226			16.60	17.70

ζ Cancri

1902	Cl.	h	m	s	°	′	″	″
Mar. 14	E.	8	6	35.53	+17	56	36.5	34.8

173 B. Camelopardalis

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	8	7	14.74	+76	3	23.8	22.1
12	E.			14.84			22.1	21.7
13	E.			14.79			22.9	22.2
14	E.			14.72			22.8	22.2
16	E.			14.76			22.8	22.4
Jan. 17	W.			14.68			23.5	22.8
Feb. 2	W.			14.66			22.5	23.6
3	W.			14.82			22.9	22.2
Feb. 4	W.			14.51			21.9	22.3
Means	W.	8	7	14.668	+76	3	22.70	22.72
	E.			14.770			22.88	22.12

d^1 Cancri

1902	Cl.	h	m	s	°	′	″	″
Mar. 14	E.	8	17	45.24	+18	38	51.0	49.2

ο Ursæ Majoris

1902	Cl.	h	m	s	°	′	″	″
Mar. 14	E.	8	22	7.58	+61	2	46.8	46.3

110 B. Lyncis

1902	Cl.	h	m	s	°	′	″	″
Mar. 14	E.	8	26	32.88	+38	21	11.1	10.5

Circle A. B.

γ Cancri

1902	Cl.	h	m	s	°	′	″	″
Mar. 14	E.	8	37	36.99	+21	49	17.6	18.8

ι Cancri

1902	Cl.	h	m	s	°	′	″	″
Mar. 14	E.	8	40	46.14	+29	7	6.6	7.0

1 H. Draconis

1902	Cl.	h	m	s	°	′	″	″
Mar. 26	E.	9	23	8.90	+81	45	35.7	....
29	E.			9.23			34.7	34.5
Mar. 30	E.			9.07			35.4	34.9
Apr. 3	E.			8.96			36.1	35.6
5	E.			8.87			36.0	34.2
12	E.			8.89			33.8	33.2
13	E.			8.99			35.4	34.9
20	W.			8.71			35.3	38.3
21	W.			9.01			35.2	38.3
22	W.			8.89			35.2	37.4
23	W.			9.24			34.7	36.8
24	W.			8.73			34.9	36.6
27	W.			8.91			35.0	36.2
Apr. 30	W.			.....			34.9	36.3
May 1	W.			8.66			35.0	36.8
Means	W.	9	23	8.879	+81	45	35.02	37.09
	E.			8.987			35.30	34.55

β Leonis

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	11	44	3.69	+15	7	12.4	....
Jan. 6	E.			3.66			12.6	....
Mean	E.	11	44	3.675	+15	7	12.50	.....

128 H^1. Camelopardalis

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	11	59	48.20	+86	7	48.3	....
Jan. 6	E.			47.67			49.0	....
Mean	E.	11	59	47.935	+86	7	48.65	.....

128 H^1. Camelopardalis S. P.

1902	Cl.	h	m	s	°	′	″	″
Jan. 8	E.	11	59	48.80	+86	7	47.8	....
Jan. 11	E.			49.41			47.2	....
Mean	E.	11	59	49.105	+86	7	47.50	.....

4 H. Draconis

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	12	7	36.82	+78	9	37.0	....
Jan. 6	E.			36.62			37.8	....
Mean	E.	12	7	36.720	+78	9	37.40	.....

4 H. Draconis S. P.

1902	Cl.	h	m	s	°	′	″	″
Jan. 8	E.	12	7	36.90	+78	9	38.5	....
Jan. 11	E.			36.82			37.1	....
Mean	E.	12	7	36.860	+78	9	37.80	.....

5 B. Ursæ Minoris

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	12	13	57.98	+86	58	49.0	....
Jan. 6	E.			57.74			49.9	....
Mean	E.	12	13	57.860	+86	58	49.45	.....

5 B. Ursæ Minoris S. P.

1902	Cl.	h	m	s	°	′	″	″
Jan. 8	E.	12	13	59.28	+86	58	48.9	....
Jan. 11	E.			59.30			48.7	....
Mean	E.	12	13	59.290	+86	58	48.80	.....

Circle A. B.

6 B. Ursæ Minoris s. p.

1901	Cl.	h	m	s	°	′	″	″
Nov. 19	W.	12	14	22.48	+88	14	35.9	34.6
25	W.			24.86			35.3	34.1
26	W.			24.62			35.5	33.9
Nov. 27	W.			25.39			35.4	34.5
Dec. 2	W.			23.43			35.6	34.5
4	W.			24.44			34.9	34.3
6	W.			22.61			35.1	35.2
7	W.			23.87			35.3	34.4
8	W.			23.06			35.6	33.7
17	E.			23.86			35.6	35.7
22	E.			22.80			35.3	35.8
27	E.			24.21			35.8	35.9
Dec. 31	E.			22.70			35.3	35.9
1902								
Jan. 3	E.			23.34			36.3	36.5
Sept. 22	W.			23.54			35.2	33.9
23	W.			23.85			34.8	33.6
Sept. 29	W.			22.63			34.9	33.3
Oct. 1	W.			23.14			34.6	33.5
2	W.			23.22			34.9	33.7
Oct. 6	E.			23.20			35.7	34.1
Means	W.	12	14	23.653	+88	14	35.21	34.09
	E.			23.352			35.67	35.65

κ Draconis

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	12	29	18.18	+70	19	41.5	....
Jan. 6	E.			18.12			41.1	....
Mean	E.	12	29	18.150	+70	19	41.30	.....

κ Draconis s. p.

1901	Cl.	h	m	s	°	′	″	″
Dec. 2	W.	12	29	18.21	+70	19	43.4	44.5
4	W.			18.14			44.6	45.7
6	W.			18.35			41.6	44.7
7	W.			18.26			42.7	44.4
8	W.			18.36			43.1	43.1
17	E.			18.32			43.8	44.2
27	E.			18.26			43.2	43.6
Dec. 31	E.			18.44			41.8	42.5
1902								
Jan. 3	E.			18.08			45.0	45.7
8	E.			18.13			42.9	....
Jan. 11	E.			18.06			42.5	....
Means	W.	12	29	18.264	+70	19	43.08	44.48
	E.			18.215			43.20	44.00

32² H. Camelopardalis

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	12	48	23.89	+83	56	44.6	....
Jan. 6	E.			23.35			43.8	....
Mean	E.	12	48	23.620	+83	56	44.20	.....

32² H. Camelopardalis s. p.

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	12	48	24.07	+83	56	44.4	....
8	E.			23.99			44.7	....
11	E.			23.51			44.8	....
Jan. 20	W.			23.67			44.1	....
Means	W.	12	48	23.67	+83	56	44.1	.....
	E.			23.857			44.63	.....

12 Canum Venaticorum

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	12	51	26.67	+38	50	50.6	51.4
May 30	W.			26.65			50.1	51.2
June 1	W.			26.68			50.5	51.1
2	W.			26.67			50.5	51.3
4	W.			26.63			51.1	51.4
5	E.			26.71			52.1	53.2
6	E.			26.73			52.1	52.6
8	E.			26.68			52.1	52.3
9	E.			26.70			52.5	52.4
June 10	E.			26.79			51.9	51.9
Means	W.	12	51	26.660	+38	50	50.56	51.28
	E.			26.722			52.14	52.48

Circle A. B.

ε Virginis

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	12	57	17.95	+11	29	9.7	....
Jan. 6	E.			17.93			9.2	....
Mean	E.	12	57	17.940	+11	29	9.45	.....

θ Virginis

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	13	4	52.47	−5	0	55.5	....
Jan. 6	E.			52.55			56.1	....
Mean	E.	13	4	52.510	−5	0	55.80	.....

r Centauri

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	13	11	26.45	−30	59	14.3	....
Jan. 6	E.			26.46			15.1	....
Mean	E.	13	11	26.455	−30	59	14.70	.....

γ Hydræ

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	13	13	35.53	−22	39	16.2	....
Jan. 6	E.			35.52			17.0	....
May 29	W.			35.59			16.0	17.8
May 30	W.			35.57			16.1	16.2
June 1	W.			35.55			15.5	16.8
2	W.			35.58			15.2	15.8
4	W.			35.53			15.8	16.3
5	E.			35.52			15.5	15.9
6	E.			35.60			16.1	15.7
8	E.			35.52			16.4	17.8
9	E.			35.50			15.8	16.7
June 10	E.			35.50			15.9	15.0
Means	W.	13	13	35.564	−22	39	15.72	16.58
	E.			35.527			16.13	16.22

25 Canum Venaticorum

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	13	33	6.44	+36	47	35.4	36.0
May 30	W.			6.43			35.0	35.4
June 1	W.			6.43			35.6	36.0
2	W.			6.42			34.8	36.2
4	W.			6.46			36.2	36.2
5	E.			6.47			35.6	35.5
6	E.			6.42			36.8	35.7
8	E.			6.49			35.4	34.5
9	E.			6.53			35.7	35.1
June 10	E.			6.43			35.3	34.9
Means	W.	13	33	6.436	+36	47	35.40	35.96
	E.			6.468			35.76	35.14

13 B. Ursæ Minoris

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	13	34	49.72	+71	44	25.8	....
Jan. 6	E.			49.63			26.6	....
Mean	E.	13	34	49.675	+71	44	26.20	.....

13 B. Ursæ Minoris s. p.

1902	Cl.	h	m	s	°	′	″	″
Jan. 4	E.	13	34	49.65	+71	44	26.2	....
5	E.			49.58			27.0	....
Jan. 20	W.			49.54			28.0	....
Means	W.	13	34	49.54	+71	44	28.0	.....
	E.			49.615			26.60	.....

m Virginis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	13	36	28.03	−8	12	31.3	30.8
May 30	W.			28.10			31.4	30.6
June 1	W.			28.05			31.3	30.3
2	W.			28.05			31.4	30.0
4	W.			28.07			31.5	30.3
5	E.			28.01			30.5	29.7
6	E.			28.03			30.4	30.3
8	E.			28.02			30.5	30.5
9	E.			27.99			30.3	30.8
June 10	E.			28.05			30.8	30.1
Means	W.	13	36	28.060	−8	12	31.38	30.40
	E.			28.020			30.50	30.28

Circle A. B.

τ Bootis

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	13	42	36.32	+17	56	43.1	....
Jan. 6	E.			36.29			42.2	....
May 29	W.			36.33			42.6	41.6
May 30	W.			36.32			42.0	41.2
June 1	W.			36.33			42.6	41.5
2	W.			36.34			42.3	41.8
4	W.			36.34			43.2	42.3
5	E.			36.30			43.1	42.7
6	E.			36.34			43.2	42.1
8	E.			36.33			43.9	41.6
9	E.			36.26			43.7	42.1
June 10	E.			36.26			42.8	41.7
Means	W.	13	42	36.332	+17	56	42.54	41.68
	E.			36.300			43.14	42.04

89 Virginis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	13	44	32.74	−17	38	44.8	44.8
May 30	W.			32.73			45.5	44.6
June 1	W.			32.73			44.6	45.1
2	W.			32.75			45.3	44.2
4	W.			32.71			44.3	44.3
5	E.			32.64			45.6	44.9
6	E.			32.70			45.1	44.9
8	E.			32.72			45.2	45.6
9	E.			32.60			45.1	45.5
June 10	E.			32.66			45.3	46.0
Means	W.	13	44	32.732	−17	38	44.90	44.60
	E.			32.664			45.26	45.38

B. D. +40° 2701

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	13	47	36.30	+40	9	13.8	13.9
May 30	W.			36.31			14.7	15.4
June 1	W.			36.31			14.1	14.3
2	W.			36.38			14.9	16.2
4	W.			36.33			14.9	15.3
5	E.			36.38			16.7	16.7
6	E.			36.33			16.4	15.7
8	E.			36.40			16.9	16.4
9	E.			36.34			15.7	16.0
June 10	E.			36.35			16.9	16.3
Means	W.	13	47	36.326	+40	9	14.48	15.02
	E.			36.360			16.52	16.22

i Draconis

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	13	48	34.18	+65	12	27.4	....
Jan. 6	E.			34.21			26.7	....
Mean	E.	13	48	34.195	+65	12	27.05	.....

η Bootis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	13	50	1.12	+18	53	20.1	20.3
May 30	W.			1.10			20.0	20.3
June 1	W.			1.11			20.2	20.0
2	W.			1.12			20.1	20.3
4	W.			1.12			20.7	20.6
5	E.			1.12			21.0	20.7
6	E.			1.09			20.0	20.4
8	E.			1.13			20.4	20.8
9	E.			1.11			20.0	20.0
June 10	E.			1.10			20.2	21.0
Means	W.	13	50	1.114	+18	53	20.22	20.30
	E.			1.110			20.32	20.58

Circle A. B.

τ Virginis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	13	56	39.49	+2	1	6.6	9.0
May 30	W.			39.51			7.0	8.7
June 1	W.			39.52			6.6	8.9
2	W.			39.49			6.9	9.1
4	W.			39.48			7.9	9.4
5	E.			39.44			8.4	8.9
6	E.			39.46			8.1	8.3
8	E.			39.48			8.3	8.6
9	E.			39.45			8.7	8.2
June 10	E.			39.45			7.7	8.9
Means	W.	13	56	39.498	+2	1	7.00	9.02
	E.			39.456			8.24	8.58

π Hydræ

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	14	0	47.36	−26	12	35.2	....
Jan. 6	E.			47.29			35.5	....
Mean	E.	14	0	47.325	−26	12	35.35	.....

α Draconis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	14	1	44.14	+64	50	37.3	38.1
May 30	W.			44.12			37.1	38.5
June 1	W.			44.14			37.7	38.3
2	W.			44.10			36.9	38.4
4	W.			44.18			38.2	38.8
5	E.			44.18			39.8	39.0
6	E.			44.15			39.9	38.7
8	E.			44.13			40.2	38.8
9	E.			44.09			40.4	38.7
June 10	E.			44.12			40.1	37.8
Means	W.	14	1	44.136	+64	50	37.44	38.42
	E.			44.134			40.08	38.60

d Bootis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	14	5	55.79	+25	33	18.9	22.3
May 30	W.			55.78			20.4	22.1
June 1	W.			55.78			20.1	20.8
2	W.			55.78			19.8	22.3
4	W.			55.78			20.8	22.3
5	E.			55.80			21.4	22.3
6	E.			55.76			21.1	21.5
8	E.			55.77			21.3	21.3
9	E.			55.77			21.0	21.1
June 10	E.			55.79			20.7	21.0
Means	W.	14	5	55.782	+25	33	20.00	21.96
	E.			55.778			21.10	21.44

4 Ursæ Minoris

1902	Cl.	h	m	s	°	′	″	″
Jan. 5	E.	14	9	13.29	+78	0	29.7	....
Jan. 6	E.			13.23			29.1	....
May 29	W.			13.70			27.0	26.5
May 30	W.			13.48			27.0	28.2
June 1	W.			13.49			27.7	27.3
2	W.			13.51			27.4	28.1
4	W.			13.62			27.5	27.9
5	E.			13.64			28.6	29.1
6	E.			13.57			28.6	28.9
8	E.			13.48			29.1	28.7
9	E.			13.68			28.4	28.5
June 10	E.			13.47			28.1	28.3
Means	W.	14	9	13.560	+78	0	27.32	27.60
	E.			13.480			28.80	28.70

Circle A. B.

4 Ursæ Minoris S. P.

1901	Cl.	h	m	s	°	′	″	″
Nov. 27	W.	14	9	13.46	+78	0	28.1	28.3
1902								
Jan. 1	E.			13.55			28.1	....
4	E.			13.16			28.4	....
5	E.			13.26			28.8	....
Jan. 20	W.			13.09			30.1	....
Means	W.	14	9	13.275	+78	0	29.10	28.3
	E.			13.323			28.43	.....

λ Bootis

1902	Cl.	h	m	s	°	′	″	″
Jan. 6	E.	14	12	39.57	+46	32	19.0	.....

λ Virginis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	14	13	48.37	−12	55	12.5	11.9
May 30	W.			48.38			12.2	11.2
June 1	W.			48.33			12.4	12.2
2	W.			48.34			12.5	11.8
4	W.			48.35			11.0	10.8
5	E.			48.27			13.0	12.1
6	E.			48.37			13.2	12.5
8	E.			48.35			12.5	12.1
9	E.			48.30			13.0	12.7
June 10	E.			48.29			13.6	12.7
Means	W.	14	13	48.354	−12	55	12.12	11.58
	E.			48.316			13.06	12.42

θ Bootis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	14	21	51.65	+52	18	12.1	13.2
May 30	W.			51.65			12.2	12.8
June 1	W.			51.63			12.8	12.5
2	W.			51.61			12.2	13.2
4	W.			51.65			12.9	13.2
5	E.			51.69			14.5	13.1
6	E.			51.67			14.1	12.9
8	E.			51.62			14.5	12.4
9	E.			51.57			13.8	12.4
June 10	E.			51.65			15.2	12.6
Means	W.	14	21	51.638	+52	18	12.44	12.98
	E.			51.640			14.42	12.68

ρ Bootis

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	14	27	36.44	+30	48	5.3	5.9
23	E.			36.44			5.1	5.4
June 26	E.			36.40			....	6.1
Mean	E.	14	27	36.427	+30	48	5.20	5.80

5 Ursæ Minoris S. P.

1901	Cl.	h	m	s	°	′	″	″
Nov. 27	W.	14	27	43.87	+76	7	55.6	55.5
Dec. 4	W.			43.62			55.8	54.0
5	W.			43.74			55.6	54.3
6	W.			43.73			55.7	54.2
7	W.			43.54			55.6	54.3
8	W.			43.68			55.1	53.8
17	E.			43.50			52.9	53.6
18	E.			43.73			52.8	54.3
27	E.			43.59			52.0	53.9
Dec. 31	E.			43.67			52.1	54.2
1902								
Jan. 1	E.			43.51			51.9	....
4	E.			43.41			52.2	....
Jan. 5	E.			43.54			52.0	....
Means	W.	14	27	43.697	+76	7	55.57	54.35
	E.			43.564			52.27	54.00

Circle A. B.

γ Bootis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	14	28	7.89	+38	44	12.7	13.3
May 30	W.			7.92			12.6	13.1
June 1	W.			7.98			12.7	13.2
2	W.			7.92			12.3	13.4
4	W.			7.91			13.2	13.7
5	E.			8.00			12.6	13.4
6	E.			7.99			12.6	12.8
8	E.			7.97			12.4	12.5
9	E.			7.97			12.1	11.9
June 10	E.			8.02			12.6	11.9
Means	W.	14	28	7.924	+38	44	12.70	13.34
	E.			7.990			12.46	12.50

Mayer 591

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	14	29	19.73	−20	0	34.0	34.0
23	E.			19.73			34.3	32.4
June 26	E.			19.70			33.7	32.6
Mean	E.	14	29	19.720	−20	0	34.00	33.00

6 B. Libræ

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	14	31	46.89	−11	53	20.4	20.7
23	E.			46.86			19.8	20.4
June 26	E.			46.91			19.9	20.3
Mean	E.	14	31	46.887	−11	53	20.03	20.47

33 Bootis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	14	35	11.40	+44	49	38.4	38.6
May 30	W.			11.40			38.4	38.4
June 1	W.			11.41			38.1	37.7
2	W.			11.38			38.2	38.0
4	W.			11.39			38.4	38.4
5	E.			11.44			40.0	39.1
6	E.			11.43			40.5	39.1
8	E.			11.44			40.4	38.7
9	E.			11.42			40.2	38.7
June 10	E.			11.44			40.1	38.9
Means	W.	14	35	11.396	+44	49	38.30	38.22
	E.			11.434			40.24	38.90

π Bootis

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	14	36	7.25	+16	50	20.2	18.1
23	E.			7.24			20.1	18.7
June 26	E.			7.27			20.1	19.1
Mean	E.	14	36	7.253	+16	50	20.13	18.63

μ Virginis

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	14	37	53.67	−5	13	55.9	57.0
23	E.			53.69			55.8	57.1
June 26	E.			53.69			55.9	56.8
Mean	E.	14	37	53.683	−5	13	55.87	56.97

5 Libræ

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	14	40	33.47	−15	2	47.2	48.4
23	E.			33.45			47.0	48.5
June 26	E.			33.46			47.8	47.7
Mean	E.	14	40	33.460	−15	2	47.33	48.20

Circle A. B.

109 Virginis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	14	41	17.61	+2	18	20.9	21.4
May 30	W.			17.59			20.7	22.1
June 1	W.			17.62			20.7	21.5
2	W.			17.66			20.9	22.2
4	W.			17.62			21.5	22.1
5	E.			17.61			22.2	21.5
6	E.			17.60			22.3	20.6
8	E.			17.59			22.0	20.8
9	E.			17.60			21.5	21.3
June 10	E.			17.61			22.0	21.6
Means	W.	14	41	17.620	+2	18	20.94	21.86
	E.			17.602			22.00	21.16

α Libræ

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	14	45	27.43	−15	38	4.7	3.6
May 30	W.			27.37			4.7	3.1
June 1	W.			27.34			5.0	3.8
2	W.			27.36			4.5	3.2
4	W.			27.36			4.3	3.4
5	E.			27.34			4.6	4.6
6	E.			27.35			4.5	4.9
8	E.			27.29			3.9	4.3
9	E.			27.33			5.5	5.2
10	E.			27.29			4.5	5.1
21	E.			27.32			4.5	4.5
23	E.			27.33			4.8	5.4
June 26	E.			27.34			4.7	3.6
Means	W.	14	45	27.372	−15	38	4.64	3.42
	E.			27.324			4.62	4.70

61 B. Draconis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	14	48	57.12	+59	41	30.1	31.3
May 30	W.			57.15			29.7	31.3
June 1	W.			57.16			30.0	31.7
2	W.			57.15			30.2	31.6
4	W.			57.12			30.5	31.7
5	E.			57.16			32.7	33.2
6	E.			57.15			32.3	32.9
8	E.			57.14			32.5	33.0
9	E.			57.09			32.2	32.5
June 10	E.			.....			32.3	33.1
Means	W.	14	48	57.140	+59	41	30.10	31.52
	E.			57.135			32.40	32.94

ξ¹ Libræ

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	14	49	3.58	−11	29	53.9	54.1
23	E.			3.55			54.4	53.6
June 26	E.			3.58			54.8	54.4
Mean	E.	14	49	3.570	−11	29	54.37	54.03

β Ursæ Minoris S. P.

1901	Cl.	h	m	s	°	′	″	″
Nov. 15	W.	14	50	59.19	+74	33	21.4	21.6
19	W.			59.18			22.2	22.5
20	W.			59.43			21.0	22.0
Nov. 25	W.			59.31			23.3	23.2
1902								
Jan. 1	E.			59.00			21.6	....
4	E.			58.98			21.4	....
5	E.			58.99			20.9	....
Jan. 20	W.			58.93			22.7	....
Means	W.	14	50	59.208	+74	33	22.12	22.32
	E.			58.990			21.30	.....

Circle A. B.

ξ² Libræ

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	14	51	26.97	−11	0	50.9	51.1
23	E.			26.97			50.3	50.5
June 26	E.			26.96			50.6	51.5
Mean	E.	14	51	26.967	−11	0	50.60	51.03

δ Libræ

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	14	55	44.17	−8	7	47.8	48.2
23	E.			44.07			47.7	47.1
June 26	E.			44.14			48.0	47.9
Mean	E.	14	55	44.127	−8	7	47.83	47.73

β Bootis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	14	58	15.23	+40	46	36.7	36.4
May 30	W.			15.21			36.7	36.6
June 1	W.			15.20			36.6	36.7
2	W.			15.21			36.8	36.1
4	W.			15.20			36.6	36.0
5	E.			15.28			36.6	36.3
6	E.			15.27			36.8	36.2
8	E.			15.26			36.9	35.6
9	E.			15.25			36.3	36.2
June 10	E.			15.26			36.7	36.1
Means	W.	14	58	15.210	+40	46	36.68	36.36
	E.			15.264			36.66	36.08

γ Scorpii

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	14	58	19.93	−24	53	48.2	48.9
23	E.			19.94			47.8	49.1
June 26	E.			19.99			48.5	49.8
Mean	E.	14	58	19.953	−24	53	48.17	49.27

ψ Bootis

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	0	14.79	+27	19	47.1	47.9
23	E.			14.77			47.5	47.2
June 26	E.			14.78			47.9	47.8
Mean	E.	15	0	14.780	+27	19	47.50	47.63

c Bootis

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	2	59.83	+25	15	2.9	1.8
23	E.			59.81			2.9	1.9
June 26	E.			59.84			2.9	2.4
Mean	E.	15	2	59.827	+25	15	2.90	2.03

ι Libræ

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	6	38.02	−19	25	15.5	16.3
23	E.			37.99			16.0	15.6
June 26	E.			38.08			15.0	15.6
Mean	E.	15	6	38.030	−19	25	15.50	15.83

1 Lupi

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	8	36.96	−31	9	11.8	11.1
23	E.			36.94			10.2	9.8
June 26	E.			36.99			11.2	9.1
Mean	E.	15	8	36.963	−31	9	11.07	10.00

Circle A. B.

57 B. Ursæ Minoris S. P.

1902	Cl.	h	m	s	°	′	″	″
Jan. 1	E.	15	8	38.90	-87	36	36.1	....
4	E.			38.41			36.0	....
Jan. 5	E.			38.89			35.8	....
Mean	E.	15	8	38.733	+87	36	35.97	.....

β Libræ

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	11	43.93	−9	1	15.8	16.4
23	E.			43.96			15.6	16.0
June 26	E.			43.92			16.7	16.9
July 8	E.			43.92			16.7	16.8
Mean	E.	15	11	43.932	−9	1	16.20	16.52

1 H. Ursæ Minoris

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	15	13	30.75	+67	43	7.9	7.1
May 30	W.			30.70			7.4	7.1
June 1	W.			30.78			7.6	7.9
2	W.			30.75			7.1	7.4
4	W.			30.78			7.8	8.1
5	E.			30.74			7.2	7.5
6	E.			30.69			6.9	7.3
8	E.			30.79			7.3	7.4
9	E.			30.75			6.9	7.0
June 10	E.			30.75			6.9	6.7
Means	W.	15	13	30.752	+67	43	7.56	7.52
	E.			30.744			7.04	7.18

1 H. Ursæ Minoris S. P.

1901	Cl.	h	m	s	°	′	″	″
Dec. 5	W.	15	13	30.79	+67	43	6.0	7.7
6	W.			30.87			8.4	8.2
7	W.			30.74			8.9	7.8
8	W.			30.79			8.6	8.9
17	E.			30.71			8.3	9.1
18	E.			30.69			9.0	9.1
27	E.			30.51			8.8	9.0
Dec. 31	E.			30.71			7.6	9.0
Means	W.	15	13	30.798	+67	43	7.98	8.15
	E.			30.655			8.42	9.05

B. D. +41° 2592

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	15	16	28.50	+41	19	57.1	58.3
May 30	W.			28.46			57.5	59.2
June 1	W.			28.46			57.6	59.2
2	W.			28.52			58.0	58.9
4	W.			28.47			57.7	59.4
5	E.			28.50			62.2	60.4
6	E.			28.54			60.5	59.4
8	E.			28.53			61.9	59.5
9	E.			28.54			60.1	58.7
June 10	E.			28.51			60.9	59.5
Means	W.	15	16	28.482	+41	19	57.58	59.00
	E.			28.524			61.12	59.50

o² Libræ

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	17	33.69	−14	47	3.7	4.5
23	E.			33.77			3.1	4.2
June 26	E.			33.69			3.6	5.0
July 8	E.			33.71			3.1	4.4
July 9	E.			33.72			4.1	4.0
Mean	E.	15	17	33.716	−14	47	3.52	4.42

Circle A. B.

μ Bootis

1902	Cl.	n	m	s	°	′	″	″
May 29	W.	15	20	47.27	+37	43	14.0	14.5
May 30	W.			47.23			13.8	15.2
June 1	W.			47.22			14.0	15.5
2	W.			47.26			14.0	15.3
4	W.			47.29			14.6	15.1
5	E.			47.32			15.5	15.0
6	E.			47.30			14.3	15.1
8	E.			47.31			15.0	14.7
9	E.			47.32			14.3	14.7
10	E.			47.32			14.5	15.0
21	E.			47.44			14.6	14.4
23	E.			47.37			14.3	14.8
June 26	E.			47.37			14.8	14.8
July 8	E.			47.35			14.7	14.8
9	E.			47.33			14.7	14.9
July 10	E.			47.35			15.0	14.5
Means	W.	15	20	47.254	+37	43	14.08	15.12
	E.			47.344			14.70	14.79

32 Libræ

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	22	43.65	−16	22	27.8	28.6
23	E.			43.69			28.9	29.3
June 26	E.			43.69			29.5	29.5
July 10	E.			43.68			30.0	30.2
Mean	E.	15	22	43.678	−16	22	29.05	29.40

ι Draconis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	15	22	44.91	+59	18	31.8	32.1
May 30	W.			44.83			32.3	32.5
June 1	W.			44.88			32.3	32.8
2	W.			44.86			32.0	32.4
4	W.			44.90			32.6	33.2
5	E.			44.93			33.9	35.1
6	E.			44.88			33.1	34.6
8	E.			44.99			33.6	34.4
9	E.			44.87			32.2	34.6
June 10	E.			44.91			32.8	34.5
Means	W.	15	22	44.876	+59	18	32.20	32.60
	E.			44.916			33.12	34.64

β Coronæ Borealis

1902	Cl.	h	m	s	°	′	″	″
July 8	E.	15	23	47.30	+29	26	35.7	35.9
July 9	E.			47.30			36.0	36.1
Mean	E.	15	23	47.300	+29	26	35.85	36.00

Mayer 622

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	26	58.82	−19	20	12.7	12.1
23	E.			58.84			12.2	10.8
June 26	E.			58.85			13.2	12.6
July 9	E.			58.83			12.7	12.5
July 10	E.			58.80			12.3	12.3
Mean	E.	15	26	58.828	−19	20	12.62	12.06

ν^1 Bootis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	15	27	24.55	+41	9	59.4	60.3
May 30	W.			24.52			60.0	60.9
June 1	W.			24.46			59.4	60.6
2	W.			24.53			60.1	60.9
4	W.			24.51			60.2	61.0
5	E.			24.57			62.9	62.1
6	E.			24.57			62.3	61.2
8	E.			24.58			62.9	61.2
9	E.			24.58			61.8	60.7
June 10	E.			24.61			62.2	61.3
Means	W.	15	27	24.514	+41	9	59.82	60.74
	E.			24.582			62.42	61.30

Circle A. B.

γ Libræ

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	15	30	2.53	−14	27	46.7	45.4
May 30	W.			2.56			46.2	44.6
June 1	W.			2.54			46.3	45.1
2	W.			2.53			45.8	45.2
4	W.			2.56			46.4	44.7
5	E.			2.56			45.7	46.1
6	E.			2.52			46.5	46.9
8	E.			2.56			46.0	47.2
9	E.			2.51			46.5	47.2
10	E.			2.56			46.6	46.8
21	E.			2.55			46.1	46.6
23	E.			2.51			46.6	46.7
June 26	E.			2.56			46.0	46.4
July 10	E.			2.58			45.6	46.5
Means	W.	15	30	2.544	−14	27	46.28	45.00
	E.			2.546			46.18	46.71

α Coronæ Borealis

1902	Cl.	h	m	s	°	′	″	″
July 9	E.	15	30	32.29	+27	2	39.1	40.0

B. D. +38° 2678

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	15	32	11.78	+38	41	54.8	54.9
May 30	W.			11.72			54.9	54.8
June 1	W.			11.76			55.4	55.5
2	W.			11.72			54.8	54.3
4	W			11.76			55.5	55.4
5	E.			11.81			55.9	55.8
6	E.			11.74			55.9	56.4
8	E.			11.85			56.0	55.9
9	E.			11.85			55.9	56.0
June 10	E.			11.85			55.5	56.0
Means	W.	15	32	11.748	+38	41	55.08	54.98
	E.			11.820			55.84	56.02

42 Libræ

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	34	29.22	−23	29	57.5	58.9
23	E.			29.11			58.0	57.3
June 26	E.			29.13			58.5	58.6
July 10	E.			29.12			58.1	58.6
Mean	E.	15	34	29.145	−23	29	58.02	58.35

ζ Coronæ Borealis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	15	35	41.19	+36	57	12.6	12.7
May 30	W.			41.21			12.2	12.8
June 1	W.			41.19			13.3	13.1
2	W.			41.19			12.7	12.0
4	W.			41.25			13.3	13.9
5	E.			41.25			13.6	12.6
6	E.			41.19			13.4	12.8
8	E.			41.26			13.9	12.5
9	E.			41.27			13.2	12.3
June 10	E.			41.27			13.3	12.1
Means	W.	15	35	41.206	+36	57	12.82	12.90
	E.			41.248			13.48	12.46

κ Libræ

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	36	17.91	−19	21	39.3	40.4
23	E.			17.85			39.7	39.6
June 26	E.			17.92			39.4	41.7
July 10	E.			17.93			40.0	40.4
Mean	E.	15	36	17.902	−19	21	39.60	40.52

Circle A. B.

B. D. +39° 2901

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	15	37	50.76	+38	52	18.6	18.0
May 30	W.			50.80			18.3	18.1
June 1	W.			50.76			18.0	18.1
2	W.			50.78			19.1	18.9
4	W.			50.80			18.6	19.4
5	E.			50.77			19.2	20.1
6	E.			50.78			19.0	19.4
8	E.			50.79			19.8	19.2
June 10	E.			50.85			19.2	19.7
Means	W.	15	37	50.780	+38	52	18.52	18.50
	E.			50.798			19.30	19.60

η Libræ

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	38	33.58	−15	21	37.6	38.8
23	E.			33.48			38.1	38.0
June 26	E.			33.49			37.9	38.8
July 10	E.			33.50			37.8	39.5
Mean	E.	15	38	33.512	−15	21	37.85	38.78

β Serpentis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	15	41	39.86	+15	43	41.3	42.7
May 30	W.			39.82			41.5	42.7
June 1	W.			39.89			41.6	43.3
2	W.			39.84			42.2	42.6
4	W.			39.85			41.9	43.5
5	E.			39.85			43.9	42.6
6	E.			39.85			42.9	42.5
8	E.			39.84			43.4	42.2
9	E.			39.83			42.7	42.4
10	E.			39.82			43.7	42.3
21	E.			39.85			43.7	42.3
23	E.			39.80			43.2	42.6
June 26	E.			39.82			43.5	42.5
July 10	E.			39.84			43.3	42.3
Means	W.	15	41	39.852	+15	43	41.70	42.96
	E.			39.833			43.37	42.41

κ Serpentis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	15	44	19.66	+18	26	38.1	37.3
May 30	W.			19.72			38.8	37.9
June 1	W.			19.72			38.5	38.0
2	W.			19.67			38.6	37.6
4	W.			19.67			39.2	37.8
5	E.			19.67			40.0	38.7
6	E.			19.64			39.0	37.9
8	E.			19.67			40.2	38.3
9	E.			19.66			39.3	38.1
June 10	E.			19.69			40.1	38.2
Means	W.	15	44	19.688	+18	26	38.64	37.72
	E.			19.666			39.72	38.24

μ Serpentis

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	44	30.29	−3	7	47.9	48.9
23	E.			30.25			49.5	49.0
June 26	E.			30.26			48.8	49.9
July 8	E.			30.28			49.1	49.9
July 10	E.			30.29			49.2	49.5
Mean	E.	15	44	30.274	−3	7	48.90	49.44

Circle A. B.

ζ Ursæ Minoris

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	15	47	33.07	+78	5	45.5	45.6
May 30	W.			32.95			45.2	45.5
June 1	W.			32.94			45.7	45.6
2	W.			32.98			45.7	45.4
4	W.			33.01			46.0	45.7
5	E.			33.07			45.3	45.5
6	E.			32.91			45.0	46.4
8	E.			33.07			44.8	45.3
9	E.			33.06			44.2	44.6
June 10	E.			32.98			44.7	45.5
Means	W.	15	47	32.990	+78	5	45.62	45.56
	E.			33.018			44.80	45.46

ζ Ursæ Minoris S. P.

1901	Cl.	h	m	s	°	′	″	″
Dec. 4	W.	15	47	32.99	+78	5	47.4	44.7
5	W.			33.02			45.5	44.9
6	W.			33.18			46.5	44.8
7	W.			32.80			46.4	45.3
8	W.			32.88			45.1	45.1
17	E.			32.93			45.5	46.1
27	E.			32.47			46.0	46.6
Dec. 31	E.			32.93			44.7	46.6
Means	W.	15	47	32.974	+78	5	46.18	44.96
	E.			32.777			45.40	46.43

λ Libræ

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	47	38.54	−19	52	25.5	25.5
23	E.			38.56			25.7	25.8
June 26	E.			38.59			27.1	26.9
July 8	E.			38.59			26.3	26.5
July 10	E.			38.58			26.1	25.8
Mean	E.	15	47	38.572	−19	52	26.14	26.10

ρ Scorpii

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	50	49.88	−28	55	39.3	40.6
23	E.			49.89			39.3	40.4
June 26	E.			49.85			39.9	41.0
July 8	E.			49.87			40.2	40.6
July 10	E.			49.87			38.7	40.6
Mean	E.	15	50	49.872	−28	55	39.48	40.64

B. D. +38° 2712

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	15	52	13.62	+38	13	47.5	47.7
May 30	W.			13.63			47.0	47.9
June 1	W.			13.61			47.8	48.5
2	W.			13.61			47.6	47.5
4	W.			13.66			47.9	48.1
5	E.			13.70			47.7	47.7
6	E.			13.68			47.8	48.2
8	E.			13.72			47.5	47.6
9	E.			13.70			47.7	47.8
June 10	E.			13.72			47.0	46.8
Means	W.	15	52	13.626	+38	13	47.56	47.94
	E.			13.704			47.54	47.62

π Scorpii

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	52	55.28	−25	49	53.0	54.7
23	E.			55.24			54.2	54.6
June 26	E.			55.29			54.2	55.3
July 8	E.			55.22			54.6	56.0
July 10	E.			55.30			53.4	55.1
Mean	E.	15	52	55.266	−25	49	53.88	55.14

Circle A. B.

δ Scorpii

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	15	54	32.24	−22	20	34.8	35.4
May 30	W.			32.23			34.8	35.8
June 1	W.			32.23			34.9	35.3
2	W.			32.23			33.9	35.9
4	W.			32.28			34.8	34.7
5	E.			32.23			33.1	33.4
6	E.			32.23			34.3	33.7
8	E.			32.22			34.1	33.7
9	E.			32.25			34.5	34.9
10	E.			32.24			34.1	34.5
21	E.			32.25			33.7	33.6
23	E.			32.24			33.5	34.2
June 26	E.			32.23			34.0	34.5
July 8	E.			32.15			33.9	34.7
July 10	E.			32.27			34.0	34.8
Means	W.	15	54	32.242	−22	20	34.64	35.42
	E.			32.231			33.92	34.20

r Herculis

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	56	50.07	+18	5	21.6	20.4
June 23	E.			50.08			21.4	20.3
July 8	E.			50.08			21.2	21.3
July 10	E.			50.06			21.0	20.0
Mean	E.	15	56	50.072	+18	5	21.30	20.50

β¹ Scorpii

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	15	59	44.17	−19	32	13.3	13.7
June 23	E.			44.19			13.2	13.3
July 8	E.			44.17			13.3	13.7
July 10	E.			44.26			12.9	13.8
Mean	E.	15	59	44.198	−19	32	13.18	13.62

θ Draconis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	16	0	3.11	+58	49	35.3	36.1
May 30	W.			3.10			35.0	36.5
June 1	W.			3.08			35.3	37.0
2	W.			3.09			35.0	35.7
4	W.			3.10			36.3	36.6
5	E.			3.06			37.5	37.7
6	E.			3.05			37.5	37.6
8	E.			3.09			37.1	37.6
9	E.			3.11			37.1	37.6
June 10	E.			3.16			37.2	38.3
Means	W.	16	0	3.096	+58	49	35.38	36.38
	E.			3.094			37.28	37.76

ω² Scorpii

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	16	1	39.37	−20	36	14.2	13.5
June 23	E.			39.34			14.5	14.4
July 8	E.			39.31			15.6	14.9
July 10	E.			39.36			15.0	16.0
Mean	E.	16	1	39.345	−20	36	14.82	14.70

σ² Coronæ Borealis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	16	11	0.49	+34	6	23.5	24.6
May 30	W.			0.46			24.3	24.6
June 1	W.			0.53			23.6	24.6
2	W.			0.52			23.6	23.8
4	W.			0.55			24.6	25.4
5	E.			0.59			24.1	24.2
6	E.			0.54			23.7	23.4
8	E.			0.59			24.2	24.1
9	E.			0.57			24.4	23.6
10	E.			0.51			24.1	24.7
21	E.			0.54			25.1	23.8
23	E.			0.59			24.0	24.4
June 26	E.			0.51			24.4	23.6
July 8	E.			0.57			24.3	24.0
July 10	E.			0.57			24.5	23.6
Means	W.	16	11	0.510	−34	6	23.92	24.60
	E.			0.558			24.28	23.94

Circle A. B.

ε Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	16	13	8.13	−4	27	13.6	12.6
May 30	W.			8.14			14.6	12.6
June 1	W.			8.11			13.9	12.0
2	W.			8.10			13.5	12.3
4	W.			8.12			13.0	11.3
5	E.			8.11			12.9	13.8
6	E.			8.09			13.9	13.6
8	E.			8.12			13.3	13.5
9	E.			8.10			13.4	13.9
10	E.			8.13			12.7	13.1
21	E.			8.07			12.3	13.9
23	E.			8.14			12.9	14.4
June 26	E.			8.09			12.9	13.1
July 8	E.			8.06			13.1	13.7
July 10	E.			8.11			13.1	14.2
Means	W.	16	13	8.120	−4	27	13.72	12.16
	E.			8.102			13.05	13.72

19 Ursæ Minoris S. P.

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	16	13	36.49	+76	7	28.1	29.2
13	E.			36.72			27.4	28.6
14	E.			36.72			27.5	28.5
16	E.			36.66			27.7	28.4
17	W.			36.69			29.9	28.9
Jan. 28	W.			36.74			30.2	29.0
Feb. 2	W.			36.85			30.2	28.6
3	W.			36.78			30.1	27.9
Feb. 4	W.			36.70			30.8	29.7
Means	W.	16	13	36.752	+76	7	30.24	28.82
	E.			36.648			27.68	28.68

σ Scorpii

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	16	15	13.83	−25	21	25.5	27.5
June 23	E.			13.81			26.0	27.2
July 8	E.			13.74			26.0	28.3
July 10	E.			13.77			26.3	28.4
Mean	E.	16	15	13.788	−25	21	25.95	27.85

γ Herculis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	16	17	35.83	+19	22	58.3	58.5
May 30	W.			35.80			59.0	59.0
June 1	W.			35.80			58.9	58.9
2	W.			35.80			59.0	59.2
4	W.			35.78			60.2	59.9
5	E.			35.80			59.5	59.3
6	E.			35.79			59.5	59.4
8	E.			35.78			60.3	60.1
9	E.			35.79			59.3	59.2
June 10	E.			35.80			59.4	60.3
Means	W.	16	17	35.802	+19	22	59.08	59.10
	E.			35.792			59.60	59.66

ψ Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	16	18	21.97	−19	48	28.9	27.6
June 23	E.			22.00			28.8	27.0
July 8	E.			22.00			30.1	28.8
July 10	E.			21.95			29.2	28.6
Mean	E.	16	18	21.980	−19	48	29.25	28.00

η Ursæ Minoris

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	16	20	21.76	+75	58	51.3	51.4
May 30	W.			21.75			51.8	51.9
June 1	W.			21.91			51.5	51.6
2	W.			21.90			51.5	51.3
4	W.			21.85			52.4	51.8
5	E.			21.86			52.0	51.3
6	E.			21.79			52.1	51.5
8	E.			21.95			51.8	51.7
9	E.			21.83			52.1	51.1
June 10	E.			21.86			52.1	51.1
Means	W.	16	20	21.834	+75	58	51.70	51.60
	E.			21.858			52.02	51.34

η Ursæ Minoris S. P.

1901	Cl.	h	m	s	°	′	Circle A. ″	B. ″
Dec. 4	W.	16	20	21.65	+75	58	54.2	54.5
5	W.			21.95			53.6	52.8
6	W.			21.98			54.5	53.7
7	W.			21.83			53.4	54.3
8	W.			.....			53.2	52.8
17	E.			21.85			50.1	52.2
27	E.			21.77			51.5	53.9
Dec. 31	E.			21.87			52.0	53.4
1902								
Jan. 11	E.			21.74			52.1	51.9
Means	W.	16	20	21.852	+75	58	53.78	53.62
	E.			21.808			51.42	52.85

χ Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	16	21	20.53	−18	14	1.2	3.0
June 23	E.			20.53			2.1	3.3
July 8	E.			20.52			2.4	2.9
July 10	E.			20.53			2.2	3.6
Mean	E.	16	21	20.528	−18	14	1.98	3.20

α Scorpii

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	16	23	23.86	−26	12	53.6	54.1
May 30	W.			23.88			54.1	52.7
June 1	W.			23.88			53.9	53.8
2	W.			23.89			53.6	53.4
4	W.			23.95			53.7	53.3
5	E.			23.87			50.5	51.7
6	E.			23.89			51.6	53.1
8	E.			23.84			50.4	52.9
9	E.			23.90			51.9	53.2
10	E.			23.92			51.1	52.0
21	E.			23.81			49.0	52.2
June 23	E.			23.83			50.8	52.3
July 8	E.			23.84			49.8	52.7
July 10	E.			23.87			51.3	53.2
Means	W.	16	23	23.892	−26	12	53.78	53.46
	E.			23.863			50.71	52.59

φ Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	16	25	31.67	−16	23	56.2	58.0
June 23	E.			31.71			58.1	....
July 8	E.			31.64			56.6	58.4
July 10	E.			31.66			56.7	57.8
Mean	E.	16	25	31.670	−16	23	56.90	58.07

β Herculis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	16	26	0.37	+21	42	9.2	10.4
May 30	W.			0.41			10.6	11.4
June 1	W.			0.41			10.3	11.9
2	W.			0.41			10.7	11.3
4	W.			0.41			11.1	11.9
5	E.			0.36			11.2	11.0
6	E.			0.38			11.6	10.3
8	E.			0.38			11.4	10.8
9	E.			0.40			10.8	10.8
June 10	E.			0.39			11.9	10.9
Means	W.	16	26	0.402	+21	42	10.38	11.38
	E.			0.382			11.38	10.76

34 Herculis

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	16	27	24.58	+49	10	29.2	29.0
June 23	E.			24.45			27.7	28.3
July 8	E.			24.47			27.9	28.3
July 10	E.			24.46			28.1	27.7
Mean	E.	16	27	24.490	+49	10	28.22	28.32

A Draconis S. P.

1902	Cl.	h	m	s	°	′	Circle A. ″	B. ″
Jan. 11	E.	16	28	10.37	+68	58	48.8	50.0
12	E.			10.29			49.4	51.3
13	E.			10.52			50.3	49.0
14	E.			10.37			48.6	50.4
16	E.			10.29			50.8	50.5
17	W.			10.28			49.8	49.1
Jan. 28	W.			10.51			49.0	49.7
Feb. 2	W.			10.41			49.1	50.1
3	W.			10.41			50.2	49.4
Feb. 4	W.			10.25			51.3	51.7
Means	W.	16	28	10.372	+68	58	49.88	50.00
	E.			10.368			49.58	50.24

τ Scorpii

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	16	29	46.79	−28	0	43.5	44.1
June 23	E.			46.79			43.4	44.8
July 8	E.			46.76			44.6	45.1
July 10	E.			46.78			44.8	45.2
Mean	E.	16	29	46.780	−28	0	44.08	44.80

σ Herculis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	16	30	56.61	+42	38	18.8	19.9
May 30	W.			56.56			19.1	19.7
June 1	W.			56.56			19.5	20.1
2	W.			56.58			19.3	19.3
4	W.			56.56			18.8	19.9
5	E.			56.61			21.0	19.9
6	E.			56.60			20.3	19.7
8	E.			56.61			21.0	19.7
9	E.			56.59			20.7	20.1
June 10	E.			56.60			21.1	20.0
Means	W.	16	30	56.574	+42	38	19.10	19.78
	E.			56.602			20.82	19.88

ζ Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
June 21	E.	16	31	45.69	−10	22	6.1	6.7
June 23	E.			45.73			7.4	7.1
July 8	E.			45.66			7.2	7.1
July 10	E.			45.66			6.9	7.7
Mean	E.	16	31	45.685	−10	22	6.90	7.15

Bradley 2115

1902	Cl.	h	m	s	°	′	″	″
June 23	E.	16	36	7.92	−19	44	12.4	11.4
July 8	E.			7.91			11.9	12.0
July 10	E.			7.93			12.3	13.6
Mean	E.	16	36	7.920	−19	44	12.20	12.33

15 Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
June 23	E.	16	39	14.92	−23	0	5.4	5.2
July 8	E.			14.92			4.8	5.5
July 10	E.			14.92			6.1	6.3
Mean	E.	16	39	14.920	−23	0	5.43	5.67

η Herculis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	16	39	32.11	+39	6	30.1	29.7
May 30	W.			32.17			30.4	29.9
June 1	W.			32.12			30.0	29.7
2	W.			32.09			29.9	29.6
4	W.			32.16			30.3	30.2
5	E.			32.16			29.7	30.1
6	E.			32.17			30.4	29.8
8	E.			32.16			30.2	29.8
9	E.			32.22			29.2	28.9
June 10	E.			32.13			30.3	29.8
Means	W.	16	39	32.130	+39	6	30.14	29.82
	E.			32.168			29.96	29.68

114 B. Draconis

1902	Cl.	h	m	s	°	′	Circle A. ″	B. ″
May 29	W.	16	43	26.14	+56	57	23.5	24.5
May 30	W.			26.20			24.5	24.8
June 1	W.			26.19			24.7	24.8
2	W.			26.24			24.5	24.3
4	W.			26.23			24.4	24.5
5	E.			26.22			25.5	23.9
6	E.			26.22			25.1	24.5
8	E.			26.20			25.0	24.4
9	E.			26.22			24.3	23.7
June 10	E.			26.22			25.2	23.8
Means	W.	16	43	26.200	+56	57	24.32	24.58
	E.			26.216			25.02	24.06

18 Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
June 23	E.	16	43	46.44	−24	28	7.8	6.5
July 8	E.			46.33			7.3	7.6
July 10	E.			46.38			7.3	7.3
Mean	E.	16	43	46.383	−24	28	7.47	7.13

49 Herculis

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	16	47	37.08	+15	8	....	18.5
Mar. 20	E.			37.10			....	18.8
May 30	W.			37.18			16.7	17.9
June 1	W.			37.11			17.2	18.4
2	W.			37.12			17.6	17.9
4	W.			37.15			17.5	18.4
5	E.			37.09			20.9	18.8
6	E.			37.16			20.9	19.1
8	E.			37.05			21.3	19.3
9	E.			37.14			20.1	19.4
10	E.			37.08			20.7	19.0
June 23	E.			37.06			22.0	19.4
July 10	E.			37.07			20.6	18.2
Means	W.	16	47	37.140	+15	8	17.25	18.15
	E.			37.092			20.93	18.94

24 Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
June 23	E.	16	50	53.26	−22	59	40.2	41.3
July 8	E.			53.27			40.1	41.0
July 10	E.			53.28			41.7	41.9
Mean	E.	16	50	53.270	−22	59	40.67	41.40

κ Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	16	53	1.75	+9	31	38.2	38.5
May 30	W.			1.74			38.6	37.7
June 1	W.			1.71			38.7	38.2
2	W.			1.71			38.7	37.9
4	W.			1.71			39.1	38.2
5	E.			1.70			37.5	38.9
6	E.			1.68			38.3	39.5
8	E.			1.72			38.1	39.4
9	E.			1.68			37.5	39.1
10	E.			1.72			37.7	39.2
21	E.			1.74			37.8	38.9
June 23	E.			1.68			37.4	38.8
July 8	E.			1.70			38.5	39.0
July 10	E.			1.70			38.1	40.2
Means	W.	16	53	1.724	+9	31	38.66	38.10
	E.			1.702			37.88	39.22

Circle A. B.

ε Ursæ Minoris

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	16	55	59.56	+82	11	....	56.4
20	E.			59.54			....	56.8
Mar. 22	E.			59.63			....	56.6
May 29	W.			59.36			54.5	56.6
May 30	W.			59.41			55.3	56.3
June 1	W.			59.36			55.1	56.9
2	W.			59.43			54.2	56.2
4	W.			59.92			55.3	56.8
5	E.			59.78			57.4	56.4
6	E.			59.64			56.8	56.5
8	E.			59.67			56.5	57.3
9	E.			59.58			56.5	55.4
10	E.			59.76			58.1	56.5
21	E.			59.66			56.5	55.7
June 23	E.			59.66			56.6	56.2
July 8	E.			59.65			57.3	55.9
July 10	E.			59.38			57.0	56.3
Means	W.	16	55	59.496	+82	11	54.88	56.56
	E.			59.626			56.97	56.33

ε Ursæ Minoris S. P.

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	16	55	59.81	+82	11	59.0	57.0
12	E.			59.63			57.7	56.3
13	E.			59.50			58.4	57.0
14	E.			59.53			57.5	56.9
16	E.			59.39			57.8	57.3
17	W.			59.43			56.3	57.6
Jan. 28	W.			59.44			56.4	57.5
Feb. 2	W.			59.53			56.8	56.7
3	W.			59.55			55.8	57.5
Feb. 4	W.			59.67			56.5	57.9
Mar. 9	E.			59.46			....	58.6
10	E.			59.60			....	56.8
Mar. 11	E.			59.53			....	57.1
Means	W.	16	55	59.524	+82	11	56.36	57.44
	E.			59.556			58.08	57.12

d Herculis

1902	Cl.	h	m	s	°	′	″	″
May 29	W.	16	57	59.21	+33	42	35.3	37.3
May 30	W.			59.21			34.4	36.8
June 1	W.			59.19			34.5	37.0
2	W.			59.23			35.2	36.9
4	W.			59.24			34.7	37.2
5	E.			59.27			36.3	36.7
6	E.			59.27			36.6	36.5
8	E.			59.26			36.5	37.3
9	E.			59.29			35.9	36.2
June 10	E.			59.26			36.4	36.1
Means	W.	16	57	59.216	+33	42	34.82	37.04
	E.			59.270			36.34	36.56

31 Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
June 23	E.	16	58	41.70	−25	30	20.1	21.1
July 8	E.			41.66			19.3	19.6
July 10	E.			41.69			19.5	20.8
Mean	E.	16	58	41.683	−25	30	19.63	20.50

η Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
June 23	E.	17	4	45.40	−15	36	14.0	14.5
July 8	E.			45.40			13.7	....
July 10	E.			45.38			14.3	15.1
Mean	E.	17	4	45.393	−15	36	14.00	14.80

A Ophiuchi (north star)

1902	Cl.	h	m	s	°	′	″	″
July 8	E.	17	9	19.17	−26	27	28.6	29.5

Circle A. B.

A Ophiuchi (south star)

1902	Cl.	h	m	s	°	′	″	″
June 23	E.	17	9	19.20	−26	27	32.8	34.0
July 10	E.			19.17			32.3	34.1
Mean	E.	17	9	19.185	−26	27	32.55	34.05

α Herculis

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	17	10	10.74	+14	30	....	6.5
20	E.			10.70			.....	6.5
Mar. 22	E.			10.70			....	6.4
Mean	E.	17	10	10.713	+14	30	.....	6.47

π Herculis

1902	Cl.	h	m	s	°	′	″	″
June 23	E.	17	11	38.00	+36	55	10.3	10.0
July 8	E.			38.00			9.6	10.1
July 10	E.			38.07			9.7	9.4
Mean	E.	17	11	38.023	+36	55	9.87	9.83

θ Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	17	15	59.43	−24	54	....	8.2
20	E.			59.41			....	8.0
Mar. 22	E.			59.44			....	7.4
June 23	E.			59.41			7.1	9.2
July 8	E.			59.31			6.6	8.1
July 10	E.			59.34			6.6	8.4
Mean	E.	17	15	59.390	−24	54	6.77	8.22

b Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	17	20	23.09	−24	5	....	8.7
20	E.			23.09			....	8.5
Mar. 22	E.			23.09			....	8.3
June 23	E.			23.06			7.2	8.0
July 8	E.			23.12			7.7	8.9
July 10	E.			23.02			6.0	8.7
Mean	E.	17	20	23.078	−24	5	6.97	8.52

51 Ophiuchi

1902	Cl.	h	m	s	°	′	″	″
June 23	E.	17	25	26.08	−23	53	12.6	12.8
July 10	E.			26.09			12.8	14.3
Mean	E.	17	25	26.085	−23	53	12.70	13.55

ξ Serpentis

1902	Cl.	h	m	s	°	′	″	″
June 23	E.	17	31	58.45	−15	20	12.5	13.5
July 8	E.			58.45			13.4	13.4
July 10	E.			58.38			13.4	14.7
Mean	E.	17	31	58.427	−15	20	13.10	13.87

ι Herculis

1902	Cl.	h	m	s	°	′	″	″
Mar. 22	E.	17	36	41.91	+46	3	....	29.9

ω Draconis

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	17	37	31.38	+68	48	....	10.8
Mar. 20	E.			31.39			....	10.4
Mean	E.	17	37	31.385	+68	48	.....	10.60

ω Draconis S. P.

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	17	37	31.39	+68	48	....	10.6
10	E.			31.30			....	12.8
Mar. 11	E.			31.31			....	11.6
Mean	E.	17	37	31.333	+68	48	.....	11.67

Circle A. B.

ψ¹ Draconis

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	17	43	40.79	+72	11	....	48.9
20	E.			40.78			....	49.1
Mar. 22	E.			40.86			....	49.6
Mean	E.	17	43	40.810	+72	11	.....	49.20

ψ¹ Draconis S. P.

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	17	43	40.68	+72	11	....	50.9
10	E.			40.77			....	50.3
Mar. 11	E.			40.76			....	49.4
Mean	E.	17	43	40.737	+72	11	.....	50.20

θ Herculis

1902	Cl.	h	m	s	°	′	″	″
Mar. 23	E.	17	52	53.53	+37	15	....	46.8
Mar. 25	E.			53.53			....	47.2
Mean	E.	17	52	53.530	+37	15	.....	47.00

35 Draconis

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	17	53	50.14	+76	58	....	32.4
20	E.			50.04			....	31.9
Mar. 22	E.			50.24			....	32.2
Mean	E.	17	53	50.140	+76	58	.....	32.17

35 Draconis S. P.

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	17	53	50.01	+76	58	....	34.8
10	E.			50.16			....	33.4
Mar. 11	E.			49.99			....	33.9
Mean	E.	17	53	50.053	+76	58	.....	34.03

δ Ursæ Minoris

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	18	3	53.41	+86	36	....	47.1
20	E.			53.63			....	47.6
22	E.			53.49			....	47.3
23	E.			52.63			....	48.2
Mar. 25	E.			52.72			....	47.3
Mean	E.	18	3	53.176	+86	36	.....	47.50

δ Ursæ Minoris S. P.

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	18	3	53.82	+86	36	47.9	48.7
12	E.			53.37			49.1	48.4
13	E.			53.54			48.6	48.7
14	E.			53.89			48.1	48.1
Jan. 17	W.			53.61			49.6	47.7
Feb. 2	W.			53.68			48.8	49.5
3	W.			54.18			49.2	47.9
Feb. 4	W.			54.10			47.5	48.5
Mar. 9	E.			52.83			....	48.6
10	E.			53.54			....	48.9
11	E.			52.54			....	48.8
23	E.			53.80			....	48.7
Mar. 25	E.			53.90			....	49.1
Means	W.	18	3	53.892	+86	36	48.78	48.40
	E.			53.470			48.42	48.67

η Serpentis

1902	Cl.	h	m	s	°	′	″	″
Mar. 9	E.	18	16	14.34	−2	55	....	28.8
20	E.			14.36			....	28.8
22	E.			14.36			....	29.3
23	E.			14.31			....	28.5
Mar. 25	E.			14.34			....	28.8
Mean	E.	18	16	14.342	2	55	.....	28.84

Circle A. B.

χ Draconis

1902	Cl.	h	m	s	°	′	″	″
Mar. 23	E.	18	22	49.42	+72	41	....	26.2
Mar. 25	E.			49.43			....	25.7
Mean	E.	18	22	49.425	+72	41	.....	25.95

χ Draconis S. P.

1902	Cl.	h	m	s	°	′	″	″
Mar. 23	E.	18	22	49.26	+72	41	....	26.9
Mar. 25	E.			49.57			....	27.0
Mean	E.	18	22	49.415	+72	41	.....	26.95

156 H^{I}. Draconis S. P.

1902	Cl.	h	m	s	°	′	″	″
Mar. 23	E.	18	34	29.01	+77	28	....	15.6
Mar. 25	E.			29.17			....	16.1
Mean	E.	18	34	29.090	+77	28	.....	15.85

50 Draconis S. P.

1902	Cl.	h	m	s	°	′	″	″
Mar. 23	E.	18	49	32.26	+75	19	....	7.2

ζ Aquilæ

1902	Cl.	h	m	s	°	′	″	″
Mar. 23	E.	19	0	54.33	+13	43	....	3.2
Mar. 25	E.			54.31			....	3.0
Mean	E.	19	0	54.320	+13	43	.....	3.10

δ Draconis S. P.

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	19	12	32.24	+67	29	20.5	21.3
12	E.			31.99			23.0	25.1
13	E.			32.06			23.0	23.3
14	E.			32.06			20.4	21.0
Jan. 17	W.			32.09			22.3	21.3
Feb. 2	W.			32.19			21.7	22.4
3	W.			32.15			22.9	22.4
Feb. 4	W.			32.27			22.7	23.1
Means	W.	19	12	32.175	+67	29	22.40	22.30
	E.			32.088			21.72	22.68

Circle A. B.

λ Ursæ Minoris

1902	Cl.	h	m	s	°	′	″	″
Aug. 11	E.	19	20	11.96	+88	59	29.3	29.6
12	E.			15.52			29.6	29.0
19	E.			.....			30.5	29.5
20	E.			.....			29.8	30.0
21	E.			.....			31.3	....
22	E.			.....			31.0	30.0
23	E.			.....			30.0	29.6
24	E.			.....			30.2	28.9
25	E.			.....			30.1	29.5
28	W.			12.86			29.9	29.9
29	W.			13.62			31.0	29.8
30	W.			11.65			30.1	28.7
Aug. 31	W.			13.34			29.7	29.5
Sept. 4	W.			13.27			31.4	29.6
Sept. 5	W.			13.01			31.0	29.5
Means	W.	19	20	12.958	+88	59	30.52	29.50
	E.			13.740			30.20	29.51

λ Ursæ Minoris S. P.

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	19	20	.....	+88	59	28.6	29.8
12	E.			.....			29.7	30.8
13	E.			.....			28.4	30.9
14	E.			.....			27.8	31.0
16	E.			.....			28.5	30.5
Jan. 17	W.			.....			30.5	31.0
Feb. 2	W.			.....			30.0	30.7
3	W.			.....			30.2	29.4
4	W.			.....			29.4	29.9
8	W.			10.95			30.1	30.1
9	W.			13.10			30.2	30.1
13	W.			12.44			30.7	30.6
14	W.			12.53			29.8	30.2
23	E.			14.27			29.5	29.7
Feb. 26	E.			14.57			29.4	30.3
Mar. 3	E.			14.54			28.9	29.2
Mar. 6	E.			14.07			28.7	30.2
Means	W.	19	20	12.255	+88	59	30.11	30.25
	E.			14.362			28.83	30.27

Circle A. B.

κ Cephei S. P.

1902	Cl.	h	m	s	°	′	″	″
Jan. 11	E.	20	12	12.14	+77	24	59.2	57.0
12	E.			12.01			60.0	59.6
13	E.			12.16			59.0	58.7
14	E.			11.84			58.3	58.8
16	E.			12.04			59.0	60.8
Jan. 17	W.			12.02			58.9	56.0
Feb. 2	W.			12.14			60.6	59.0
3	W.			12.07			60.5	58.9
Feb. 4	W.			12.31			60.2	59.0
Means	W.	20	12	12.135	+77	24	60.05	58.22
	E.			12.038			59.10	58.98

φ Pegasi

1902	Cl.	h	m	s	°	′	″	″
Jan. 8	E.	23	47	30.10	+18	34	33.3	....
Jan. 11	E.			30.09			33.5	....
Mean	E.	23	47	30.095	+18	34	33.40	.....

CATALOGUE

OF

STARS IN LIST I.

NAME.	CLAMP.	RIGHT ASCENSION 1902.0	NO. OBS.	DECLINATION 1902.0		NO. OBS.	
				A.	B.	A.	B.
		h m s		° ′ ″	″		
ζ Tauri........	W.	5 31 47.247	6	+21 4 59.02	59.18	6	6
	E.	47.250	6	58.33	58.57	6	6
130 Tauri......	W.	5 41 43.333	6	+17 41 33.00	32.60	6	6
	E.	43.350	6	33.58	33.83	6	6
Lalande 11293..	W.	5 53 46.587	3	+21 35 49.37	48.97	3	3
	E.	46.603	3	47.80	47.60	3	3
140 Tauri......	W.	5 54 31.777	3	+22 53 39.00	39.53	3	3
	E.	31.803	3	38.37	38.57	3	3
1 Geminorum..	W.	5 58 9.813	6	+23 16 7.73	7.63	6	6
	E.	9.803	6	6.88	6.67	6	6
Lalande 11538..	W.	6 0 49.428	5	+21 53 47.66	47.74	5	5
	E.	49.393	3	45.73	46.50	3	3
3 Geminorum..	W.	6 3 46.960	3	+23 7 46.23	46.47	3	3
	E.	46.953	3	46.10	45.77	3	3
Lalande 11717..	W.	6 5 32.030	3	+20 55 33.43	33.30	3	3
	E.	32.033	3	31.43	31.77	3	3
6 Geminorum..	W.	6 6 22.650	3	+22 55 51.53	51.20	3	3
	E.	22.643	3	50.27	50.33	3	3
η Geminorum..	W.	6 8 57.763	6	+22 32 7.85	7.35	6	6
	E.	57.748	6	7.55	7.48	6	6
B. D. +20° 1348.	W.	6 11 38.183	3	+20 50 32.23	32.93	3	3
	E.	38.163	3	32.93	33.[illegible]7	3	3
10 Geminorum.	W.	6 12 56.143	3	+23 38 27.90	28.23	3	3
	E.	56.180	3	28.33	29.00	3	3
Mayer 264.....	W.	6 15 22.900	3	+21 10 33.47	34.37	3	3
	E.	22.873	3	34.03	34.17	3	3
Mayer 266.....	W.	6 15 50.477	3	+23 48 21.73	22.67	3	3
	E.	50.523	3	22.00	22.93	3	3
μ Geminorum..	W.	6 17 1.947	6	+22 33 51.07	51.32	6	6
	E.	1.943	6	50.42	50.52	6	6
14 Geminorum.	W.	6 19 49.867	3	+21 41 58.63	58.40	3	3
	E.	49.860	3	58.03	59.03	3	3
B. D. +22° 1326.	W.	6 20 21.193	3	+22 46 30.43	29.77	3	3
	E.	21.177	3	28.97	28.70	3	3
W. B.$_2$ VI. 535..	W.	6 22 0.463	3	+23 43 42.20	43.33	3	3
	E.	0.450	3	41.33	42.70	3	3
16 Geminorum.	W.	6 22 6.993	3	+20 33 20.30	20.43	3	3
	E.	7.020	3	19.10	19.97	3	3
Lalande 12462..	W.	6 26 5.263	3	+22 15 19.00	18.53	3	3
	E.	5.260	3	16.93	16.93	3	3
B. D. +24° 1303.	W.	6 27 19.293	3	+24 6 48.77	48.77	3	3
	E.	19.310	3	48.97	48.40	3	3
W. B.$_2$ VI. 788..	W.	6 29 45.963	3	+20 58 4.27	4.20	3	3
	E.	45.967	3	2.90	3.43	3	3
B. D. +23° 1425.	W.	6 30 45.910	3	+23 10 40.20	41.37	3	3
	E.	45.913	3	41.63	41.33	3	3
Lalande 12712..	W.	6 33 11.605	2	+22 7 2.30	2.00	2	2
	E.	11.585	2	1.80	0.95	2	2
W. B.$_2$ VI. 935..	W.	6 34 7.390	2	+23 45 43.60	44.10	[illegible]	2
	E.	7.370	2	43.20	43.80	2	2
B. D. +20° 1521.	W.	6 34 9.715	[illegible]	+20 34 30.90	30.45	2	2
	E.	9.715	2	29.45	29.80	2	[illegible]
Lalande 12914..	W.	6 38 40.217	3	+20 47 30.43	30.30	3	3
	E.	40.210	3	29.53	29.33	3	3
Lalande 12925..	W.	6 39 0.987	3	+22 56 12.70	12.40	3	3
	E.	0.980	[illegible]	11.75	11.25	2	2
B. D. +21° 1372.	W.	6 40 24.157	3	+21 38 5.47	5.80	3	3
	E.	24.123	3	5.63	5.53	3	3
ζ Geminorum..	W.	6 58 17.842	6	+20 42 51.78	52.30	6	6
	E.	17.847	6	50.80	51.90	6	6
51 Geminorum.	W.	7 7 44.678	6	+16 19 30.92	31.05	6	6
	E.	44.682	5	32.78	32.32	5	5
δ Geminorum	W.	7 14 16.267	6	+22 9 46.40	46.35	6	6
	E.	16.258	5	47.68	46.54	5	5
ψ Leonis	W.	9 38 23.751	7	+14 28 11.21	11.69	7	7
	E.	23.760	7	12.71	13.04	7	7
ν Leonis.......	W.	9 52 57.154	7	+12 54 44.79	44.99	7	7
	E.	57.128	6	44.33	44.08	6	6
α Leonis.......	W.	10 3 9.170	7	+12 26 46.91	46.74	7	7
	E.	9.191	7	46.37	45.70	7	7
37 Leonis......	W.	10 11 25.182	4	+14 13 0.88	1.90	4	4
	E.	25.160	4	1.52	1.85	4	4
Mayer 454.....	W.	10 13 8.800	3	+13 6 43.60	44.63	3	3
	E.	8.823	3	44.47	44.20	3	3
42 Leonis......	W.	10 16 34.205	4	+15 28 10.00	10.97	4	3
	E.	34.183	3	11.87	11.37	3	3
Lalande 20109..	W.	10 17 16.743	3	+17 14 10.17	10.07	3	3
	E.	16.755	2	10.20	10.90	2	2
Lalande 20139..	W.	10 18 10.575	4	+14 24 2.78	4.15	4	4
	E.	10.535	2	3.45	3.55	[illegible]	[illegible]
Lalande 20181 .	W.	10 19 45.347	3	+13 13 37.43	38.33	3	3
	E.	45.360	3	37.83	37.33	3	3
B. D. +14° 2244	W.	10 21 31.190	4	+14 7 31.08	31.48	4	4
	E.	31.163	3	31.87	30.90	3	3
W. B.$_2$ X. 406 ..	W.	10 23 10.347	3	+15 15 14.43	14.80	3	3
	E.	10.322	4	15.78	15.12	4	4
W. B.$_2$ X. 408 ..	W.	10 23 11.098	4	+16 15 20.68	20.72	4	4
	E.	11.083	3	21.17	21.30	3	3
46 Leonis......	W.	10 26 57.990	2	+14 38 24.10	24.50	2	2
	E.	57.930	3	25.60	25.10	3	3
Lalande 20406 .	W.	10 27 4.643	3	+13 25 23.20	23.63	3	3
	E.	4.610	[illegible]	22.55	22.70	[illegible]	2
A. G. C. 4189 ...	W.	10 28 18.385	2	+15 43 7.30	8.05	2	2
	E.	18.380	2	8.90	8.65	2	2
Lalande 20522 .	W.	10 31 49.543	3	+13 22 29.73	30.60	3	3
	E.	49.540	4	30.38	29.58	4	4

NAME.	CLAMP.	RIGHT ASCENSION 1902.0	NO. OBS.	DECLINATION 1902.0		NO. OBS.	
				A.	B.	A.	B.
		h m s		° ′ ″	″		
W. B.$_2$ X. 635	W.	10 33 56.453	3	+15 14 32.57	32.33	3	3
	E.	56.452	4	33.32	32.45	4	4
W. B.$_1$ X. 583	W.	10 35 26.320	3	+12 35 23.07	23.40	3	3
	E.	26.300	3	23.00	22.80	3	3
B. D. +14° 2285	W.	10 36 53.303	3	+13 59 1.23	1.47	3	3
	E.	53.313	3	3.57	2.10	3	3
Lalande 20748	W.	10 41 8.275	4	+13 15 51.83	52.30	3	4
	E.	8.282	4	52.00	51.62	4	4
k Leonis	W.	10 41 13.943	3	+14 42 43.13	44.60	3	3
	E.	13.917	3	44.50	44.33	3	3
l Leonis	W.	10 44 6.420	7	+11 3 50.67	51.21	7	7
	E.	6.409	7	49.60	50.64	7	7
χ Leonis	W.	10 59 57.769	7	+ 7 51 57.87	56.60	7	7
	E.	57.779	7	56.90	57.66	7	7
θ Leonis	W.	11 9 5.904	7	+15 57 54.16	54.29	7	7
	E.	5.904	7	55.80	54.13	7	7
β Virginis	W.	11 45 35.440	6	+ 2 19 0.88	1.17	6	6
	E.	35.440	6	1.73	1.11	6	6
7 Virginis	W.	11 54 55.785	6	+ 4 12 3.62	4.22	6	6
	E.	55.777	6	3.62	4.00	6	6
η Virginis	W.	12 14 53.513	6	− 0 7 19.22	19.75	6	6
	E.	53.513	6	20.02	19.50	6	6
W. B.$_1$ XII. 225	W.	12 16 36.870	3	+ 0 23 11.33	11.07	3	3
	E.	36.877	3	10.57	11.10	3	3
Lalande 23218	W.	12 19 40.080	3	+ 1 55 35.53	36.33	3	3
	E.	40.077	3	35.73	36.10	3	3
Lalande 23271	W.	12 21 45.003	3	+ 0 21 33.83	33.03	3	3
	E.	45.020	3	33.73	33.87	3	3
W. B.$_1$ XII. 363	W.	12 24 21.503	3	− 0 41 27 47	28.73	3	3
	E.	21.497	3	27.07	27.30	3	3
Lalande 23399	W.	12 26 14.147	3	+ 1 52 7.37	8.15	3	2
	E.	14.160	3	7.17	7.33	3	3
W. B.$_1$ XII. 420	W.	12 27 58.300	3	+ 0 15 57.93	56.70	3	3
	E.	58.283	3	56.93	57.13	3	3
Mayer 531	W.	12 29 21.870	3	− 0 52 2.83	3.90	3	3
	E.	21.850	3	3.33	2.63	3	3
B. D. +1° 2721	W.	12 30 49.680	3	+ 1 8 54.57	54.00	3	3
	E.	49.643	3	56.07	55.23	3	3
Lalande 23581	W.	12 32 3.963	3	− 1 46 41.93	42.97	3	3
	E.	3.940	3	44.03	43.10	3	3
B. D. −0° 2595	W.	12 33 55.480	3	− 0 18 55.57	56.40	3	3
	E.	55.487	3	55.50	54.37	3	3
Lalande 23700	W.	12 37 2.900	3	+ 1 1 59.60	60.17	3	3
	E.	2.903	3	59.57	59.40	3	2
B. D. −1° 2716	W.	12 37 55.463	3	− 1 42 54.80	56.63	3	3
	E.	55.465	2	55.55	55.75	2	2
Piazzi XII, 170	W.	12 39 9.430	3	− 2 18 19.40	21.13	3	3
	E.	9.440	2	20.20	19.80	2	2
Lalande 23859	W.	12 43 5.770	3	+ 0 10 32.70	32.00	3	3
	E.	5.760	3	33.53	33.83	3	3
W. B.$_1$ XII. 729	W.	12 45 22.157	3	− 1 17 26.90	27.90	2	3
	E.	22.160	3	28.70	27.70	3	3
δ Virginis	W.	12 50 39.980	6	+ 3 55 48.65	48.18	6	6
	E.	39.985	6	47.52	47.73	6	6
48 Virginis	W.	12 58 51.425	6	− 3 8 9.28	9.18	6	6
	E.	51.425	6	9.27	9.20	6	6
θ Virginis	W.	13 4 52.503	6	− 5 0 57.30	57.40	6	6
	E.	52.503	6	56.20	56.82	6	6
σ Scorpii	E.	16 15 13.795	8	−25 21 28.05	28.27	8	8
ρ Ophiuchi	E.	16 19 42.421	8	−23 13 19.81	19.25	8	8
τ Scorpii	E.	16 29 46.795	8	−28 0 46.26	46.12	8	8

NAME.	CLAMP.	RIGHT ASCENSION 1902.0	NO. OBS.	DECLINATION 1902.0		NO. OBS.	
				A.	B.	A.	B.
		h m s		° ′ ″	″		
Bradley 2115	E.	16 36 7.946	5	−19 44 13.68	13.60	5	5
O. A. 15868	E.	16 37 12.490	3	−21 9 24.13	22.50	3	3
15 Ophiuchi	E.	16 39 14.916	5	−23 0 6.44	6.34	5	5
O. A. 15982	E.	16 43 14.150	2	−20 16 60.45	58.70	2	2
Lalande 30551	E.	16 43 44.238	4	−21 40 50.22	49.35	4	4
O. A. 15999	E.	16 44 4.580	2	−23 16 41.40	41.20	2	2
O. A. 16091	E.	16 48 47.106	5	−21 43 10.76	9.78	5	5
24 Ophiuchi	E.	16 50 53.314	5	−22 59 41.72	41.76	5	5
Lalande 30869	E.	16 54 39.196	5	−21 18 46.86	45.60	5	5
Lalande 30946	E.	16 57 26.424	5	−23 0 39.72	39.76	5	5
Bradley 2162	E.	17 0 20.642	5	−21 25 45.34	44.34	5	5
O. A. 16358	E.	17 2 38.132	4	−23 5 53.02	53.08	4	4
Lalande 31247	E.	17 6 28.345	4	−22 48 21.42	20.88	4	4
Lalande 31255	E.	17 6 47.602	4	−21 29 15.40	14.45	4	4
Lacaille 7225	E.	17 12 7.935	4	−23 57 54.30	53.95	4	4
O. A. 16586	E.	17 12 59.965	4	−22 36 12.78	12.18	4	4
ξ Ophiuchi	E.	17 15 7.768	5	−21 0 29.56	28.32	5	5
Lalande 31556	E.	17 17 17.268	4	−22 54 54.50	54.65	4	4
Mayer 701	E.	17 18 50.286	5	−21 20 60.88	60.74	5	5
b Ophiuchi	E.	17 20 23.070	4	−24 5 7.92	8.45	4	4
O. A. 16823	E.	17 22 46.692	5	−22 29 59.76	59.40	5	5
51 Ophiuchi	E.	17 25 26.126	5	−23 53 13.90	13.90	5	5
52 Ophiuchi	E.	17 29 24.728	4	−21 58 41.60	41.00	4	4
Piazzi XVII, 142	E.	17 29 33.758	4	−24 33 40.15	40.58	4	4
C. P. D. −23° 6620	E.	17 31 49.568	4	−23 19 42.95	43.42	4	4
Bradley 2219	E.	17 32 51.448	4	−21 51 17.58	17.20	4	4
Piazzi XVII, 173	E.	17 34 51.148	5	−23 47 0.72	1.28	5	5
58 Ophiuchi	E.	17 37 33.415	4	−21 38 9.48	8.52	4	4
C. P. D. −24° 5939	E.	17 38 53.045	4	−24 38 27.52	26.80	4	4
O. A. 17155	E.	17 39 8.508	4	−22 50 46.60	46.38	4	4
Lalande 32491	E.	17 43 57.848	4	−24 10 30.75	30.58	4	4
O. A. 17263	E.	17 44 45.312	4	−21 54 6.22	6.52	4	4
Mayer 717	E.	17 45 10.888	4	−22 53 27.28	27.30	4	4
63 Ophiuchi	E.	17 48 52.082	4	−24 52 3.25	4.35	4	4
Mayer 723	E.	17 50 27.352	4	−21 56 23.18	22.38	4	4
Lalande 32742	E.	17 50 31.800	4	−23 22 27.30	28.48	4	4
4 Sagittarii	E.	17 53 48.522	4	−23 48 26.32	26.32	4	4
O. A. 17449	E.	17 53 57.500	3	−25 4 45.37	46.67	3	3
Mayer 728	E.	17 55 58.148	5	−22 46 40.68	40.74	5	5
Piazzi XVII, 342	E.	17 59 9.894	5	−24 24 13.46	14.78	5	5
Mayer 734	E.	18 1 18.678	4	−21 27 15.32	14.88	4	4
C. Z. XVIII. 11	E.	18 1 48.320	3	−23 6 58.50	59.00	3	3
Bradley 2276	E.	18 5 44.512	5	−23 43 16.16	16.62	5	5
μ Sagittarii	W.	18 7 54.138	6	−21 5 4.60	5.80	6	6
	E.	54.144	7	6.25	5.62	8	8
δ Sagittarii	E.	18 14 43.197	7	−29 52 10.61	10.50	8	8
λ Sagittarii	W.	18 21 55.348	6	−25 28 34.65	33.07	6	6
	E.	55.370	8	33.68	34.09	8	8
24 Sagittarii	W.	18 27 54.267	3	−24 6 19.83	19.70	3	3
	E.	54.272	4	19.95	20.35	4	4
O. A. 18413	W.	18 29 26.550	3	−22 10 3.30	5.03	3	3
	E.	26.547	3	3.53	3.87	3	3
Bradley 2332	W.	18 32 2.353	3	−21 28 43.90	44.30	3	3
	E.	2.357	3	45.03	43.93	3	3

NAME.	CLAMP.	RIGHT ASCENSION 1902.0	NO. OBS.	DECLINATION 1902.0 A.	DECLINATION 1902.0 B.	NO. OBS. A.	NO. OBS. B.
		h m s		° ′ ″	″		
Bradley 2333 . . .	W.	18 32 33.127	3	−23 35 19.03	19.50	3	3
	E.	33.120	3	19.13	20.33	3	3
26 Sagittarii . . .	W.	18 35 53.013	3	−23 55 29.37	29.37	3	3
	E.	53.012	4	29.62	30.45	4	4
O. A. 18582	W.	18 37 25.730	3	−22 30 22.97	23.53	3	3
	E.	25.710	3	22.60	22.77	3	3
Piazzi XVIII, 155 . .	W.	18 38 48.143	3	−25 6 34.00	33.53	3	3
	E.	48.133	3	34.07	34.67	3	3
28 Sagittarii . . .	W.	18 40 26.077	3	−22 29 41.63	43.00	3	3
	E.	26.017	3	41.73	41.63	3	3
O. A. 18667	W.	18 41 58.920	3	−23 21 49.93	50.13	3	3
	E.	58.897	3	47.97	48.87	3	3
30 Sagittarii . . .	W.	18 44 57.047	3	−22 16 27.10	28.00	3	3
	E.	57.053	3	28.10	28.63	3	3
Lalande 35010 .	W.	18 45 51.645	2	−24 46 10.65	10.45	2	2
	E.	51.630	3	10.33	10.67	3	3
ν¹ Sagittarii	W.	18 48 15.167	3	−22 51 56.53	57.33	3	3
	E.	15.195	4	55.12	56.55	4	4
C. P. D.−24° 6555 . .	E.	18 51 11.570	1	−23 59 36.60	36.90	1	1
ξ Sagittarii	W.	18 51 53.040	3	−21 14 7.60	8.97	3	3
	E.	53.027	3	8.57	9.10	3	3
Mayer 779	W.	18 55 43.290	3	−22 50 0.57	1.87	3	3
	E.	43.300	3	0.37	1.00	3	3
o Sagittarii	W.	18 58 48.647	3	−21 53 6.73	7.43	3	3
	E.	48.677	3	6.43	7.30	3	3
Lalande 35745 .	W.	19 2 49.213	3	−23 20 40.60	40.43	3	3
	E.	49.223	3	39.33	39.50	3	3
O. A. 19141	W.	19 3 37.857	3	−22 32 1.63	2.70	3	3
	E.	37.835	2	0.85	2.50	2	2
π Sagittarii	W.	19 3 56.185	2	−21 10 46.65	46.90	2	2
	E.	56.168	4	46.82	45.72	4	4
Lalande 36016 .	W.	19 8 16.770	3	−22 13 37.40	39.20	3	3
	E.	16.747	3	38.03	37.53	3	3
ψ Sagittarii	W.	19 9 31.940	7	−25 25 32.99	33.09	7	7
	E.	31.917	6	32.62	33.40	6	5
d Sagittarii	W.	19 11 54.090	7	−19 7 38.46	38.71	7	7
	E.	54.098	6	39.18	39.10	6	6
h Sagittarii	W.	19 30 44.660	6	−25 6 0.33	0.47	6	6
	E.	44.650	6	0.00	0.63	6	6
f Sagittarii	W.	19 40 38.770	3	−19 59 48.10	48.80	3	3
	E.	38.770	1	49.30	47.50	1	1
C. P. D.−21° 7493 . .	W.	19 40 42.150	3	−21 45 38.40	40.53	3	3
	E.	42.107	3	40.60	40.03	3	3
Lalande 37659 .	W.	19 44 25.603	3	−23 1 34.97	35.10	3	3
	E.	25.620	4	33.90	34.72	4	4
O. A. 20018	W.	19 46 8.675	4	−19 56 43.30	44.10	3	4
	E.	8.653	3	44.50	43.73	3	3
Lalande 38048 .	W.	19 53 45.760	3	−22 28 36.60	37.10	3	3
	E.	45.758	4	37.95	37.20	4	4
Lalande 38096 .	W.	19 54 48.243	3	−20 7 28.70	29.87	3	3
	E.	48.323	3	31.23	29.37	3	3
62 Sagittarii . . .	W.	19 56 37.998	6	−27 58 57.57	56.10	6	6
	E.	37.983	11	55.71	55.52	11	11
4 Capricorni . . .	W.	20 12 16.026	5	−22 6 45.22	46.33	6	6
	E.	16.025	10	47.11	46.47	10	10
β Capricorni . . .	W.	20 15 30.362	6	−15 5 27.43	27.55	6	6
	E.	30.354	7	28.21	29.14	7	7
π Capricorni . . .	W.	20 21 42.727	6	−18 31 59.82	59.58	6	6
	E.	42.720	3	58.33	59.10	3	3
o Capricorni . . .	W.	20 24 16.887	3	−18 54 27.63	27.70	3	3
	E.	16.867	3	27.03	28.00	3	2
B. D.−21° 5752.	W.	20 27 44.943	3	−21 13 48.73	49.87	3	3
	E.	44.912	4	49.88	48.78	4	4
Lalande 39577 .	W.	20 28 49.610	3	−19 43 56.60	57.73	3	3
	E.	49.623	3	57.00	56.57	3	3
O. A. 20628	W.	20 29 49.790	3	−18 7 25.80	26.63	3	3
	E.	49.778	4	26.85	26.70	4	4
Mayer 871	W.	20 30 46.247	3	−20 55 25.30	27.40	3	3
	E.	46.280	3	27.70	26.43	3	3
O. A. 20696	W.	20 33 55.280	3	−20 0 58.20	58.33	3	3
	E.	55.265	4	58.47	57.65	3	4
υ Capricorni . . .	W.	20 34 28.283	3	−18 29 1.70	1.03	3	3
	E.	28.327	3	1.63	1.30	3	3
O. A. 20754	W.	20 36 25.337	3	−21 37 25.10	26.43	3	3
	E.	25.318	4	27.17	26.60	3	4
Lalande 39981 .	W.	20 38 18.637	3	−19 41 44.80	44.40	3	3
	E.	18.657	3	43.60	43.53	3	3
B. D.−17° 6081	W.	20 41 2.620	3	−17 31 8.60	8.20	3	3
	E.	2.653	3	7.83	7.47	3	3
B. D.−19° 5925	W.	20 41 48.153	3	−18 58 45.03	44.57	3	3
	E.	48.192	4	45.72	45.30	4	4
B. D.−21° 5840	W.	20 43 35.300	3	−20 59 15.70	16.47	3	3
	E.	35.277	3	17.03	15.50	3	3
Mayer 881	W.	20 43 47.060	3	−18 23 50.70	51.73	3	3
	E.	47.100	4	50.70	51.52	4	4
Lalande 40257 .	W.	20 46 39.903	3	−20 0 39.93	39.73	3	3
	E.	39.903	3	39.67	38.50	3	3
Lalande 40311 .	W.	20 47 57.143	3	−19 29 0.93	0.03	3	3
	E.	57.192	4	1.95	0.80	4	4
19 Capricorni . .	W.	20 49 15.663	3	−18 17 40.27	39.97	3	3
	E.	15.677	3	40.73	40.33	3	3
20 Capricorni . .	W.	20 54 2.077	3	−19 24 53.87	54.93	3	3
	E.	2.115	4	55.70	55.55	4	4
21 Capricorni . .	W.	20 55 20.867	3	−17 54 47.07	47.43	3	3
	E.	20.890	3	46.80	47.47	3	3
B. D.−18° 5849	W.	20 58 29.937	3	−18 29 56.77	57.40	3	3
	E.	29.920	4	56.75	56.80	4	4
θ Capricorni . . .	W.	21 0 26.347	3	−17 37 20.03	20.07	3	3
	E.	26.367	3	20.87	20.70	3	3
Piazzi XX, 462 .	W.	21 1 56.687	3	−19 28 48.63	48.47	3	3
	E.	56.738	4	50.18	48.70	4	4
Piazzi XX, 487 .	W.	21 4 41.590	2	−16 5 59.30	58.80	2	2
	E.	41.620	2	59.25	59.45	2	2
Lalande 41000 .	W.	21 4 53.660	2	−17 21 22.10	21.80	2	2
	E.	53.675	2	21.15	20.95	2	2
O. A. 21183	W.	21 5 1.195	2	−18 43 45.00	45.40	[illegible]	2
	E.	1.195	2	44.75	44.35	2	2
Lalande 41191 .	W.	21 9 37.677	3	−17 45 2.17	2.67	3	3
	E.	37.730	3	2.07	2.40	3	3
ι Capricorni . . .	W.	21 16 47.443	6	−17 15 6.82	7.50	6	6
	E.	47.481	7	7.17	7.39	7	7
γ Capricorni . . .	W.	21 34 39.748	6	−17 6 18.23	18.57	6	6
	E.	39.727	7	18.70	18.67	7	7
κ Capricorni . . .	W.	21 37 11.250	6	−19 18 47.30	46.35	6	6
	E.	11.254	7	46.93	46.09	7	7
δ Capricorni . . .	W.	21 41 38.002	6	−16 34 20.22	20.13	6	6
	E.	37.983	7	19.43	20.06	7	7
λ Aquarii	W.	22 47 30.147	6	− 8 6 3.98	4.00	6	6
	E.	30.153	6	4.77	4.25	6	6
β Piscium	W.	22 58 53.367	6	+ 3 17 32.33	32.32	6	6
	E.	53.368	6	32.93	33.17	6	6
φ Aquarii	W.	23 9 14.867	6	− 6 34 38.62	38.75	6	6
	E.	14.858	6	38.45	39.23	6	6

NAME.	CLAMP.	RIGHT ASCENSION 1902.0	NO. OBS.	DECLINATION 1902.0		NO. OBS.	
				A.	B.	A.	B.
		h m s		° ′ ″	″		
96 Aquarii	W.	23 14 19.173	3	− 5 39 36.30	35.70	3	3
	E.	19.153	3	35.27	34.77	3	3
Lalande 45680 .	W.	23 15 11.060	2	− 4 27 9.50	9.25	2	2
	E.	11.030	2	8.95	9.80	2	2
Lalande 45698 .	W.	23 15 37.790	2	− 6 26 35.50	35.00	1	2
	E.	37.795	2	34.65	34.30	2	1
Schjellerup 9616 . . .	W.	23 16 10.585	2	− 7 33 36.55	36.10	2	2
	E.	10.570	2	35.75	35.95	2	2
B. D. −5° 5985 .	W.	23 19 44.830	3	− 5 35 3.57	3.57	3	3
	E.	44.790	4	4.02	3.85	4	4
Lalande 45877 .	W.	23 21 30.335	2	− 7 8 45.75	45.20	2	2
	E.	30.377	3	46.20	45.40	3	3
Lalande 45880 .	W.	23 21 35.730	3	− 5 46 17.87	17.87	3	3
	E.	35.723	3	18.13	17.97	3	3
Mayer 997	W.	23 24 28.137	3	− 5 3 59.90	59.93	3	3
	E.	28.120	3	59.87	60.90	3	3
Lalande 46034 .	W.	23 25 57.973	3	− 6 49 40.27	40.67	3	3
	E.	57.937	3	40.20	40.53	3	3
Lalande 46137 .	W.	23 28 25.840	3	− 4 56 31.93	32.03	3	3
	E.	25.823	3	32.07	32.33	3	3
λ Piscium	W.	23 37 2.762	6	+ 1 14 26.73	27.02	6	6
	E.	2.745	6	26.37	26.95	6	6
25 Piscium	W.	23 48 3.592	6	+ 1 32 45.07	45.70	6	6
	E.	3.597	6	44.45	45.17	6	6
27 Piscium	W.	23 53 39.365	6	− 4 5 58.85	59.30	6	6
	E.	39.360	6	58.68	58.88	6	6
30 Piscium	W.	23 56 56.053	6	− 6 33 31.87	32.18	6	6
	E.	56.065	6	31.03	32.17	6	6

CATALOGUE

OF

STARS IN LISTS II AND III.

NAME.	CLAMP.	RIGHT ASCENSION 1902.0	NO. OBS.	DECLINATION 1902.0.		NO. OBS.	
				A.	B.	A.	B.
		h m s		° ′ ″	″		
33 Piscium	W.	0 0 19.177	3	− 6 15 20.57	19.40	3	3
4 Ceti	W.	0 2 42.940	1	− 3 5 39.00	39.50	1	1
α Andromedæ	W.	0 3 19.223	3	+28 32 57.53	58.13	3	3
22 Andromedæ	W.	0 5 13.423	3	+45 31 36.53	36.10	3	3
κ² Sculptoris	W.	0 6 35.945	2	−28 20 45.45	43.50	2	2
γ Pegasi	W.	0 8 11.315	2	+14 38 18.60	20.25	2	2
35 Piscium	W.	0 9 55.900	1	+ 8 16 38.80	37.80	1	1
σ Andromedæ	W.	0 13 12.300	1	+36 14 31.60	33.50	1	1
d Piscium	W.	0 15 33.270	1	+ 7 38 46.60	47.40	1	1
44 Piscium	W.	0 20 22.717	9	+ 1 23 50.19	51.06	9	9
	E.	22.707	7	49.64	49.56	7	5
12 Ceti	W.	0 25 2.269	9	− 4 29 56.51	54.97	9	9
	E.	2.272	5	54.56	55.46	5	5
49 G. Ceti	W.	0 25 28.800	1	−24 19 48.10	46.90	1	1
κ Cassiopeiæ	W.	0 27 25.438	5	+62 23 25.94	28.00	5	5
77 G. Sculptoris	W.	0 28 50.380	1	−30 4 53.90	52.40	1	1
13 Ceti	W.	0 30 12.220	4	− 4 7 56.28	54.52	4	4
ζ Cassiopeiæ	W.	0 31 30.420	7	+53 21 26.57	27.89	7	7
	E.	30.476	5	29.10	28.10	5	5
82 B. Ceti	W.	0 32 18.730	4	−25 18 22.55	20.80	4	4
319 B. Cephei	E.	0 32 22.060	2	+81 57 8.75	.....	2	.
319 B. Cephei s. p.	E.	0 32 21.450	2	+81 57 9.75	.....	2	.
δ Andromedæ	W.	0 34 5.101	7	+30 19 28.10	28.40	7	7
	E.	5.140	5	29.78	29.80	5	5
α Cassiopeiæ	W.	0 34 56.502	4	+55 59 57.75	60.28	4	4
β Ceti	W.	0 38 40.305	2	−18 31 29.20	27.70	2	2
21 Cassiopeiæ	W.	0 39 10.157	9	+74 27 8.03	8.30	9	9
	E.	10.167	7	7.84	6.40	7	5
21 Cassiopeiæ s. p.	E.	0 39 10.250	2	+74 27 7.40	.....	2	.
ζ Andromedæ	W.	0 42 8.549	7	+23 44 2.04	2.79	7	7
	E.	8.544	5	2.72	2.24	5	5
η Cassiopeiæ	E.	0 43 10.100	2	+57 17 45.95	.....	2	.
δ Piscium	W.	0 43 35.820	4	+ 7 3 7.35	8.20	4	4
ν Andromedæ	W.	0 44 24.360	1	+40 32 42.10	43.40	1	1
B. D.+37° 151	W.	0 45 49.525	4	+37 30 34.30	35.20	4	4
	E.	49.555	4	36.25	35.98	4	4
20 Ceti	W.	0 47 59.975	4	− 1 40 34.28	34.55	4	4
γ Cassiopeiæ	W.	0 50 47.294	10	+60 11 8.58	9.80	10	10
	E.	47.314	5	10.82	11.10	5	5
μ Andromedæ	W.	0 51 18.700	1	+37 58 4.00	4.00	1	1
α Sculptoris	W.	0 53 53.132	4	−29 53 14.20	12.90	4	4
43 H. Cephei	W.	0 55 16.237	7	+85 43 52.87	54.35	7	6
	E.	16.216	7	53.29	52.52	7	4
43 H. Cephei s. p	W.	0 55 16.084	5	+85 43 53.72	53.42	5	5
	E.	16.157	7	54.10	54.18	8	5

NAME.	CLAMP.	RIGHT ASCENSION 1902.0	NO. OBS.	DECLINATION 1902.0.		NO. OBS.	
				A.	B.	A.	B.
		h m s		° ′ ″	″		
ε Piscium	W.	0 57 51.378	5	+ 7 21 46.30	46.78	5	4
	E.	51.357	3	44.73	.....	3	.
26 Ceti	W.	0 58 46.360	1	+ 0 50 30.00	31.00	1	1
72 Piscium	W.	0 59 54.868	4	+14 25 8.98	9.70	4	4
μ Cassiopeiæ	W.	1 1 44.770	1	+54 26 21.10	22.60	1	1
e Piscium	W.	1 3 19.248	4	+ 5 7 53.30	53.80	4	4
η Ceti	W.	1 3 39.622	5	−10 42 6.43	6.07	6	6
	E.	39.638	4	5.70	5.57	4	4
44 H. Cephei	W.	1 3 47.500	1	+79 9 7.80	.....	1	.
β Andromedæ	W.	1 4 14.510	1	+35 6 3.30	4.20	1	1
	E.	14.480	1	.. ..	.....	.	.
B. D.+36° 201	W.	1 5 39.713	3	+37 12 9.28	10.20	4	4
	E.	39.700	4	11.00	10.38	4	4
g Piscium	W.	1 5 42.348	4	+30 54 13.28	13.15	4	4
χ Piscium	W.	1 6 11.010	1	+20 30 48.20	49.10	1	1
B. D.+40° 249	W.	1 7 44.543	3	+40 42 57.90	59.78	4	4
	E.	44.582	4	59.25	59.12	4	4
ζ¹ Piscium	W.	1 8 36.625	4	+ 7 3 27.42	27.08	4	4
37 Ceti	W.	1 9 27.840	1	− 8 26 58.30	56.70	1	1
f Piscium	W.	1 12 44.587	11	+ 3 5 55.58	56.03	11	10
	E.	44.581	9	55.09	54.22	9	6
l Piscium	W.	1 15 42.128	4	+28 13 34.75	35.15	4	4
B. D.+42° 288	W.	1 16 29.447	3	+43 4 16.13	16.70	3	3
	E.	29.445	4	16.80	15.58	4	4
θ Ceti	W.	1 19 7.483	6	− 8 41 20.97	19.64	6	5
	E.	7.487	6	18.72	19.95	6	6
α Ursae Min.	W.	1 23 23.633	12	+88 47 4.85	3.95	12	11
	E.	23.266	10	3.58	3.07	9	7
α Ursæ Min. s. p.	W.	1 23 23.903	11	+88 47 4.52	3.70	23	23
	E.	23.692	12	3.75	3.86	21	19
40 Cassiopeiæ	W.	1 30 40.388	5	+72 32 26.22	26.98	4	5
	E.	40.448	5	26.64	26.12	5	5
τ Andromedæ	W.	1 34 47.455	4	+40 4 51.08	51.28	4	4
ν Piscium	W.	1 36 19.806	5	+ 4 59 29.98	31.02	5	5
	E.	19.808	6	31.97	31.45	6	6
φ Persei	W.	1 37 30.808	4	+50 11 42.42	41.50	4	4
ε Sculptoris	W.	1 41 3.403	10	−25 32 32.34	31.63	10	9
	E.	3.419	7	30.29	32.22	7	5
54 Ceti	W.	1 45 39.665	4	+10 33 30.25	31.12	4	4
ζ Ceti	W.	1 46 37.382	5	−10 49 8.24	7.32	5	5
	E.	37.377	6	8.75	8.15	6	6
ε Cassiopeiæ	W.	1 47 20.240	1	+63 11 13.70	.....	1	.
	E.	20.185	2	16.50	.....	2	.
ξ Piscium	W.	1 48 28.862	4	+ 2 42 14.45	16.50	4	4
β Arietis	W.	1 49 13.492	5	+20 19 43.96	44.54	5	5
	E.	13.481	7	46.65	45.62	6	6
ι Arietis	W.	1 51 59.706	5	+17 20 20.00	20.90	5	5

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		h m s		° ′ ″	″		
50 Cassiopeiæ	W.	1 55 3.300	10	+71 56 50.37	49.58	10	9
	E.	3.286	7	49.87	48.86	7	5
50 Cassiopeiæ s. p.	E.	1 55 3.260	2	+71 56 49.00	.....	2	.
υ Ceti	W.	1 55 23.260	1	−21 33 8.80	9.60	1	1
α Piscium	W.	1 56 58.540	1	+ 2 17 25.00	26.20	1	1
ν Fornacis	W.	2 0 5.920	4	−29 46 0.82	0.50	4	4
α Arietis	W.	2 1 38.780	1	+22 59 55.50	.....	1	.
	E.	38.777	3	58.03	.....	3	.
β Trianguli	W.	2 3 42.588	5	+34 31 24.68	26.45	5	4
	E.	42.530	2	26.95	.....	2	.
55 Cassiopeiæ	W.	2 6 47.060	5	+66 3 54.72	55.75	5	4
μ Fornacis	W.	2 8 35.555	4	−31 10 60.62	59.20	4	4
	E.	35.598	5	59.42	58.72	5	5
γ Trianguli	W.	2 11 29.119	8	+33 23 38.79	39.44	8	8
	E.	29.136	5	39.06	39.24	5	5
67 Ceti	W.	2 12 5.730	1	− 6 52 25.40	23.90	1	1
o Ceti	W.	2 14 23.750	4	− 3 25 20.02	19.60	4	4
κ Fornacis	W.	2 18 3.533	9	−24 15 40.60	40.72	9	8
	E.	3.542	8	41.14	42.20	8	5
ξ Arietis	W.	2 19 33.750	1	+10 10 1.40	2.10	1	1
ι Cassiopeiæ	W.	2 20 58.986	10	+66 57 44.07	42.76	10	9
	E.	58.984	5	43.48	41.80	5	5
ξ^2 Ceti	W.	2 22 56.810	1	+ 8 1 17.10	15.50	1	1
27 Arietis	W.	2 25 28.110	4	+17 16 14.20	13.75	4	4
σ Ceti	W.	2 27 26.552	4	−15 40 28.92	28.32	4	4
36 H. Cassiopeiæ	W.	2 28 42.280	1	+72 23 23.90	.....	1	.
128 H^1. Ceti	W.	2 30 42.335	4	+ 6 25 9.58	10.45	4	4
ν Ceti	W.	2 30 43.790	1	+ 5 9 55.90	57.30	1	1
ν Arietis	W.	2 33 14.982	4	+21 32 16.35	17.45	4	4
142 H^1. Cephei	W.	2 33 37.840	1	+81 1 59.70	.....	1	.
	E.	37.567	3	61.27	.....	3	.
δ Ceti	W.	2 34 27.510	6	− 0 5 36.73	37.72	6	6
	E.	27.502	5	37.88	38.14	5	5
118 H^1. Cassiopeiæ	W.	2 36 23.192	4	+67 24 30.18	30.28	4	4
μ Arietis	W.	2 36 50.290	1	+19 35 38.70	38.80	1	1
θ Persei	W.	2 37 30.110	5	+48 48 51.68	49.90	5	5
	E.	30.096	5	52.38	51.50	5	5
γ Ceti	W.	2 38 13.330	1	+ 2 49 22.90	.....	1	.
	E.	13.335	2	24.10	.....	2	.
π Ceti	W.	2 39 27.512	9	−14 16 24.38	23.92	9	9
	E.	27.502	5	24.36	25.58	5	5
μ Ceti	W.	2 39 38.585	2	+ 9 42 3.15	3.30	2	2
39 Arietis	W.	2 42 4.285	4	+28 50 24.72	24.38	4	4
η Persei	W.	2 43 32.520	2	+55 29 19.45	20.25	2	2
41 Arietis	W.	2 44 12.788	8	+26 51 24.34	24.44	8	8
	E.	12.800	5	25.08	25.10	5	5
β Fornacis	W.	2 44 59.410	1	−32 49 1.60	.....	1	.
	E.	59.393	3	1.73	.....	3	.
σ Arietis	W.	2 46 4.835	2	+14 40 41.25	42.65	2	2
τ^2 Eridani	W.	2 46 35.595	4	−21 24 26.10	27.95	4	4
τ Persei	W.	2 47 18.276	5	+52 21 42.12	42.64	5	5
	E.	18.282	5	43.62	42.12	5	5
47 H. Cephei	W.	2 53 2.363	7	+79 1 52.86	53.75	7	6
	E.	2.296	7	53.66	53.80	7	5
47 H. Cephei s. p.	W.	2 53 2.316	5	+79 1 54.44	54.88	5	5
	E.	2.352	5	55.92	55.18	5	5

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		h m s		° ′ ″	″		
λ Ceti	W.	2 54 27.618	4	+ 8 31 2.58	1.80	4	4
α Ceti	W.	2 57 9.335	2	+ 3 42 19.95	21.40	2	1
	E.	9.363	3	20.23	.....	3	.
γ Persei	W.	2 57 41.565	4	+53 7 22.35	22.58	4	4
ρ Persei	W.	2 58 53.608	5	+38 27 38.44	38.04	5	5
	E.	53.644	5	39.36	38.16	5	5
Lalande 5724	W.	3 1 0.765	4	+12 48 33.80	34.62	4	4
β Persei	W.	3 1 47.306	5	+40 34 41.92	41.92	5	5
	E.	47.372	5	42.14	41.48	5	5
δ Arietis	W.	3 6 1.395	4	+19 21 22.98	21.75	4	4
48 H. Cephei	W.	3 7 52.262	5	+77 22 29.58	29.64	5	5
	E.	52.312	5	29.36	29.46	5	5
1 H^1. Camelop.	W.	3 11 21.590	3	+65 17 38.40	38.53	3	3
κ Ceti	W.	3 14 13.207	3	+ 3 0 39.67	41.40	3	3
α Persei	W.	3 17 19.293	9	+49 30 45.29	44.87	9	9
	E.	19.338	5	46.88	46.42	5	5
o Tauri	W.	3 19 32.284	7	+ 8 41 4.40	3.61	7	7
	E.	32.276	8	3.28	3.70	8	5
2 H. Camelop.	W.	3 21 7.630	2	+59 35 56.35	56.55	2	2
ξ Tauri	W.	3 21 51.402	5	+ 9 23 29.92	29.18	5	5
	E.	51.384	5	28.50	29.76	5	5
s Tauri	W.	3 25 2.993	3	+11 0 1.90	2.50	3	3
f Tauri	W.	3 25 27.696	5	+12 36 4.20	4.30	5	5
	E.	27.650	5	4.60	2.74	5	5
ε Eridani	W.	3 28 18.794	8	− 9 47 22.20	22.09	8	8
	E.	18.794	5	23.16	22.35	5	4
10 Tauri	W.	3 31 52.250	3	+ 0 5 29.57	28.19	3	3
11 H^1. Camelop.	W.	3 33 38.768	5	+62 53 56.70	57.26	5	5
	E.	38.788	5	58.16	57.40	5	5
Piazzi III, 103	W.	3 33 53.095	2	+16 13 5.05	5.80	2	2
δ Persei	W.	3 35 56.612	5	+47 28 28.06	26.54	5	5
	E.	56.678	5	27.80	27.92	5	5
13 Tauri	W.	3 36 39.660	1	+19 23 11.70	12.90	1	1
B. D.+19° 579	W.	3 36 49.610	1	+19 50 14.60	14.70	1	1
ν Persei	W.	3 38 31.970	1	+42 16 8.30	9.30	1	1
5 H. Camelop.	W.	3 40 0.346	5	+71 1 49.50	50.14	5	5
	E.	0.406	5	50.08	49.86	5	5
η Tauri	W.	3 41 39.420	2	+23 48 7.30	8.50	2	2
τ^6 Eridani	W.	3 42 37.932	5	−23 32 20.24	20.90	5	5
	E.	37.940	3	19.40	20.60	3	3
τ^7 Eridani	W.	3 43 26.790	1	−24 10 41.40	39.90	1	1
Mayer 136	W.	3 47 33.730	2	+17 3 7.75	8.70	2	2
ε Persei	W.	3 51 16.460	7	+39 43 37.14	37.21	7	7
	E.	16.518	5	37.18	37.12	5	5
γ Eridani	W.	3 53 27.413	7	−13 47 12.84	12.63	7	7
	E.	27.418	5	12.86	13.98	5	5
τ^9 Eridani	W.	3 55 44.795	2	−24 17 37.65	37.40	2	2
ν Tauri	W.	3 57 56.530	5	+ 5 43 4.60	4.22	5	5
	E.	56.526	5	4.62	4.44	5	5
A Tauri	W.	3 58 53.994	5	+21 48 50.76	51.36	5	5
	E.	53.990	3	53.23	52.17	3	3
λ Persei	W.	3 59 16.730	2	+50 5 8.65	8.15	2	2
c Persei	W.	4 1 32.616	5	+47 27 4.18	2.92	5	5
	E.	32.598	4	4.40	4.88	4	4
151 H^1. Cephei	W.	4 5 40.316	5	+85 17 46.98	47.30	5	5
	E.	40.080	4	48.22	46.82	4	4

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		h m s		° ′ ″	″		
151 H^1. Cephei s. p.	W.	4 5 40.196	5	+85 17 49.26	48.78	5	5
	E.	40.022	16	47.97	48.08	18	18
γ Tauri	W.	4 14 12.908	4	+15 23 27.90	28.38	5	5
	E.	12.922	4	29.46	28.28	5	5
B. D. +35° 860..	W.	4 17 8.343	3	+35 40 22.65	24.25	4	4
	E.	8.392	5	26.44	24.94	5	5
δ Tauri........	W.	4 17 16.896	5	+17 18 45.48	45.14	5	5
	E.	16.868	4	48.68	47.25	4	4
ε Tauri........	W.	4 22 53.572	5	+18 57 47.28	46.78	5	5
	E.	53.566	7	48.36	47.03	5	7
B. D. +39° 1013.	W.	4 24 42.123	3	+39 47 50.78	50.68	4	4
	E.	42.228	4	51.95	50.42	4	4
α Tauri	W.	4 30 17.796	5	+16 18 43.30	44.08	5	5
	E.	17.802	5	46.92	44.58	5	5
53 Eridani.....	W.	4 33 41.554	5	−14 29 43.72	42.90	5	5
	E.	41.546	5	42.14	43.22	5	5
35 B. Camelop.	W.	4 35 38.392	5	+75 45 47.20	47.26	5	5
	E.	38.286	5	47.00	46.40	5	5
35 B. Camelop. s. p.	W.	4 35 38.286	5	+75 45 48.80	49.18	5	5
	E.	38.248	4	47.60	48.52	4	4
4 Camelop	W.	4 39 50.252	5	+56 34 59.66	60.26	5	5
	E.	50.246	5	60.32	60.58	5	5
50 H. Cephei...	E.	4 41 59.500	1	+81 1	54.90	.	1
50 H. Cephei s. p.	E.	4 41 59.640	1	+81 1	54.40	.	1
9 Camelop	W.	4 44 18.262	5	+66 10 33.92	34.36	5	5
	E.	18.246	5	36.32	35.14	5	5
i Tauri	E.	4 45 38.425	2	+18 40	24.30	.	2
π^5 Orionis	W.	4 49 8.746	5	+ 2 16 50.06	50.22	5	5
	E.	8.752	5	49.90	48.76	5	5
η Aurigæ......	W.	4 59 38.396	5	+41 6 7.06	7.88	5	5
	E.	38.470	5	8.10	8.16	5	5
ε Leporis	E.	5 1 18.767	3	−22 30	8.57	.	3
β Eridani......	W.	5 3 1.880	3	− 5 12 47.23	46.13	3	3
	E.	1.882	5	45.96	47.34	5	5
19 H. Camelop.	E.	5 6 23.847	3	+79 7	8.03	.	3
19 H. Camelop. s. p.	W.	5 6 23.944	5	+79 7 9.40	8.96	5	5
	E.	23.912	8	9.16	8.46	5	8
μ Aurigæ......	W.	5 6 43.240	5	+38 22 7.00	6.90	5	5
	E.	43.288	5	7.84	7.98	5	5
α Aurigæ......	W.	5 9 26.828	5	+45 53 55.40	55.18	5	5
	E.	26.888	5	55.74	55.72	5	5
τ Orionis	W.	5 12 50.876	5	− 6 56 60.18	59.14	5	5
	E.	50.883	7	59.95	60.51	4	7
B. D. +37° 1175	W.	5 17 59.466	5	+37 17 37.92	37.94	5	5
	E.	59.550	4	38.60	37.60	4	4
17 Camelop....	W.	5 20 54.728	5	+62 59 6.66	7.64	5	5
	E.	54.755	8	8.76	7.76	5	8
χ Aurigæ......	W.	5 26 20.880	5	+32 7 10.78	11.04	5	5
	E.	20.938	4	11.68	11.48	4	4
74 B. Camelop .	E.	5 26 37.033	3	+74 58	45.07	.	3
74 B. Camelop. s. p.	E.	5 26 36.907	3	+74 58	46.87	.	3
α Leporis......	W.	5 28 24.458	5	−17 53 31.80	32.28	5	5
	E.	24.490	5	31.86	32.70	5	5
158 H^1. Cephei.	E.	5 30 32.110	3	+85 8	53.73	.	3
158 H^1. Cephei s. p.	E.	5 30 31.903	3	+85 8	54.97	.	3
ε Orionis	W.	5 31 14.426	5	− 1 15 50.12	51.18	5	5
	E.	14.430	5	51.96	51.22	5	5
B. D. +40° 1369	W.	5 34 12.244	5	+40 49 46.06	46.58	5	5
	E.	12.295	4	48.15	47.55	4	4
α Columbæ....	W.	5 36 6.006	5	−34 7 32.94	33.22	5	5
	E.	6.020	5	33.56	34.80	5	5
υ Aurigæ	W.	5 38 18.480	5	+49 47 2.04	0.20	5	5
	E.	18.478	5	1.38	2.02	5	5
κ Orionis......	W.	5 43 6.515	4	− 9 42 15.50	15.00	4	4
	E.	6.536	5	16.14	15.82	5	5
α Orionis......	W.	5 49 52.005	4	+ 7 23 20.88	21.55	4	4
	E.	51.988	5	19.84	20.86	5	5
β Aurigæ......	W.	5 52 20.330	4	+44 56 16.05	16.22	4	4
	E.	20.380	5	16.68	16.00	5	5
θ Aurigæ	E.	5 53 2.315	2	+37 12	21.40	.	2
1 Geminorum ..	E.	5 58 9.830	2	+23 16	.....	.	.
η Geminorum..	W.	6 8 57.698	4	+22 32 7.10	7.20	4	4
	E.	57.722	8	8.28	7.21	4	7
23 H. Camelop.	W.	6 29 31.055	4	+79 40 15.45	15.10	4	4
	E.	31.154	7	15.92	16.06	5	7
51 Aurigæ	W.	6 31 52.112	4	+39 28 37.82	38.02	4	4
	E.	52.200	5	38.44	38.24	5	5
S Monocerotis .	W.	6 35 34.858	4	+ 9 59 12.12	11.85	4	4
	E.	34.878	4	12.25	12.75	4	4
ε Geminorum..	W.	6 37 54.203	3	+25 13 41.03	43.40	3	3
	E.	54.207	7	41.90	42.21	5	7
ξ Geminorum ..	W.	6 39 47.387	3	+13 0 4.77	6.73	3	3
	E.	47.378	5	7.06	5.36	5	5
18 Monocerotis.	W.	6 42 45.060	4	+ 2 31 10.62	11.88	4	4
	E.	45.050	5	11.88	11.58	5	5
24 H. Camelop.	E.	6 45 46.885	2	+77 6	8.50	.	2
24 H. Camelop. s. p.	E.	6 45 46.840	1	+77 6	9.90	.	1
θ Geminorum ..	W.	6 46 19.870	4	+34 4 46.68	47.68	4	4
	E.	19.858	5	46.78	47.26	5	5
15 Lyncis......	W.	6 48 47.568	4	+58 33 4.70	6.32	4	4
	E.	47.590	5	5.54	6.56	5	5
51 H. Cephei ..	W.	6 54 43.325	4	+87 12 11.45	10.40	4	3
	E.	43.586	7	11.38	10.44	5	7
51 H. Cephei s. p.	E.	6 54 43.055	2	+87 12 12.50	12.23	1	3
γ Canis Majoris	W.	6 59 19.483	3	−15 29 18.50	17.23	3	3
	E.	19.466	5	17.10	18.04	5	5
B. D. +37° 1660.	W.	7 1 58.608	4	+37 35 55.35	55.72	4	4
	E.	58.658	4	55.52	55.72	4	4
δ Canis Majoris	W.	7 4 24.432	4	−26 14 14.62	14.52	4	4
	E.	24.406	5	13.84	15.16	5	5
63 Aurigæ	E.	7 4 55.015	2	+39 28	50.20	.	2
19 Lyncis.......	W.	7 14 52.400	4	+55 27 58.80	58.88	4	4
	E.	52.430	4	58.70	58.10	4	4
ι Geminorum ..	W.	7 19 38.450	4	+27 59 34.22	33.72	4	4
	E.	38.486	5	35.42	35.80	5	5
ρ Geminorum..	W.	7 22 48.545	4	+31 58 45.62	46.12	4	4
	E.	48.582	5	46.60	46.34	5	5
α Geminorum .	W.	7 28 20.918	4	+32 6 13.30	13.20	4	4
	E.	20.928	5	13.70	14.16	5	5
B. D. +40° 1903.	W.	7 30 35.480	4	+40 14 39.38	40.20	4	4
	E.	35.515	4	39.28	39.82	4	4
24 Lyncis......	W	7 34 43.122	4	+58 56 23.02	24.12	4	4
	E	43.144	5	23.48	24.48	5	5
β Geminorum .	W.	7 39 19.242	4	+28 15 47.05	46.50	4	4
	E.	19.242	4	46.30	47.48	4	4

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		h m s		° ′ ″	″		
π Geminorum	W.	7 41 11.348	4	+33 39 21.95	23.38	4	4
	E.	11.385	4	24.22	24.22	4	4
ξ Argus	E.	7 45 10.390	1	−24 36 48.90	48.20	1	1
166 B. Camelop.	W.	7 48 28.620	4	+74 10 46.10	46.85	4	4
	E.	28.692	5	48.28	47.48	5	5
ω¹ Cancri	W.	7 55 0.162	4	+25 39 39.35	40.15	4	4
	E.	0.157	6	41.80	40.92	6	6
χ Geminorum	W.	7 57 30.062	4	+28 4 9.75	9.08	4	4
	E.	30.035	6	8.90	10.97	6	6
27 Lyncis	W.	8 1 5.292	4	+51 47 21.58	21.72	4	4
	E.	5.305	6	22.63	22.00	6	6
ρ Argus	W.	8 3 22.272	4	−24 1 17.60	17.35	4	4
	E.	22.226	5	16.60	17.70	5	5
ζ Cancri	E.	8 6 35.530	1	+17 56 36.50	34.80	1	1
173 B. Camelop.	W.	8 7 14.668	4	+76 3 22.70	22.72	4	4
	E.	14.770	5	22.88	22.12	5	5
d¹ Cancri	E.	8 17 45.240	1	+18 38 51.00	49.20	1	1
υ Ursæ Majoris.	E.	8 22 7.580	1	+61 2 46.80	46.30	1	1
110 B. Lyncis	E.	8 26 32.880	1	+38 21 11.10	10.50	1	1
γ Cancri	E.	8 37 36.990	1	+21 49 17.60	18.80	1	1
ι Cancri	E.	8 40 46.140	1	+29 7 6.60	7.00	1	1
1 H. Draconis	W.	9 23 8.879	7	+81 45 35.02	37.09	8	8
	E.	8.987	7	35.30	34.55	7	6
β Leonis	E.	11 44 3.675	2	+15 7 12.50	.....	2	.
128 H¹. Camelop	E.	11 59 47.935	2	+86 7 48.65	.....	2	.
128 H¹. Camelop. S. P.	E.	11 59 49.105	2	+86 7 47.50	.....	2	.
4 H. Draconis	E.	12 7 36.720	2	+78 9 37.40	.....	2	.
4 H. Draconis S. P.	E.	12 7 36.860	2	+78 9 37.80	.....	2	.
5 B. Ursæ Min.	E.	12 13 57.860	2	+86 58 49.45	.....	2	.
5 B. Ursæ Min. S. P.	E.	12 13 59.290	2	+86 58 48.80	.....	2	.
6 B. Ursæ Min. S. P.	W.	12 14 23.653	14	+88 14 35.21	34.09	14	14
	E.	23.352	6	35.67	35.65	6	6
κ Draconis	E.	12 29 18.150	2	+70 19 41.30	.....	2	.
κ Draconis S. P.	W.	12 29 18.264	5	+70 19 43.08	44.48	5	5
	E.	18.215	6	43.20	44.00	6	4
32² H. Camelop.	E.	12 48 23.620	2	+83 56 44.20	.....	2	.
32² H. Camelop. S. P.	W.	12 48 23.670	1	+83 56 44.10	.....	1	.
	E.	23.857	3	44.63	.....	3	.
12 Canum Venat	W.	12 51 26.660	5	+38 50 50.56	51.28	5	5
	E.	26.722	5	52.14	52.48	5	5
ε Virginis	E.	12 57 17.940	2	+11 29 9.45	.....	2	.
θ Virginis	E.	13 4 52.510	2	− 5 0 55.80	.....	2	.
r Centauri	E.	13 11 26.455	2	−30 59 14.70	.....	2	.
γ Hydræ	W.	13 13 35.564	5	−22 39 15.72	16.58	5	5
	E.	35.527	7	16.13	16.22	7	5
25 Canum Venat	W.	13 33 6.436	5	+36 47 35.40	35.96	5	5
	E.	6.468	5	35.76	35.14	5	5
13 B. Ursæ Min.	E.	13 34 49.675	2	+71 44 26.20	.....	2	.
13 B. Ursæ Min. S. P.	W.	13 34 49.540	1	+71 44 28.00	.....	1	.
	E.	49.615	2	26.60	.....	2	.
m Virginis	W.	13 36 28.060	5	− 8 12 31.38	30.40	5	5
	E.	28.020	5	30.50	30.28	5	5
τ Bootis	W.	13 42 36.332	5	+17 56 42.54	41.68	5	5
	E.	36.300	7	43.14	42.04	7	5
89 Virginis	W.	13 44 32.732	5	−17 38 44.90	44.60	5	5
	E.	32.664	5	45.26	45.38	5	5
B. D. +40° 2701	W.	13 47 36.326	5	+40 9 14.48	15.02	5	5
	E.	36.360	5	16.52	16.22	5	5
i Draconis	E.	13 48 34.195	2	+65 12 27.05	.....	2	.
η Bootis	W.	13 50 1.114	5	+18 53 20.22	20.30	5	5
	E.	1.110	5	20.32	20.58	5	5
τ Virginis	W.	13 56 39.498	5	− 2 1 7.00	9.02	5	5
	E.	39.456	5	8.24	8.58	5	5
π Hydræ	E.	14 0 47.325	2	−26 12 35.35	.....	2	.
α Draconis	W.	14 1 44.136	5	+64 50 37.44	38.42	5	5
	E.	44.134	5	40.08	38.60	5	5
d Bootis	W.	14 5 55.782	5	+25 33 20.00	21.96	5	5
	E.	55.778	5	21.10	21.44	5	5
4 Ursæ Min	W.	14 9 13.560	5	+78 0 27.32	27.60	5	5
	E.	13.480	7	28.80	28.70	7	5
4 Ursæ Min. S. P.	W.	14 9 13.275	2	+78 0 29.10	28.30	2	1
	E.	13.323	3	28.43	.....	3	.
λ Bootis	E.	14 12 39.570	1	+46 32 19.00	.....	1	.
λ Virginis	W.	14 13 48.354	5	−12 55 12.12	11.58	5	5
	E.	48.316	5	13.06	12.42	5	5
θ Bootis	W.	14 21 51.638	5	+52 18 12.44	12.98	5	5
	E.	51.640	5	14.42	12.68	5	5
ρ Bootis	E.	14 27 36.427	3	+30 48 5.20	5.80	2	2
5 Ursæ Min. S. P.	W.	14 27 43.697	6	+76 7 55.57	54.35	6	6
	E.	43.564	7	52.27	54.00	7	4
γ Bootis	W.	14 28 7.924	5	+38 44 12.70	13.34	5	5
	E.	7.990	5	12.46	12.50	5	5
Mayer 591	E.	14 29 19.720	3	−20 0 34.00	33.00	3	3
6 B. Libræ	E.	14 31 46.887	3	−11 53 20.03	20.47	3	3
33 Bootis	W.	14 35 11.395	5	+44 49 38.30	38.22	5	5
	E.	11.434	5	40.24	38.90	5	5
π Bootis	E.	14 36 7.253	3	+16 50 20.13	18.63	3	3
μ Virginis	E.	14 37 53.683	3	− 5 13 55.87	56.97	3	3
5 Libræ	E.	14 40 33.460	3	−15 2 47.33	48.20	3	3
109 Virginis	W.	14 41 17.620	5	+ 2 18 20.94	21.86	5	5
	E.	17.602	5	22.00	21.16	5	5
α Libræ	W.	14 45 27.372	5	−15 38 4.64	3.42	5	5
	E.	27.324	8	4.62	4.70	8	8
61 B. Draconis	W.	14 48 57.140	5	+59 41 30.10	31.52	5	5
	E.	57.135	4	32.40	32.94	5	5
ξ¹ Libræ	E.	14 49 3.570	3	−11 29 54.37	54.03	3	3
β Ursæ Min. S. P.	W.	14 50 59.208	5	+74 33 22.12	22.32	5	4
	E.	58.990	3	21.30	.....	3	.
ξ² Libræ	E.	14 51 26.967	3	−11 0 50.60	51.03	3	3
δ Libræ	E.	14 55 44.127	3	− 8 7 47.83	47.73	3	3
β Bootis	W.	14 58 15.210	5	+40 46 36.68	36.36	5	5
	E.	15.264	5	36.66	36.08	5	5
γ Scorpii	E.	14 58 19.953	3	−24 53 48.17	49.27	3	3
ψ Bootis	E.	15 0 14.780	3	+27 19 47.50	47.63	3	3
c Bootis	E.	15 2 59.827	3	+25 15 2.90	2.03	3	3
ι Libræ	E.	15 6 38.030	3	−19 25 15.50	15.83	3	3
1 Lupi	E.	15 8 36.963	3	−31 9 11.07	10.00	3	3
57 B. Ursæ Min. S. P.	E.	15 8 38.733	3	+87 36 35.97	.....	3	.

NAME.	CLAMP.	RIGHT ASCENSION 1902.0	NO. OBS.	DECLINATION 1902.0		NO. OBS.	
				A.	B.	A.	B.
		h m s		° ′ ″	″		
β Libræ	E.	15 11 43.932	4	− 9 1 16.20	16.52	4	4
1 H. Ursæ Min.	W.	15 13 30.752	5	+67 43 7.56	7.52	5	5
	E.	30.744	5	7.04	7.18	5	5
1 H. Ursæ Min. S. P.	W.	15 13 30.798	4	+67 43 7.98	8.15	4	4
	E.	30.655	4	8.42	9.05	4	4
B. D. +41° 2592	W.	15 16 28.482	5	+41 19 57.58	59.00	5	5
	E.	28.524	5	61.12	59.50	5	5
o^2 Libræ	E.	15 17 33.716	5	−14 47 3.52	4.42	5	5
μ Bootis	W.	15 20 47.254	5	+37 43 14.08	15.12	5	5
	E.	47.344	11	14.70	14.79	11	11
32 Libræ	E.	15 22 43.678	4	−16 22 29.05	29.40	4	4
ι Draconis	W.	15 22 44.876	5	+59 18 32.20	32.60	5	5
	E.	44.916	5	33.12	34.64	5	5
β Coronæ Borealis	E.	15 23 47.300	2	+29 26 35.85	36.00	2	1
Mayer 622	E.	15 26 58.828	5	−19 20 12.62	12.06	5	5
ν^1 Bootis	W.	15 27 24.514	5	+41 9 59.82	60.74	5	5
	E.	24.582	5	62.42	61.30	5	5
γ Libræ	W.	15 30 2.544	5	−14 27 46.28	45.00	5	5
	E.	2.546	9	46.18	46.71	9	9
α Coronæ Borealis	E.	15 30 32.290	1	+27 2 39.10	40.00	1	1
B. D. +38° 2678	W.	15 32 11.748	5	+38 41 55.08	54.98	5	5
	E.	11.820	5	55.84	56.02	5	5
42 Libræ	E.	15 34 29.145	4	−23 29 58.02	58.35	4	4
ζ Coronæ Borealis	W.	15 35 41.206	5	+36 57 12.82	12.90	5	5
	E.	41.248	5	13.48	12.46	5	5
κ Libræ	E.	15 36 17.902	4	−19 21 39.60	40.52	4	4
B. D. +39° 2901	W.	15 37 50.780	5	+38 52 18.52	18.50	5	5
	E.	50.798	4	19.30	19.60	4	4
η Libræ	E.	15 38 33.512	4	−15 21 37.85	38.78	4	4
β Serpentis	W.	15 41 39.852	5	+15 43 41.70	42.96	5	5
	E.	39.833	9	43.37	42.41	9	9
κ Serpentis	W.	15 44 19.688	5	+18 26 38.64	37.72	5	5
	E.	19.666	5	39.72	38.24	5	5
μ Serpentis	E.	15 44 30.274	5	− 3 7 48.90	49.44	5	5
ζ Ursæ Min	W.	15 47 32.990	5	+78 5 45.62	45.56	5	5
	E.	33.018	5	44.80	45.46	5	5
ζ Ursæ Min. S. P.	W.	15 47 32.974	5	+78 5 46.18	44.96	5	5
	E.	32.777	3	45.40	46.43	3	3
λ Libræ	E.	15 47 38.572	5	−19 52 26.14	26.10	5	5
ρ Scorpii	E.	15 50 49.872	5	−28 55 39.48	40.64	5	5
B. D. +38° 2712	W.	15 52 13.626	5	+38 13 47.56	47.94	5	5
	E.	13.704	5	47.54	47.62	5	5
π Scorpii	E.	15 52 55.266	5	−25 49 53.88	55.14	5	5
δ Scorpii	W.	15 54 32.242	5	−22 20 34.64	35.42	5	5
	E.	32.231	10	33.92	34.20	10	10
r Herculis	E.	15 56 50.072	4	+18 5 21.30	20.50	4	4
β^1 Scorpii	E.	15 59 44.198	4	−19 32 13.18	13.62	4	4
θ Draconis	W.	16 0 3.096	5	+58 49 35.38	36.38	5	5
	E.	3.094	5	37.28	37.76	5	5
ω^2 Scorpii	E.	16 1 39.345	4	−20 36 14.82	14.70	4	4
σ^2 Coronæ Borealis	W.	16 11 0.510	5	+34 6 23.92	24.60	5	5
	E.	0.558	10	24.28	23.94	10	10
ε Ophiuchi	W.	16 13 8.120	5	−4 27 13.72	12.16	5	5
	E.	8.102	10	13.05	13.72	10	10
19 Ursæ Min. S. P.	W.	16 13 36.752	5	+76 7 30.24	28.82	5	5
	E.	36.648	4	27.68	28.68	4	4
σ Scorpii	E.	16 15 13.788	4	−25 21 25.95	27.85	4	4
γ Herculis	W.	16 17 35.802	5	+19 22 59.08	59.10	5	5
	E.	35.792	5	59.60	59.66	5	5
ψ Ophiuchi	E.	16 18 21.980	4	−19 48 29.25	28.00	4	4
η Ursæ Min	W.	16 20 21.834	5	+75 58 51.70	51.60	5	5
	E.	21.858	5	52.02	51.34	5	5
η Ursæ Min. S. P.	W.	16 20 21.852	4	+75 58 53.78	53.62	5	5
	E.	21.808	4	51.42	52.85	4	4
χ Ophiuchi	E.	16 21 20.528	4	−18 14 1.98	3.20	4	4
α Scorpii	W.	16 23 23.892	5	−26 12 53.78	53.46	5	5
	E.	23.863	9	50.71	52.59	9	9
φ Ophiuchi	E.	16 25 31.670	4	−16 23 56.90	58.07	4	3
β Herculis	W.	16 26 0.402	5	+21 42 10.38	11.38	5	5
	E.	0.382	5	11.38	10.76	5	5
34 Herculis	E.	16 27 24.490	4	+49 10 28.22	28.32	4	4
A Draconis S. P.	W.	16 28 10.372	5	+68 58 49.88	50.00	5	5
	E.	10.368	5	49.58	50.24	5	5
τ Scorpii	E.	16 29 46.780	4	−28 0·44.08	44.80	4	4
σ Herculis	W.	16 30 56.574	5	+42 38 19.10	19.78	5	5
	E.	56.602	5	20.82	19.88	5	5
ζ Ophiuchi	E.	16 31 45.685	4	−10 22 6.90	7.15	4	4
Bradley 2115	E.	16 36 7.920	3	−19 44 12.20	12.33	3	3
15 Ophiuchi	E.	16 39 14.920	3	−23 0 5.43	5.67	3	3
η Herculis	W.	16 39 32.130	5	+39 6 30.14	29.82	5	5
	E.	32.168	5	29.96	29.68	5	5
114 B. Draconis	W.	16 43 26.200	5	+56 57 24.32	24.58	5	5
	E.	26.216	5	25.02	24.06	5	5
18 Ophiuchi	E.	16 43 46.383	3	−24 28 7.47	7.13	3	3
49 Herculis	W.	16 47 37.140	4	+15 8 17.25	18.15	4	4
	E.	37.092	9	20.93	18.94	7	9
24 Ophiuchi	E.	16 50 53.270	3	−22 59 40.67	41.40	3	3
κ Ophiuchi	W.	16 53 1.724	5	+ 9 31 38.66	38.10	5	5
	E.	1.702	9	37.88	39.22	9	9
ε Ursæ Min	W.	16 55 59.496	5	+82 11 54.88	56.56	5	5
	E.	59.626	12	56.97	56.33	9	12
ε Ursæ Min. S. P.	W.	16 55 59.524	5	+82 11 56.36	57.44	5	5
	E.	59.556	8	58.08	57.12	5	8
d Herculis	W.	16 57 59.216	5	+33 42 34.82	37.04	5	5
	E.	59.270	5	36.34	36.56	5	5
31 Ophiuchi	E.	16 58 41.683	3	−25 30 19.63	20.50	3	3
η Ophiuchi	E.	17 4 45.393	3	−15 36 14.00	14.80	3	2
A Ophiuchi	E.	17 9 19.170	1	−26 27 28.60	29.50	1	1
A Ophiuchi	E.	17 9 19.185	2	−26 27 32.55	34.05	2	2
α Herculis	E.	17 10 10.713	3	+14 30	6.47	.	3
π Herculis	E.	17 11 38.023	3	+36 55 9.87	9.83	3	3
θ Ophiuchi	E.	17 15 59.390	6	−24 54 6.77	8.22	3	6
b Ophiuchi	E.	17 20 23.078	6	−24 5 6.97	8.52	3	6
51 Ophiuchi	E.	17 25 26.085	2	−23 53 12.70	13.55	2	2
ξ Serpentis	E.	17 31 58.427	3	−15 20 13.10	13.87	3	3
ι Herculis	E.	17 36 41.910	1	+46 3	29.90	.	1
ω Draconis	E.	17 37 31.385	2	+68 48	10.60	.	2
ω Draconis S. P.	E.	17 37 31.333	3	+68 48	11.67	.	3
ψ^1 Draconis	E.	17 43 40.810	3	−72 11	49.20	.	3
ψ^1 Draconis S. P.	E.	17 43 40.737	3	+72 11	50.20	.	3

NAME.	CLAMP.	RIGHT ASCENSION 1902.0	NO. OBS.	DECLINATION 1902.0		NO. OBS.	
				A.	B.	A.	B.
		h m s		° ′ ″	″		
θ Herculis	E.	17 52 53.530	2	+37 15	47.00	.	2
35 Draconis....	E.	17 53 50.140	3	+76 58	32.17	.	3
35 Draconis S. P.	E.	17 53 50.053	3	+76 58	34.03	.	3
δ Ursæ Min....	E.	18 3 53.176	5	+86 36	47.50	.	5
δ Ursæ Min. S. P.	W. E.	18 3 53.892 53.470	4 9	+86 36 48.78 48.42	48.40 48.67	4 4	4 9
η Serpentis	E.	18 16 14.342	5	− 2 55	28.84	.	5
χ Draconis.....	E.	18 22 49.425	2	+72 41	25.95	.	2
χ Draconis S. P.	E.	18 22 49.415	2	+72 41	26.95	.	2
156 H¹. Draconis S. P.	E.	18 34 29.090	2	+77 28	15.85	.	2
50 Draconis S. P.	E.	18 49 32.260	1	+75 19	7.20	.	1
ζ Aquilæ	E.	19 0 54.320	2	+13 43	3.10	.	2
δ Draconis S. P.	W. E.	19 12 32.175 32.088	4 4	+67 29 22.40 21.72	22.30 22.68	4 4	4 4
λ Ursæ Min....	W. E.	19 20 12.958 13.740	6 2	+88 59 30.52 30.20	29.50 29.51	6 9	6 8
λ Ursæ Min. S. P.	W. E.	19 20 12.255 14.362	4 4	+88 59 30.11 28.83	30.25 30.27	8 9	8 9
κ Cephei S. P ..	W. E.	20 12 12.135 12.038	4 5	+77 24 60.05 59.10	58.22 58.98	4 5	4 5
φ Pegasi.......	E.	23 47 30.095	2	+18 34 33.40	.....	2	.

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